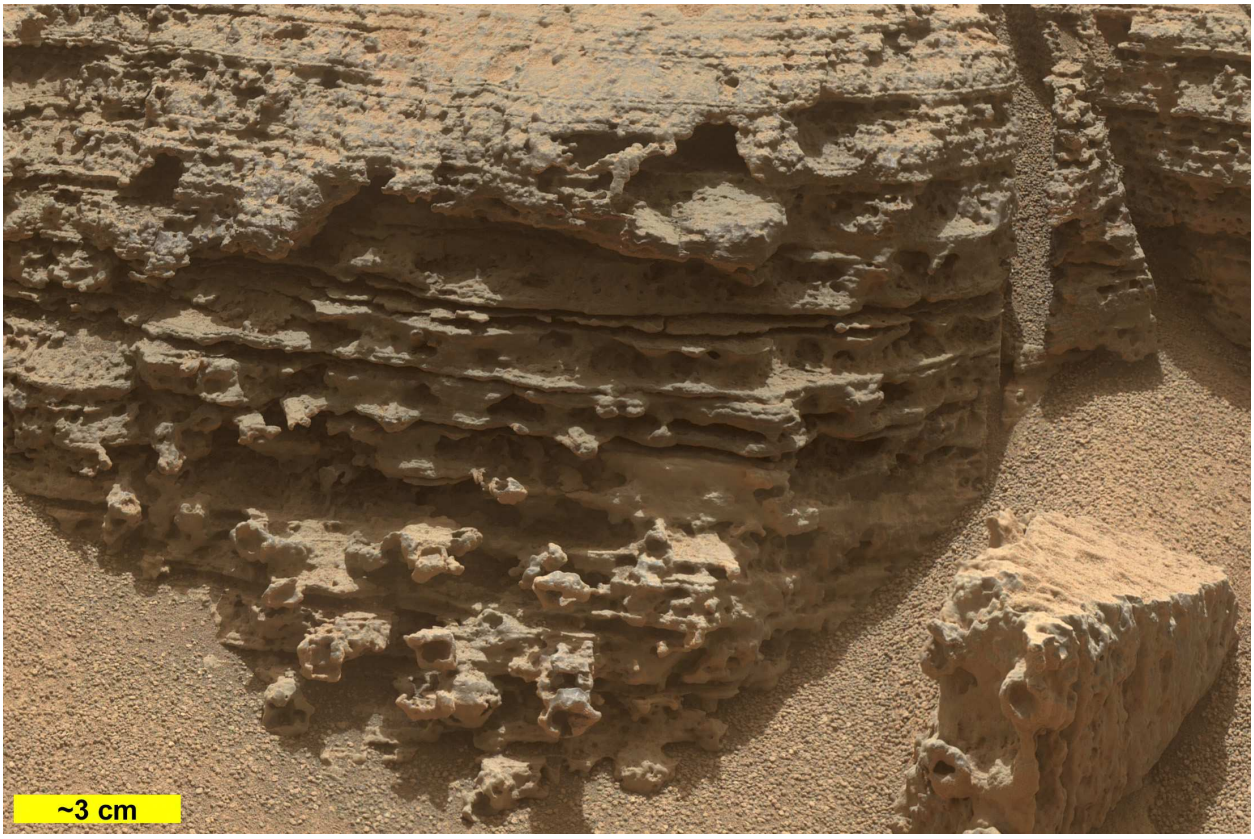
Curiosity's Mars Hand Lens Imager (MAHLI) Mars Science Laboratory (MSL) Principal Investigator's Notebook: Sols 3645–3778

R. Aileen Yingst, Michelle E. Minitti, Deirdra M. Fey, Joshua E. Huggett, C. Rodriguez Sanchez-Vahamonde

MSL MAHLI Technical Report 0034, version 1
30 November 2023



Citation: R. A. Yingst, M. E. Minitti, D. M. Fey, J. E. Huggett, C. Rodriguez Sanchez-Vahamonde (2023) Curiosity's Mars Hand Lens Imager (MAHLI) Mars Science Laboratory Principal Investigator's Notebook: Sols 3645–3778, version 1, *MSL MAHLI Technical Report 0034.* Zenodo. https://doi.org/10.5281/zenodo.10232015

Mars Science Laboratory (MSL) Mars Hand Lens Imager (MAHLI) Technical Report 0034

Cover photo

Six frame mosaic of MAHLI focus merge products showing a sandstone outcrop called Wapixana, located in the Marker Band region of lower Aeolis Mons. The images, illuminated by sunlight from the upper right, were acquired on Sol 3689 and merged on 3690.

Author affiliations

R. Aileen Yingst (MAHLI Principal Investigator)
Planetary Science Institute, Tucson, Arizona, USA

Michelle E. Minitti (MAHLI Deputy Principal Investigator)
Framework, Silver Spring, MD, USA

Deirdra M. Fey, Joshua E. Huggett, C. Rodriguez Sanchez-Vahamonde
Malin Space Science Systems, San Diego, California, USA

Contents

Abstract
1 Introduction
1.1 Introduction and purpose
1.2 Versions and change log
2 Instrument activities for this period
3 Helpful tips
3.1 MAHLI instrument and investigation
3.2 MAHLI image IDs
3.3 MAHLI LED positions
4 Camera range and scale information
4.1 Purpose and description
4.2 Formulae
4.2.1 Working distance
4.2.2 Standoff distance (RP distance; MAHLI toolframe +X distance)
4.2.3 Distance or range uncertainty estimate
4.2.4 Pixel scale
4.2.5 Pixel scale uncertainty estimate
4.2.6 Image dimensions estimate
5 Focus merge product information
5.1 Purpose and description
5.2 Formulae
5.2.1 Range
5.2.2 Range uncertainty estimate
5.2.3 Corresponding DN in range map product
5.2.4 Determination of which parent images participated in a given focus merge product (orange rows)
5.2.5 Camera working distance and standoff distance
6 Image comment, purpose, RATIONALE_DESC
7 Definitions, conventions, and acronyms
7.1 Definitions and conventions
7.2 Acronyms
Acknowledgements
References

Note that pages are not numbered in this document because all of the *Range and Scale Information Sheets*, *Focus Merge Product Information Sheets*, and *MAHLI Image Comment Sheets* were inserted separately after creation using a word processing tool that differs from the one used for the text.

Abstract

Covering the time between Curiosity's 3645th and 3778th Martian days (sols) of operations in northern Gale crater, Mars, this document is a compilation of the Mars Science Laboratory (MSL) Mars Hand Lens Imager (MAHLI) Team's notes and information about MAHLI images and activities conducted during that period. The report includes brief sol-by-sol notes—written as the mission unfolded—regarding how the MAHLI instrument was used and significant events that occurred which impacted the MAHLI instrument or investigation. The document, further, contains information regarding range and scale (camera working distance and scale of in-focus elements of an image); the parent images, range, and scale information associated with each MAHLI focus merge product created onboard the instrument; and a description of the purpose and intent behind acquisition of each MAHLI image and creation of each onboard focus merge product. The MSL science team and rover engineers routinely used the information contained in this report during the course of the mission for tactical planning, strategic planning, and scientific analysis.

1 Introduction

1.1 Introduction and purpose

This document is a compilation of the Mars Hand Lens Imager (MAHLI) Team's notes and information about MAHLI images and activities that occurred during the Mars Science Laboratory (MSL) mission between Sols 3645 and 3778.

MAHLI is a 2-megapixel color camera with a focusable macro lens mounted on the turret at the end of a robotic arm aboard NASA's MSL rover, Curiosity (Edgett *et al.* 2012). The rover landed and began operation in northern Gale crater, Mars, on 6 August 2012 (Vasavada *et al.* 2014).

Each *Curiosity's Mars Hand Lens Imager (MAHLI) Mars Science Laboratory (MSL) Principal Investigator's Notebook* covers a specific period corresponding to a release of MAHLI data to the NASA Planetary Data System (PDS) Imaging Node (**http://pds-imaging.jpl.nasa.gov/**). As some MAHLI data can arrive from Mars months or years after a given release period, the publication of these reports typically lags behind the PDS release schedule by a period that varies from one occasion to the next, depending largely on when data acquired during that period arrive on Earth and when we have time to complete the *Principal Investigator's Notebook* report.

This report, *Curiosity's Mars Hand Lens Imager (MAHLI) Mars Science Laboratory (MSL) Principal Investigator's Notebook: Sols 3645–3778*, corresponds to MAHLI data Release 33 in the NASA PDS archives. These are data acquired 06 November 2022 through 24 March 2023.

1.2 Versions and change log

The enclosed materials were compiled as the MSL mission unfolded. That being the case, we might sometimes have made errors. The reader should be aware that this report might be corrected via release of a new version in the future.

A new version would also be created if new data from this report's period (Martian sols) are received from the instrument after an earlier version has been made available. This can occur because MAHLI can store data onboard the instrument for an indefinite period of time after acquisition. As a result, images are archived with the NASA PDS on the basis of when they are received on Earth, not when they are acquired on Mars.

Covering the Sol 3645 through 3778 period, this document is Version 1.

If this were a later version, this section would document the changes made relative to the previous.

2 Instrument activities for this period

This section captures day-by-day or sol-by-sol notes written by the MAHLI Team, as the mission unfolded, regarding how the MAHLI instrument was used or significant events that occurred which impacted the MAHLI instrument or investigation.

MAHLI Activities During Sols 3645 – 3778						
milestone or field site	**date (UTC)**	**Sol**	**camera positions**	**Parent images**	**Onboard focus merges**	**Notes**
On the Amapari Marker Band	07 Nov 22	**3645**	0	0	19	Focus stack images from Sol 3644 were merged.
	08 Nov 22	**3646**	6	50	4	MAHLI imaged the targets Acara and Ixi. The focus stack images were also merged.
Heading west towards the Gediz Vallis ridge	10 Nov 22	**3648**	7	61	5	MAHLI imaged the DRT-brushed target Cana and the target Dalbana. The focus stack images were also merged.
	12 Nov 22	**3650**	12	84	0	MAHLI imaged the target Jutai and the DRT-brushed Raposa.
	13 Nov 22	**3651**	0	0	7	Focus stack images from Sol 3650 were merged.
	19 Nov 22/ 20 Nov 22	**3657**	8	72	6	MAHLI imaged the DRT-brushed targets Rio_Jufari and Lua. The focus stack images were also merged.
Heading back east towards the Amapari Drill site on the Amapari Marker Band	20 Nov 22	**3658**	20	20	0	MAHLI imaged ≥ 360° of the 3 left wheels and right front wheel.
	27 Nov 22	**3664**	7	59	0	MAHLI imaged the target Los_Tranques and the DRT-brushed target Poraque.
	27 Nov 22	**3665**	4	36	13	Focus stack images from Sol 3664 were merged. MAHLI also imaged the DRT-brushed target Los_Tranques and the corresponding focus stack images for the DRT-brushed target Los_Tranques were merged on this sol as well.
	29 Nov 22/ 30 Nov 22	**3667**	4	36	3	MAHLI imaged the DRT-brushed target Flecha and the focus stack images were merged.
Heading back east towards the Amapari Drill site on the Amapari Marker Band	02 Dec 22	**3669**	0	0	6	The focus stack images from Sol 3667 were merged again; this happened because a fault occurred onboard the rover that prevented acquisition and merge of new MAHLI data planned for the DRT-brushed target Roxinho.
	04 Dec 22	**3671**	13	88	0	MAHLI imaged the DRT-brushed targets Roxinho (brushed on Sol 3669) and Shabono (brushed on this sol). At night, MAHLI imaged inside the CheMin inlet for cleanliness.
	05 Dec 22	**3672**	0	0	7	Focus stack images from Sol 3671 were merged.
At the Amapari and Amapari2 Drill Site on the Amapari Marker Band	07 Dec 22	**3674**	10	67	5	MAHLI imaged the intended drill target Amapari before and after DRT and after a drill bit preload test. MAHLI also imaged the target Orocaima. The focus stack images were merged as well.
	09 Dec 22	**3676**	1	2	0	Drill preparation activities at the planned Amapari sample extraction site. MAHLI imaged the intended site for the Amapari sample discard pile.
	10 Dec 22	**3677**	8	53	4	MAHLI imaged the intended drill target Amapari2 before and after DRT and after a drill bit preload test. The focus stack images were also merged.
	15 Dec 22	**3682**	8	48	4	MAHLI imaged the attempted (Sol 3676) Amapari drill hole, the attempted (Sol 3680) Amapari2 drill hole, and the Amapari2 drill cuttings. The focus stack images were merged as well.

MAHLI Activities During Sols 3645 – 3778						
milestone or field site	**date (UTC)**	**Sol**	**camera positions**	**Parent images**	**Onboard focus merges**	**Notes**
At the Amapari and Amapari2 Drill Site on the Amapari Marker Band	17 Dec 22	**3684**	12	86	0	MAHLI imaged the sky, with the dust cover open and closed for flat fielding, as well as the target Urutanim, the Amapari attempted drill hole cuttings and the target Jundia.
	18 Dec 22	**3685**	1	2	0	MAHLI imaged the attempted (Sol 3676) Amapari drill hole.
Exiting off the Amapari Marker Band	20 Dec 22	**3687**	0	0	6	Focus stack images from Sol 3684 were merged.
At the edge of the Amapari Marker Band	21 Dec 22	**3688**	6	52	5	MAHLI acquired a 3x1 mosaic on the target Tucuxuma and imaged the target Tamandua. The focus stack images were merged as well.
	22 Dec 22	**3689**	10	84	0	MAHLI acquired a 3x2 mosaic on Wapixana. MAHLI also imaged the target Truaru and the REMS UV Sensor.
Heading towards the Encanto Drill Site on the Amapari Marker Band	23 Dec 22	**3690**	0	0	8	Focus stack images from Sol 3689 were merged.
Heading towards the Encanto Drill Site on the Amapari Marker Band	01 Jan 23	**3699**	7	61	0	MAHLI imaged the targets Corume and Mapuera.
	02 Jan 23	**3700**	1	3	5	MAHLI imaged the targets Corume and Mapuera and the Sol 3699 focus stack images were merged.
	05 Jan 23	**3702**	9	62	0	MAHLI imaged the target Anarem and the DRT-brushed target Uafaranda.
	05 Jan 23	**3703**	0	0	5	Focus stack images from Sol 3702 were merged.
	08 Jan 23	**3705**	9	62	0	MAHLI imaged the DRT-brushed target Waimiri and the target Caroebe.
	09 Jan 23	**3706**	0	0	5	Focus stack images from Sol 3705 were merged.
	11 Jan 23	**3708**	4	36	3	MAHLI imaged the DRT-brushed target Jenipapo and the focus stack images were merged.
	15 Jan 23	**3712**	13	82	0	MAHLI imaged the DRT-brushed targets Paredao and Curupira.
	17 Jan 23	**3714**	0	0	6	Focus stack images from 3712 were merged.
	18 Jan 23	**3715**	4	36	3	MAHLI imaged the DRT-brushed target Tarra and the focus stack images were merged.
At the Encanto Drill Site on the Amapari Marker Band	19 Jan 23	**3716**	8	53	4	MAHLI imaged the intended drill target Encanto before and after DRT and after a drill bit preload test. The focus stack images were also merged.
	21 Jan 23	**3718**	2	4	0	Drill preparation activities at the planned Encanto sample extraction site. MAHLI imaged the intended site for the Encanto sample discard pile.
	24 Jan 23	**3721**	5	34	3	MAHLI imaged the attempted (Sol 3718) Encanto drill hole and the Encanto drill cuttings. The focus stack images were merged as well.
Heading South on the Amapari Marker Band	26 Jan 23	**3723**	10	92	0	MAHLI imaged the targets El_Descanso and Peters_Mine. MAHLI also acquired a 4x1 mosaic on the target Semang_Peak.
	27 Jan 23	**3724**	0	0	9	Focus stack images from Sol 3723 were merged.
	28 Jan 23	**3725**	8	64	0	MAHLI imaged the targets Curare and Cururu on the boulder named Cacao.
	30 Jan 23	**3727**	0	0	6	Focus stack images from Sol 3725 were merged.
	31 Jan 23	**3728**	3	22	2	MAHLI imaged the target Primavera and the focus stack images were merged.
Heading South on the Amapari Marker Band	02 Feb 23	**3730**	6	50	4	MAHLI imaged the targets Alasca and Alegria. The focus stack images were also merged.

MAHLI Activities During Sols 3645 – 3778						
milestone or field site	**date (UTC)**	**Sol**	**camera positions**	**Parent images**	**Onboard focus merges**	**Notes**
Heading towards the Dinira Drill Site on the Amapari Marker Band	04 Feb 23	**3732**	7	54	0	MAHLI imaged the targets Pasamoni and Paraiso.
	05 Feb 23	**3733**	0	0	5	Focus stack images from Sol 3732 were merged.
Heading towards the Dinira Drill Site on the Amapari Marker Band	07 Feb 23	**3735**	6	44	4	MAHLI imaged the targets Pico_Espejo and Uatatas. The focus stack images were also merged.
At the Dinira Drill Site on the Amapari Marker Band	09 Feb 23/ 10 Feb 23	**3737**	8	53	4	MAHLI imaged the intended drill target Dinira before and after DRT and after a drill bit preload test. The focus stack images were also merged.
	11 Feb 23/ 12 Feb 23	**3739**	9	76	7	MAHLI imaged the DRT-brushed target Yakarinta as well as the targets Itu and Uraricaa. The focus stack images were also merged.
	14 Feb 23	**3742**	2	4	0	Drill preparation activities at the planned Dinira sample extraction site. MAHLI imaged the intended site for the Dinira sample discard pile.
	16 Feb 23/ 17 Feb 23	**3744**	5	34	3	MAHLI imaged the attempted (Sol 3742) Dinira drill hole and the Dinira drill cuttings. The focus stack images were merged as well.
Heading toward the Tapo_Caparo Drill Site on the Amapari Marker Band	19 Feb 23	**3746**	8	72	0	MAHLI imaged the targets Cunucunuma and Tres_Bocas.
	21 Feb 23	**3748**	0	0	6	Focus stack images from Sol 3746 were merged.
	22 Feb 23	**3749**	7	69	6	MAHLI imaged the targets Santana and Soledad. The focus stack images were also merged.
At the Tapo_Caparo Drill Site on the Amapari Marker Band	23 Feb 23	**3750**	6	49	4	MAHLI imaged the intended drill target Tapo_Caparo after DRT and after a drill bit preload test. The focus stack images were also merged.
	25 Feb 23	**3752**	1	2	0	Drill preparation activities at the planned Tapo_Caparo sample extraction site. MAHLI imaged the intended site for the Tapo_Caparo sample discard pile.
At the Tapo_Caparo Drill Site on the Amapari Marker Band	12 Mar 23	**3767**	3	14	1	MAHLI imaged the Tapo_Caparo drill hole and cuttings. The focus stack images were also merged.
	14 Mar 23/ 15 Mar 23	**3769**	7	57	5	MAHLI imaged the targets Tucupita and Mariapiri. The focus stack images were also merged.
	15 Mar 23	**3770**	1	2	0	MAHLI imaged the Tapo_Caparo drill hole and cuttings.
	16 Mar 23	**3771**	3	22	2	MAHLI imaged the target Tamanaco and the focus stack images were merged.
Heading towards the Ubajara Drill Site	18 Mar 23/ 19 Mar 23	**3773**	16	152	0	MAHLI imaged the DRT-brushed targets San_Rafael and San_Francisco_de_Yuruani. MAHLI also acquired an 1x8 mosaic on Santa_Elena_de_Uairen.
	19 Mar 23	**3774**	0	0	14	Focus stack images from Sol 3773 were merged.
	21 Mar 23/ 22 Mar 23	**3776**	4	32	3	MAHLI imaged the target Rio_Urubu and the focus stack images were merged.
	23 Mar 23/ 24 Mar 23	**3778**	5	35	3	MAHLI imaged the REMS UV Sensor and the DRT-brushed target Marabitana. The focus stack images were also merged.

3 Helpful tips

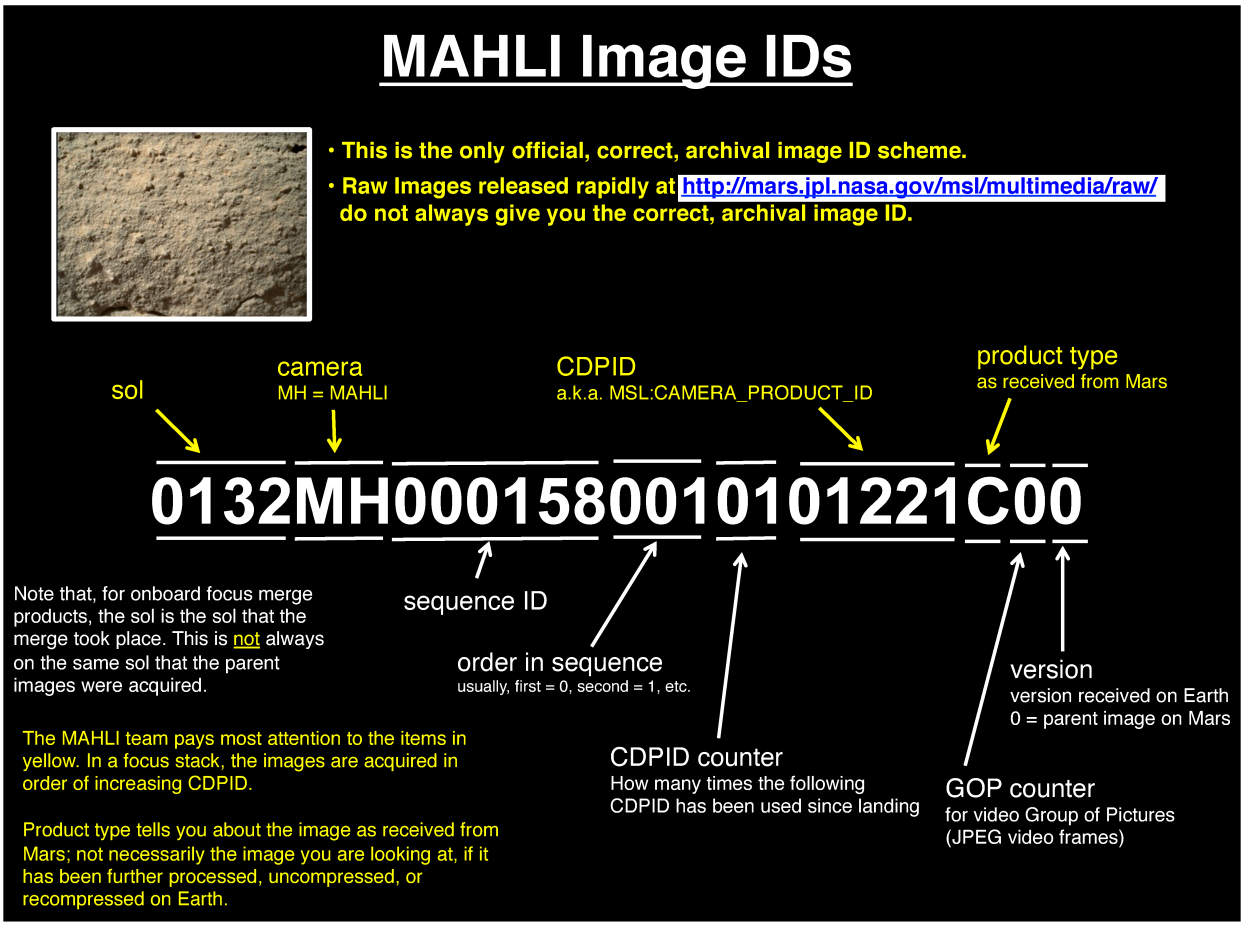
3.1 MAHLI instrument and investigation

Please refer to Edgett *et al.* (2012) for a description of the MAHLI instrument and investigation, Edgett *et al.* (2015) for information about the characterization and calibration of the instrument, and Yingst *et al.* (2016) for some of the lessons learned after ~1.5 Mars years of surface operations. Additional information on how the instrument and data have been used is in the paper by Minitti *et al.* (2013) and the extended abstract by Garvin *et al.* (2017).

3.2 MAHLI image IDs

MAHLI images and onboard focus merge products are identified by their image IDs. The following figure describes the information content of these IDs.

Note that raw images released within minutes of receipt on Earth to the public via the JPL-Caltech web site (**http://mars.jpl.nasa.gov/msl/multimedia/raw/**) do not necessarily have the correct, final, archival image IDs.



The NASA PDS archives include documentation that describes the MAHLI image ID and file naming scheme and the nature of the archived Experiment Data Record (EDR) and Reduced Data Record (RDR) products (Malin *et al*., 2013).

The EDR products, the raw data product, have the following file name scheme:

1 **[Image ID]_XXXX** – these are always 8-bit images except for the 16-bit products (type A) returned from MAHLI for calibration purposes.

The RDR products are of the following nature:

2 **[Image ID]_DRXX** – 16-bit depth (per band) relative radiometric calibrated color images,

3 **[Image ID]_DRLX** – 16-bit depth (per band) relative radiometric calibrated and geometric calibrated color images,

4 **[Image ID]_DRCX** – 8-bit relative radiometric calibrated images for which a color correction has been applied, and

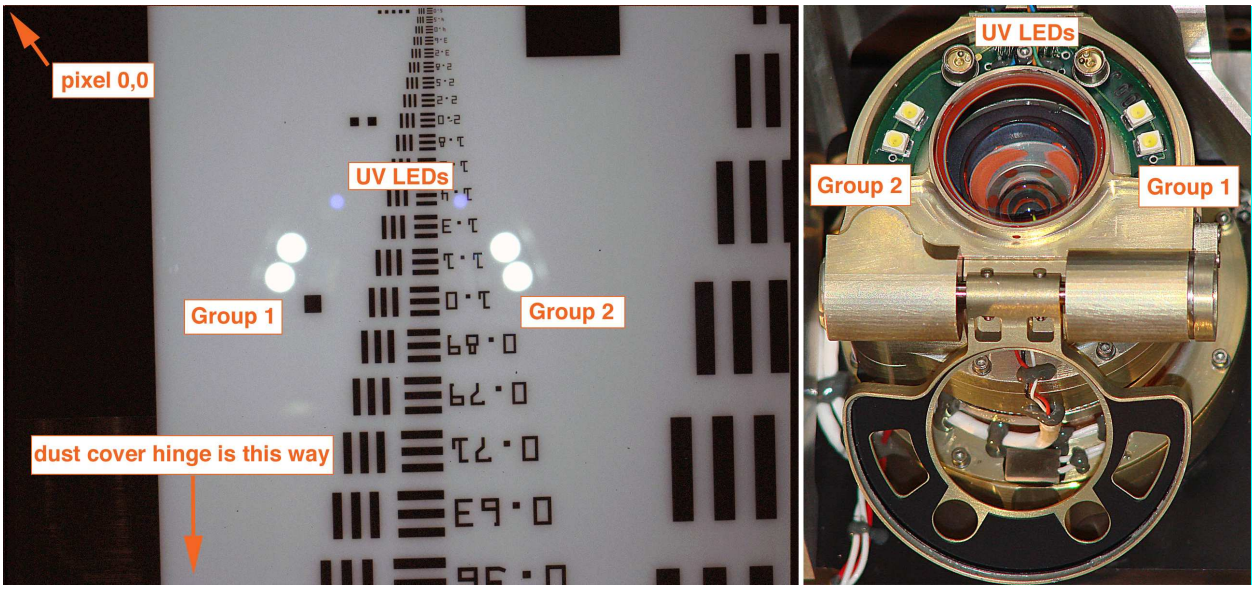
5 **[Image ID]_DRCL** – 8-bit relative radiometric and geometric calibrated images for which a color correction has been applied.

The following table describes the variety of image types (raw, lossless, JPEG, focus merge, thumbnail, *etc.*). Malin *et al.* (2013) described these in greater detail.

product type	product format
A	raster 16-bit image
B	raster 8-bit image
C	lossless compressed image
D	JPEG grayscale image
E	JPEG 4:2:2 color image
F	JPEG 4:4:4 color image
G	raster thumbnail of parent image
H	JPEG gray thumbnail of parent image
I	JPEG 4:4:4 thumbnail of parent image
J	raster 8-bit video frame
K	lossless compressed video frame
L	JPEG grayscale video frame
M	JPEG 4:2:2 color video frame
N	JPEG 4:4:4 color video frame
O	raster 8-bit thumbnail of video frame
P	JPEG gray thumbnail of video frame
Q	JPEG 4:4:4 thumbnail of video frame
R	focus merge best focus image product
S	focus merge range map product
T	focus merge best focus thumbnail
U	focus merge range map thumbnail
Types R and T are JPEG 4:4:4; S and U are JPEG grayscale products.	

3.3 MAHLI LED positions

The MAHLI camera head has two groups of two white light LEDS (Edgett *et al.* 2012), called Group 1 and Group 2. For reference, the figure below shows their location on the camera head and how these locations translate to positions relative to pixel 0,0 (column 0, row 0) on the MAHLI CCD. In addition, MAHLI has two 365 nm ultraviolet (UV) LEDs, also shown in the figure. Each group of two LEDs (Group 1, Group 2, and UV) can be operated together or independently with each of the other two groups. When the LEDs are used, which group was operated is reported in the RATIONALE_DESC description of the image intent and purpose (**Section 6**).



MAHLI image TVC_MH0809080020000032B00, left, shows the violet and white reflections of the UV and Group 1 and Group 2 white light LEDs, indicating their location in relation to the CCD's pixel at column 0, row 0. The photograph on the right shows the camera head with its dust cover open and LEDs labeled.

4 Camera range and scale information

4.1 Purpose and description

MAHLI *Range and Scale Information Sheets* (or "Distance and Scale Information Sheets") describe **(a)** the distance between the MAHLI camera and an imaged target, and **(b)** the scale of in-focus features in the image, based on knowledge of that distance. Usually, these are determined using the camera's stepper motor count focus position (Edgett *et al.* 2015).

These information sheets were created only for cases in which there was a need. Cases for which they are not usually created include those when the only MAHLI image(s) acquired on a given sol are **(a)** views of the landscape, focused at infinity; **(b)** intended to make a rover self-portrait mosaic; **(c)** sky flat field calibration data; or **(d)** routinely-acquired images of the rover wheels for inspection purposes.

For the Sol 3645–3778 period, *Range and Scale Information Sheets* were created for the following **Sols: 3646, 3648, 3650, 3657, 3658, 3664, 3665, 3667, 3671, 3674, 3676, 3677, 3682, 3684, 3685, 3688, 3689, 3699, 3700, 3702, 3705, 3708, 3712, 3715, 3716, 3718, 3721, 3723, 3725, 3728, 3730, 3732, 3735, 3737, 3739, 3742, 3744, 3746, 3749, 3750, 3752, 3767, 3769, 3770, 3771, 3773, 3776, 3778**.

The origin of the MAHLI *Range and Scale Information Sheets* was in the need for a rapid, tactical response from the MAHLI team to the Curiosity Rover Planners—the engineers tasked with operating the rover's mobility and robotic arm systems—for range-finding and image scale information derived from MAHLI's autofocus and focus merge capabilities. As described by Minitti *et al.* (2013), during the rover's first sample extraction campaign, conducted at the Rocknest eolian sand deposit in October–November 2012, the engineers elected to use MAHLI autofocus sub-frames to confirm their estimates of the range to the sand surface for subsequent scoop placement (Anderson *et al.* 2015). These *Range and Scale Information Sheets* were borne of that effort to provide the information almost as soon as the data arrived on Earth.

Presented in this section are the latest versions of the *Range and Scale Information Sheets*, for the above stated sols, as of the date of this *MAHLI Technical Report* publication. Most of these sheets were actively used during the MSL mission for tactical and strategic planning, as well as for the scientific analyses. Note that some of the sheets exhibit slightly different formatting from each other, as the formatting and content evolved over time.

The image IDs presented in these Information Sheets are the identifiers of the best, least-compressed version of the image received from Mars for a given camera position for the stated purpose (autofocus, imaging, range-finding, etc.). In cases for which only a thumbnail version of the image was received, the image ID is colored orange.

4.2 Formulae

4.2.1 Working distance

The working distance (d_w, in centimeters) presented in the *Range and Scale Information Sheets* was computed from the empirical relationship between working distance and motor count for the flight unit MAHLI when the dust cover is open (m_{open}) described by Edgett *et al.* (2015):

$$d_w = (a m_{open}^{-1} + b + c m_{open} + d m_{open}^{2} + e m_{open}^{3})^{-1}, \quad (1)$$

in which $a = 0.576786$, $b = -11.8479$, $c = 2.80153\times10^{-3}$, $d = -2.266488\times10^{-7}$, and $e = 6.26666\times10^{-12}$.

For the dust cover closed case (m_{closed}), Edgett *et al.* (2015) found that m_{closed} is related to m_{open} as follows:

$$m_{closed} = 17075 - m_{open}. \quad (2)$$

4.2.2 Standoff distance (RP distance; MAHLI toolframe +X distance)

The standoff distance (d_s, in centimeters) presented in the *Range and Scale Information Sheets* is 1.9 cm less than the MAHLI working distance (Edgett *et al.* 2015). Note that "standoff distance" is equivalent to "RP distance" and "MAHLI toolframe +X distance"; see **Section 7.1**). It is determined by subtracting 1.9 cm from the working distance (d_w) computed from motor count:

$$d_s = d_w - 1.9 \text{ cm} \quad (3)$$

4.2.3 Distance or range uncertainty estimate

Estimation approach applied to the Sol 0–945 *Range and Scale Information Sheets*

For the Sol 0–945 period (except Sol 687), the uncertainty in distance (whether expressed as d_w or d_s) was estimated using an early version of our team's understanding (Edgett *et al.* 2013) of the flight unit MAHLI depth of field (DOF; d_{old_DOF}, in centimeters) as a function of working distance (d_w).

The method for estimating the far range of the DOF, d_{old_far}, was:

$$d_{old_far} = a d_w^{5} - b d_w^{4} + c d_w^{3} + d d_w^{2} + e d_w - f \quad (4)$$

in which $a = 2.067963396\times10^{-10}$, $b = 5.81503025785\times10^{-8}$, $c = 1.55563715379086\times10^{-5}$, $d = 1.78558768966003\times10^{-3}$, $e = 7.87243271888297\times10^{-3}$, and $f = 3.57047935299353\times10^{-2}$.

The method for estimating the near range of the DOF, d_{old_near}, was:

$$d_{old_near} = -(a d_w^{5} + b d_w^{4} - c d_w^{3} + d d_w^{2} - e d_w + f) \quad (5)$$

in which $a = -9.6497783\times10^{-12}$, $b = 1.06050131902\times10^{-8}$, $c = 5.8615047292452\times10^{-6}$, $d = 2.42284468424977\times10^{-3}$, $e = 4.28714139095939\times10^{-3}$, and $f = 7.534391000189\times10^{-4}$.

The MAHLI *Range and Scale Information Sheets* added the absolute values of the near and far DOF, then divided by two, to provide an overall uncertainty, ± d_{old_DOF}, in centimeters:

$$\pm d_{old_DOF} = ((-d_{old_near}) + d_{old_far})/2 \quad (6)$$

The ± d_{old_DOF} estimate was sufficient for using MAHLI as a range finder for subsequent scoop placement during the Rocknest sample extraction campaign (Minitti *et al.* 2013; Anderson *et al.* 2015).

Improved estimation method, used for Sol 687 and after Sol 945 *Range and Scale Information Sheets*

Later analysis refined our DOF estimate (Edgett *et al.* 2015), but these results arrived too late to be incorporated into most of the Sol 0–945 *Range and Scale Information Sheets*. That said, for small working distances (*e.g.*, < 20 cm), the results are about the same. As a function of dust cover open focus motor count (m_{open}), the near (d_{near}) and far (d_{far}) depth of field can be expressed, in centimeters, as:

$$d_{near} \text{ or } d_{far} = (a m_{open}^{-1} + b + c m_{open} + d m_{open}^{2} + e m_{open}^{3})^{-1}, \quad (7)$$

in which, for d_{near}, a = 1.03565, b = –11.9083, c = 2.82403×10^{-3}, d = -2.29003×10^{-7}, and e = 6.34332×10^{-12}; and, for d_{far}, a = 1.03438, b = –11.4118, c = 2.69297×10^{-3}, d = -2.17752×10^{-7}, and e = 6.02494×10^{-12}.

4.2.4 Pixel scale

The estimated pixel scale (p, in µm per pixel) is based on working distance (d_w) and applies only to the in-focus portions of a given image. We estimate the scale from the working distance (d_w) as described by Edgett *et al.* (2012):

$$p = 6.9001 + 3.5201 d_w. \quad (8)$$

4.2.5 Pixel scale uncertainty estimate

No estimation applied to the Sol 0–998 range and scale information sheets

No estimate of pixel scale uncertainty was applied to the MAHLI *Range and Scale Information Sheets* until Sol 999.

Estimation approach

Pixel scale uncertainty (p_{far}, p_{near}, ± $p_{uncertainty}$, in µm per pixel) can be estimated based on the depth of field (d_{far}, d_{near}, in centimeters; **Equation 7**) and pixel scale (p, in µm per pixel, **Equation 8**) as determined from working distance (d_w, in centimeters; **Equation 1**). The uncertainty applies only to the in-focus portions of a given image. The uncertainty can be estimated as follows (please round ± $p_{uncertainty}$ to the nearest 0.1 µm per pixel):

$$p_{far} = (6.9001 + 3.5201(d_w + d_{far})) - p, \quad (9)$$

$$p_{near} = p - (6.9001 + 3.5201(d_w + d_{near})), \text{ and} \quad (10)$$

$$\pm p_{uncertainty} = (p_{far} + p_{near})/2. \quad (11)$$

4.2.6 Image dimensions estimate

The image dimension estimates described in the MAHLI *Range and Scale Information Sheets* are computed by multiplying the estimated pixel scale (p) by the number of horizontal (columns) and vertical (rows) covered by the image. This simplistic approach, of course, assumes that the target is a plane parallel to the CCD.

UPDATED: 24_August_2023

SOL 3646 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Acara													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3646MH0007060011301801C00	1801	13039	25.2	23.3	–1.6	1.8	95.8	6.0	1608	1198	15.4	11.5
mhli00858	INTERMEDIATE-RESOLUTION STEREO-1	INTENDED STANDOFF – 10 cm											
	3646MH0008580011301804C00	1804	13594	10.5	8.6	–0.3	0.3	44.0	1.1	1608	1198	7.1	5.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3646MH0001530001301856R00				*RANGE MAP PRODUCT:*		3646MH0001530001301857S00			
mhli00858	INTERMEDIATE-RESOLUTION STEREO-2	INTENDED STANDOFF – 10 cm											
	3646MH0008580011301815C00	1815	13596	10.5	8.6	–0.3	0.3	43.9	1.1	1608	1198	7.1	5.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3646MH0001530001301854R00				*RANGE MAP PRODUCT:*		3646MH0001530001301855S00			
target named Ixi													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3646MH0007060011301826C00	1826	13029	25.8	23.9	–1.7	1.9	97.8	6.3	1608	1198	15.7	11.7
mhli00852	INTERMEDIATE-RESOLUTION STEREO-1	INTENDED STANDOFF – 10 cm											
	3646MH0008520011301829C00	1829	13565	10.9	9.0	–0.3	0.3	45.4	1.2	1608	1198	7.3	5.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3646MH0001530001301852R00				*RANGE MAP PRODUCT:*		3646MH0001530001301853S00			
mhli00852	INTERMEDIATE-RESOLUTION STEREO-2	INTENDED STANDOFF – 10 cm											
	3646MH0008520011301840C00	1840	13565	10.9	9.0	–0.3	0.3	45.4	1.2	1608	1198	7.3	5.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3646MH0001530001301850R00				*RANGE MAP PRODUCT:*		3646MH0001530001301851S00			

UPDATED: 24_August_2023

SOL 3648 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Cana – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3648MH0007060011301859C00	1859	13025	26.0	24.1	–1.7	1.9	98.6	6.4	1608	1198	15.9	11.8
mhli00699	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3648MH0006990011301862C00	1862	14109	6.2	4.3	–0.1	0.1	28.7	0.5	1608	1198	4.6	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3648MH0002270001301927R00				*RANGE MAP PRODUCT:*	3648MH0002270001301928S00				
mhli00699	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3648MH0006990011301873C00	1873	14110	6.2	4.3	–0.1	0.1	28.6	0.5	1608	1198	4.6	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3648MH0002270001301925R00				*RANGE MAP PRODUCT:*	3648MH0002270001301926S00				
mhli00823	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3648MH0008230011301884C00	1884	15534	2.1	0.2	0.0	0.0	14.4	0.1	1608	1198	2.3	1.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3648MH0002270001301923R00				*RANGE MAP PRODUCT:*	3648MH0002270001301924S00				
target named Dalbana													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3648MH0007060011301895C00	1895	13033	25.6	23.7	–1.7	1.9	96.9	6.2	1608	1198	15.6	11.6
mhli00721	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3648MH0007210011301898C00	1898	14170	5.8	3.9	–0.1	0.1	27.5	0.4	1608	1198	4.4	3.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3648MH0002270001301921R00				*RANGE MAP PRODUCT:*	3648MH0002270001301922S00				
mhli00721	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3648MH0007210011301909C00	1909	14187	5.8	3.9	–0.1	0.1	27.2	0.4	1608	1198	4.4	3.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3648MH0002270001301919R00				*RANGE MAP PRODUCT:*	3648MH0002270001301920S00				

UPDATED: 24_August_2023

SOL 3650 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Jutai													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3650MH0001900011301930C00	1930	13020	26.3	24.4	–1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00182	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3650MH0001820011301932C00	1932	14001	6.8	4.9	–0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3651MH0001710001302025R00				*RANGE MAP PRODUCT:*	3651MH0001710001302026S00				
mhli00182	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3650MH0001820011301942C00	1942	13998	6.9	5.0	–0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3651MH0001710001302023R00				*RANGE MAP PRODUCT:*	3651MH0001710001302024S00				
mhli00184	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	APXS RASTER SPOT 2												
	3650MH0001840011301952C00	1952	14696	3.8	1.9	–0.1	0.1	20.3	0.3	1608	1198	3.3	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3651MH0001710001302021R00				*RANGE MAP PRODUCT:*	3651MH0001710001302022S00				
mhli00182	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3650MH0001820011301962C00	1962	14010	6.8	4.9	–0.2	0.2	30.8	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3651MH0001710001302019R00				*RANGE MAP PRODUCT:*	3651MH0001710001302020S00				
target named Raposa – after DRT – quantitative relief model (QRM) data													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3650MH0007060011301972C00	1972	13021	26.3	24.4	–1.7	2.0	99.4	6.5	1608	1198	16.0	11.9
mhli00763	MED RES – STEREO-2 & RELIEF MODEL POSITIO	INTENDED STANDOFF – 5 cm											
	3650MH0007630011301975C00	1975	14006	6.8	4.9	–0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3651MH0001710001302017R00				*RANGE MAP PRODUCT:*	3651MH0001710001302018S00				
mhli00763	MED RES – STEREO-2 & RELIEF MODEL POSITIO	INTENDED STANDOFF – 5 cm											
	3650MH0007630011301986C00	1986	14011	6.8	4.9	–0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3651MH0001710001302015R00				*RANGE MAP PRODUCT:*	3651MH0001710001302016S00				
mhli00705	MED RES – RELIEF MODEL POSITION 3	INTENDED STANDOFF – 5 cm											
	3650MH0007050011301997C00	1997	14003	6.8	4.9	–0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
mhli00705	MED RES – RELIEF MODEL POSITION 4	INTENDED STANDOFF – 5 cm											
	3650MH0007050011301999C00	1999	13998	6.9	5.0	–0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
mhli00705	MED RES – RELIEF MODEL POSITION 5	INTENDED STANDOFF – 5 cm											
	3650MH0007050011302001C00	2001	14005	6.8	4.9	–0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
mhli00824	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3650MH0008240011302003C00	2003	14695	3.8	1.9	–0.1	0.1	20.3	0.3	1608	1198	3.3	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3651MH0001710001302013R00				*RANGE MAP PRODUCT:*	3651MH0001710001302014S00				

UPDATED: 24_August_2023

SOL 3657 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Rio_Jufari – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3657MH0007060011302028C00	2028	13020	26.3	24.4	–1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00699	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3657MH0006990011302031C00	2031	14031	6.6	4.7	–0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3657MH0001630001302109R00					*RANGE MAP PRODUCT:*	3657MH0001630001302110S00				
mhli00699	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3657MH0006990011302042C00	2042	14033	6.6	4.7	–0.2	0.1	30.2	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3657MH0001630001302107R00					*RANGE MAP PRODUCT:*	3657MH0001630001302108S00				
mhli00800	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3657MH0008000011302053C00	2053	14749	3.6	1.7	–0.1	0.1	19.7	0.2	1608	1198	3.2	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3657MH0001630001302105R00					*RANGE MAP PRODUCT:*	3657MH0001630001302106S00				
target named Lua – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3657MH0007060011302064C00	2064	13018	26.5	24.6	–1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00834	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3657MH0008340011302067C00	2067	14015	6.7	4.8	–0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3657MH0001630001302103R00					*RANGE MAP PRODUCT:*	3657MH0001630001302104S00				
mhli00834	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3657MH0008340011302078C00	2078	14018	6.7	4.8	–0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3657MH0001630001302101R00					*RANGE MAP PRODUCT:*	3657MH0001630001302102S00				
mhli00732	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3657MH0007320011302089C00	2089	14722	3.7	1.8	–0.1	0.1	20.0	0.3	1608	1198	3.2	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3657MH0001630001302099R00					*RANGE MAP PRODUCT:*	3657MH0001630001302100S00				

UPDATED: 24_August_2023

SOL 3658 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
rover wheel inspection – top view, looking down on wheels – full wheel inspection, position 1 of 5 (performed on sol 3658)													
mhli00769	LEFT (PORT) REAR WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~170 cm											
	3658MH0007690011302111E01	2111	12618	~172	~170	~−0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	LEFT (PORT) MIDDLE WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~112 cm											
	3658MH0007700011302112E01	2112	12660	~114	~112	~−28	~50	~408	~137	1608	1198	~65	~49
mhli00771	LEFT (PORT) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~135 cm											
	3658MH0007710011302113E01	2113	12642	~137	~135	~−38	~82	~489	~210	1608	1198	~78	~59
mhli00772	RIGHT (STARBOARD) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~124 cm											
	3658MH0007720011302114E01	2114	12648	~126	~124	~−32	~67	~450	~175	1608	1198	~72	~54
rover wheel inspection – top view, looking down on wheels – full wheel inspection, position 2 of 5 (performed on sol 3658)													
mhli00769	LEFT (PORT) REAR WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~170 cm											
	3658MH0007690011302115E01	2115	12618	~172	~170	~−0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	LEFT (PORT) MIDDLE WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~112 cm											
	3658MH0007700011302116E01	2116	12660	~114	~112	~−28	~50	~408	~137	1608	1198	~65	~49
mhli00771	LEFT (PORT) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~135 cm											
	3658MH0007710011302117E01	2117	12642	~137	~135	~−38	~82	~489	~210	1608	1198	~78	~59
mhli00772	RIGHT (STARBOARD) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~124 cm											
	3658MH0007720011302118E01	2118	12648	~126	~124	~−32	~67	~450	~175	1608	1198	~72	~54
rover wheel inspection – top view, looking down on wheels – full wheel inspection, position 3 of 5 (performed on sol 3658)													
mhli00769	LEFT (PORT) REAR WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~170 cm											
	3658MH0007690011302119E01	2119	12618	~172	~170	~−0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	LEFT (PORT) MIDDLE WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~112 cm											
	3658MH0007700011302120E01	2120	12660	~114	~112	~−28	~50	~408	~137	1608	1198	~65	~49
mhli00771	LEFT (PORT) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~135 cm											
	3658MH0007710011302121E01	2121	12642	~137	~135	~−38	~82	~489	~210	1608	1198	~78	~59
mhli00772	RIGHT (STARBOARD) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~124 cm											
	3658MH0007720011302122E01	2122	12648	~126	~124	~−32	~67	~450	~175	1608	1198	~72	~54
rover wheel inspection – top view, looking down on wheels – full wheel inspection, position 4 of 5 (performed on sol 3658)													
mhli00769	LEFT (PORT) REAR WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~170 cm											
	3658MH0007690011302123E01	2123	12618	~172	~170	~−0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	LEFT (PORT) MIDDLE WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~112 cm											
	3658MH0007700011302124E01	2124	12660	~114	~112	~−28	~50	~408	~137	1608	1198	~65	~49
mhli00771	LEFT (PORT) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~135 cm											
	3658MH0007710011302125E01	2125	12642	~137	~135	~−38	~82	~489	~210	1608	1198	~78	~59
mhli00772	RIGHT (STARBOARD) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~124 cm											
	3658MH0007720011302126E01	2126	12648	~126	~124	~−32	~67	~450	~175	1608	1198	~72	~54

Continued on Next Page…

rover wheel inspection – top view, looking down on wheels – full wheel inspection, position 5 of 5 (performed on sol 3658)													
mhli00769	LEFT (PORT) REAR WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~170 cm											
	3658MH0007690011302127E01	2127	12618	~172	~170	~−0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	LEFT (PORT) MIDDLE WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~112 cm											
	3658MH0007700011302128E01	2128	12660	~114	~112	~−28	~50	~408	~137	1608	1198	~65	~49
mhli00771	LEFT (PORT) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~135 cm											
	3658MH0007710011302129E01	2129	12642	~137	~135	~−38	~82	~489	~210	1608	1198	~78	~59
mhli00772	RIGHT (STARBOARD) FRONT WHEEL												
	MANUAL FOCUS	INTENDED DISTANCE TO TOP OF WHEEL: ~124 cm											
	3658MH0007720011302130E01	2130	12648	~126	~124	~−32	~67	~450	~175	1608	1198	~72	~54

UPDATED: 24_August_2023

SOL 3664 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Los_Tranques – before DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3664MH0001900011302132C00	2132	13018	26.5	24.6	−1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00182	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3664MH0001820011302134C00	2134	14018	6.7	4.8	−0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3665MH0002270001302198R00		*RANGE MAP PRODUCT:*			3665MH0002270001302199S00				
target named Poraque – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3664MH0007060011302144C00	2144	13017	26.5	24.6	−1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00723	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3664MH0007230011302147C00	2147	13989	6.9	5.0	−0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3665MH0002270001302196R00		*RANGE MAP PRODUCT:*			3665MH0002270001302197S00				
mhli00723	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3664MH0007230011302158C00	2158	13990	6.9	5.0	−0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3665MH0002270001302194R00		*RANGE MAP PRODUCT:*			3665MH0002270001302195S00				
mhli00711	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	APXS RASTER SPOT 1												
	3664MH0007110011302169C00	2169	14652	3.9	2.0	−0.1	0.1	20.7	0.3	1608	1198	3.3	2.5
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3665MH0002270001302192R00		*RANGE MAP PRODUCT:*			3665MH0002270001302193S00				
mhli00723	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3664MH0007230011302180C00	2180	13992	6.9	5.0	−0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3665MH0002270001302190R00		*RANGE MAP PRODUCT:*			3665MH0002270001302191S00				

UPDATED: 24_August_2023

SOL 3665 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Los_Tranques – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3665MH0007060011302201C00	2201	13018	26.5	24.6	–1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3665MH0007630011302204C00	2204	14012	6.8	4.9	–0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3665MH0001930001302240R00				*RANGE MAP PRODUCT:*	3665MH0001930001302241S00				
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3665MH0007630011302215C00	2215	14014	6.8	4.9	–0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3665MH0001930001302238R00				*RANGE MAP PRODUCT:*	3665MH0001930001302239S00				
mhli00603	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3665MH0006030011302226C00	2226	15149	2.7	0.8	0.0	0.1	16.5	0.2	1608	1198	2.7	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3665MH0001930001302236R00				*RANGE MAP PRODUCT:*	3665MH0001930001302237S00				

UPDATED: 24_August_2023

SOL 3667 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Flecha – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3667MH0007060011302243C00	2243	13019	26.4	24.5	−1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00834	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3667MH0008340011302246C00	2246	14009	6.8	4.9	−0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3667MH0001930001302282R00				*RANGE MAP PRODUCT:*	3667MH0001930001302283S00				
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3669MH0001930001302288R00				*RANGE MAP PRODUCT:*	3669MH0001930001302289S00				
mhli00834	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3667MH0008340011302257C00	2257	14014	6.8	4.9	−0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3667MH0001930001302280R00				*RANGE MAP PRODUCT:*	3667MH0001930001302281S00				
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3669MH0001930001302286R00				*RANGE MAP PRODUCT:*	3669MH0001930001302287S00				
mhli0785	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3667MH0007850011302268C00	2268	15140	2.8	0.9	0.0	0.1	16.6	0.2	1608	1198	2.7	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3667MH0001930001302278R00				*RANGE MAP PRODUCT:*	3667MH0001930001302279S00				
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3669MH0001930001302284R00				*RANGE MAP PRODUCT:*	3669MH0001930001302285S00				

UPDATED: 07_September_2023

SOL 3671 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Roxinho – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3671MH0007060011302291C00	2291	13019	26.4	24.5	–1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00721	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3671MH0007210011302294C00	2294	14000	6.8	4.9	–0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3672MH0001710001302390R00				*RANGE MAP PRODUCT:*		3672MH0001710001302391S00			
mhli00721	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3671MH0007210011302305C00	2305	13999	6.9	5.0	–0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3672MH0001710001302388R00				*RANGE MAP PRODUCT:*		3672MH0001710001302389S00			
mhli00802	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3671MH0008020011302316C00	2316	14692	3.8	1.9	–0.1	0.1	20.3	0.3	1608	1198	3.3	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3672MH0001710001302386R00				*RANGE MAP PRODUCT:*		3672MH0001710001302387S00			
target named Shabono – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3671MH0007060011302327C00	2327	13020	26.3	24.4	–1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00723	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3671MH0007230011302330C00	2330	13996	6.9	5.0	–0.2	0.2	31.1	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3672MH0001710001302384R00				*RANGE MAP PRODUCT:*		3672MH0001710001302385S00			
mhli00723	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3671MH0007230011302341C00	2341	14009	6.8	4.9	–0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3672MH0001710001302382R00				*RANGE MAP PRODUCT:*		3672MH0001710001302383S00			
mhli00746	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	APXS RASTER SPOT 2												
	3671MH0007460011302352C00	2352	14697	3.8	1.9	–0.1	0.1	20.3	0.3	1608	1198	3.3	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3672MH0001710001302380R00				*RANGE MAP PRODUCT:*		3672MH0001710001302381S00			
mhli00723	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3671MH0007230011302363C00	2363	13992	6.9	5.0	–0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3672MH0001710001302378R00				*RANGE MAP PRODUCT:*		3672MH0001710001302379S00			
CheMin sample inlet – at night with its cover open – deep imaging to check cleanliness state of mesh, funnel, funnel throat													
INTENDED WORKING DISTANCE TO MESH IS 12.4 cm; TO FUNNEL THROAT IS 16.3 cm – FOR SCALE, NOTE THAT MESH DIAMETER IS 3.5 cm													
mhli00312	IMAGE FOCUSED AT FUNNEL THROAT (~4 cm BELOW MESH) – POSITION 1 OF 3 TO INSPECT FUNNEL THROAT												
	MANUAL FOCUS	INTENDED DISTANCE TO FUNNEL THROAT: 16.3 cm											
	3671MH0003120001302373C00	2373	13272	16.4	14.5	–0.7	0.7	64.6	2.6	1024	1024	6.6	6.6
	IMAGE FOCUSED AT MESH												
	MANUAL FOCUS	INTENDED DISTANCE TO MESH: 12.4 cm											
	3671MH0003120011302374C00	2374	13458	12.5	10.6	–0.4	0.4	51.0	1.5	1024	1024	5.2	5.2
mhli00326	IMAGE FOCUSED AT FUNNEL THROAT (~4 cm BELOW MESH) – POSITION 2 OF 3 TO INSPECT FUNNEL THROAT												
	MANUAL FOCUS	INTENDED DISTANCE TO FUNNEL THROAT: 16.3 cm											
	3671MH0003260001302375C00	2375	13272	16.4	14.5	–0.7	0.7	64.6	2.6	1024	1024	6.6	6.6
mhli00326	IMAGE FOCUSED AT FUNNEL THROAT (~4 cm BELOW MESH) – POSITION 3 OF 3 TO INSPECT FUNNEL THROAT												
	MANUAL FOCUS	INTENDED DISTANCE TO FUNNEL THROAT: 16.3 cm											
	3671MH0003260001302376C00	2376	13272	16.4	14.5	–0.7	0.7	64.6	2.6	1024	1024	6.6	6.6
CheMin sample inlet – at night with its cover open – overview of entire inlet													
INTENDED WORKING DISTANCE TO INLET IS ~19 cm – FOR SCALE, NOTE THAT MESH DIAMETER IS 3.5 cm													
mhli00228	MANUAL FOCUS	INTENDED DISTANCE: ~19 cm											
	3671MH0002280001302377C00	2377	13182	19.1	17.2	–0.9	1.0	74.0	3.4	1608	1198	11.9	8.9

UPDATED: 07_September_2023

SOL 3674 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended drill target named Amapari – before DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3674MH0001900011302393C00	2393	13018	26.5	24.6	−1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3674MH0001220011302395C00	2395	13981	7.0	5.1	−0.2	0.2	31.4	0.6	1608	1198	5.1	3.8
target named Orocaima													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3674MH0000706011302397C00	2397	13019	26.4	24.5	−1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00721	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3674MH0000721001302400C00	2400	14008	6.8	4.9	−0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3674MH0002270001302467R00				*RANGE MAP PRODUCT:*	3674MH0002270001302468S00					
mhli00721	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3674MH0000721001302411C00	2411	14013	6.8	4.9	−0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3674MH0002270001302465R00				*RANGE MAP PRODUCT:*	3674MH0002270001302466S00					
intended drill target named Amapari – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3674MH0000706011302422C00	2422	13018	26.5	24.6	−1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3674MH0000763011302425C00	2425	13979	7.0	5.1	−0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3674MH0002270001302463R00				*RANGE MAP PRODUCT:*	3674MH0002270001302464S00					
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3674MH0000763011302436C00	2436	13983	7.0	5.1	−0.2	0.2	31.4	0.6	1608	1198	5.0	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3674MH0002270001302461R00				*RANGE MAP PRODUCT:*	3674MH0002270001302462S00					
mhli00824	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3674MH0000824001302447C00	2447	14626	4.0	2.1	−0.1	0.1	21.0	0.3	1608	1198	3.4	2.5
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3674MH0002270001302459R00				*RANGE MAP PRODUCT:*	3674MH0002270001302460S00					
intended drill target named Amapari – after drill bit pre-load test													
mhli00465	CONTEXT VIEW	INTENDED STANDOFF – 35 cm											
	3674MH0000465001302458C00	2458	12897	36.3	34.4	−3.2	3.9	134.5	12.5	1608	1198	21.6	16.1

UPDATED: 07_September_2023

SOL 3676 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended sample discard site for planned Amapari drill sample													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3676MH0001900011302470C00	2470	13017	26.5	24.6	−1.8	2.0	100.3	6.6	1608	1198	16.1	12.0

UPDATED: 07_September_2023

SOL 3677 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended drill target named Amapari2 – before DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3677MH0001900011302472C00	2472	13015	26.6	24.7	−1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3677MH0001220011302474C00	2474	13983	7.0	5.1	−0.2	0.2	31.4	0.6	1608	1198	5.0	3.8
intended drill target named Amapari2 – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3677MH0000706011302476C00	2476	13016	26.6	24.7	−1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
mhli00699	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3677MH0000699011302479C00	2479	13987	6.9	5.0	−0.2	0.2	31.3	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3677MH0001530001302530R00				*RANGE MAP PRODUCT:*	3677MH0001530001302531S00				
mhli00699	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3677MH0000699011302490C00	2490	13990	6.9	5.0	−0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3677MH0001530001302528R00				*RANGE MAP PRODUCT:*	3677MH0001530001302529S00				
mhli00824	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	APXS RASTER SPOT 2												
	3677MH0000824011302501C00	2501	14655	3.9	2.0	−0.1	0.1	20.7	0.3	1608	1198	3.3	2.5
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3677MH0001530001302526R00				*RANGE MAP PRODUCT:*	3677MH0001530001302527S00				
mhli00699	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3677MH0000699011302512C00	2512	13948	7.2	5.3	−0.2	0.2	32.2	0.6	1608	1198	5.2	3.9
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3677MH0001530001302524R00				*RANGE MAP PRODUCT:*	3677MH0001530001302525S00				
intended drill target named Amapari2 – after drill bit pre-load test													
mhli00465	CONTEXT VIEW	INTENDED STANDOFF – 35 cm											
	3677MH0000465011302523C00	2523	12894	36.6	34.7	−3.3	4.0	135.7	12.7	1608	1198	21.8	16.3

UPDATED: 07_September_2023

SOL 3682 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
Amapari attempted (sol 3676) drill hole													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3682MH0001900011302533C00	2533	13023	26.2	24.3	–1.7	1.9	99.0	6.5	1608	1198	15.9	11.9
mhli00774	INTERMEDIATE-RESOLUTION VIEW	INTENDED STANDOFF – 10 cm											
	3682MH0000774011302535C00	2535	13521	11.5	9.6	–0.4	0.4	47.5	1.3	1608	1198	7.6	5.7
mhli00224	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3682MH0000224011302537C00	2537	14002	6.8	4.9	–0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3682MH0001530001302586R00				*RANGE MAP PRODUCT:*		3682MH0001530001302587S00			
mhli00224	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3682MH0000224011302547C00	2547	14008	6.8	4.9	–0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3682MH0001530001302584R00				*RANGE MAP PRODUCT:*		3682MH0001530001302585S00			
Amapari2 attempted (sol 3680) drill hole													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3682MH0001900011302557C00	2557	13016	26.6	24.7	–1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
mhli00774	INTERMEDIATE-RESOLUTION VIEW	INTENDED STANDOFF – 10 cm											
	3682MH0000774011302559C00	2559	13490	12.0	10.1	–0.4	0.4	49.2	1.4	1608	1198	7.9	5.9
Amapari2 attempted (sol 3680) drill hole cuttings													
mhli00308	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3682MH0000308011302561C00	2561	14151	5.9	4.0	–0.1	0.1	27.8	0.5	1608	1198	4.5	3.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3682MH0001530001302582R00				*RANGE MAP PRODUCT:*		3682MH0001530001302583S00			
mhli00308	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3682MH0000308011302571C00	2571	14155	5.9	4.0	–0.1	0.1	27.8	0.5	1608	1198	4.5	3.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3682MH0001530001302580R00				*RANGE MAP PRODUCT:*		3682MH0001530001302581S00			

UPDATED: 07_September_2023

SOL 3684 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
MAHLI sky flat field images – dust cover closed – first set													
mhli00712	CLOSE FOCUS – ~2.04 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0007120001302588C00	2588	0	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	2 cm STANDOFF EQUIVALENT – ~3.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0007120011302589C00	2589	2412	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	5 cm STANDOFF EQUIVALENT – ~6.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0007120021302590C00	2590	3078	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	25 cm STANDOFF EQUIVALENT – ~26.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0007120031302591C00	2591	4062	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	INFINITY FOCUS – MANUAL FOCUS												
	3684MH0007120041302592C00	2592	4488	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
MAHLI sky flat field images – dust cover open – first set													
mhli00453	CLOSE FOCUS – ~2.04 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453000l302593C00	2593	15996	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	2 cm STANDOFF EQUIVALENT – ~3.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453001l302594C00	2594	14664	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	5 cm STANDOFF EQUIVALENT – ~6.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453002l302595C00	2595	13998	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	25 cm STANDOFF EQUIVALENT – ~26.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453003l302596C00	2596	13014	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	PRE-LAUNCH FLAT FIELD EQUIVALENT – ~63.3 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453004l302597C00	2597	12750	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	INFINITY FOCUS – MANUAL FOCUS												
	3684MH0000453005l302598C00	2598	12552	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
MAHLI sky flat field images – dust cover open – second set (camera rotated approximately 180° relative to first set)													
mhli00453	CLOSE FOCUS – ~2.04 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453000l302599C00	2599	15996	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	2 cm STANDOFF EQUIVALENT – ~3.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453001l302600C00	2600	14664	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	5 cm STANDOFF EQUIVALENT – ~6.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453002l302601C00	2601	13998	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	25 cm STANDOFF EQUIVALENT – ~26.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453003l302602C00	2602	13014	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	PRE-LAUNCH FLAT FIELD EQUIVALENT – ~63.3 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0000453004l302603C00	2603	12750	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	INFINITY FOCUS – MANUAL FOCUS												
	3684MH0000453005l302604C00	2604	12552	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
MAHLI sky flat field images – dust cover closed – second set (camera rotated approximately 180° relative to first set)													
mhli00712	CLOSE FOCUS – ~2.04 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0007120001302605C00	2605	0	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	2 cm STANDOFF EQUIVALENT – ~3.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0007120011302606C00	2606	2412	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	5 cm STANDOFF EQUIVALENT – ~6.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0007120021302607C00	2607	3078	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	25 cm STANDOFF EQUIVALENT – ~26.9 cm WORKING DISTANCE FOCUS POSITION – MANUAL FOCUS												
	3684MH0007120031302608C00	2608	4062	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	INFINITY FOCUS – MANUAL FOCUS												
	3684MH0007120041302609C00	2609	4488	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a

CONTINUED ON NEXT PAGE…

target named Urutanim													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3684MH0001900011302611C00	2611	13015	26.6	24.7	−1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00152	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3684MH0001520011302613C00	2613	13954	7.2	5.3	−0.2	0.2	32.1	0.6	1608	1198	5.2	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3687MH0001630001302686R00				*RANGE MAP PRODUCT:*		3687MH0001630001302687S00			
mhli00152	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3684MH0001520011302623C00	2623	13963	7.1	5.2	−0.2	0.2	31.9	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3687MH0001630001302684R00				*RANGE MAP PRODUCT:*		3687MH0001630001302685S00			
mhli00311	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3684MH0003110011302633C00	2633	14584	4.1	2.2	−0.1	0.1	21.5	0.3	1608	1198	3.5	2.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3687MH0001630001302682R00				*RANGE MAP PRODUCT:*		3687MH0001630001302683S00			

Amapari attempted (sol 3676) drill hole cuttings													
mhli00173	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3684MH0001730011302643C00	2643	14109	6.2	4.3	−0.1	0.1	28.7	0.5	1608	1198	4.6	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3687MH0001630001302680R00				*RANGE MAP PRODUCT:*		3687MH0001630001302681S00			

target named Jundia													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3684MH0001900011302653C00	2653	13014	26.7	24.8	−1.8	2.0	100.9	6.7	1608	1198	16.2	12.1
mhli00299	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3684MH0002990011302655C00	2655	14085	6.3	4.4	−0.1	0.1	29.1	0.5	1608	1198	4.7	3.5
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3687MH0001630001302678R00				*RANGE MAP PRODUCT:*		3687MH0001630001302679S00			
mhli00299	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3684MH0002990011302665C00	2665	14105	6.2	4.3	−0.1	0.1	28.7	0.5	1608	1198	4.6	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3687MH0001630001302676R00				*RANGE MAP PRODUCT:*		3687MH0001630001302677S00			

UPDATED: 07_September_2023

SOL 3685 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ–ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
Amapari attempted (sol 3676) drill hole													
mhli00424	CONTEXT VIEW	INTENDED STANDOFF – 35 cm											
	3685MH0004240011302675C00	2675	12897	36.3	34.4	–3.2	3.9	134.5	12.5	1608	1198	21.6	16.1

UPDATED: 07_September_2023

SOL 3688 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Tucuxuma – a 3 x 1 mosaic													
mhli00855	POSITION 1 OF 3	INTENDED STANDOFF – 25 cm											
	3688MH0008550011302689C00	2689	13035	25.5	23.6	−1.6	1.8	96.5	6.1	1608	1198	15.5	11.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3688MH0002270001302748R00				*RANGE MAP PRODUCT:*	3688MH0002270001302749S00				
mhli00855	POSITION 2 OF 3	INTENDED STANDOFF – 25 cm											
	3688MH0008550011302699C00	2699	13016	26.6	24.7	−1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3688MH0002270001302746R00				*RANGE MAP PRODUCT:*	3688MH0002270001302747S00				
mhli00855	POSITION 3 OF 3	INTENDED STANDOFF – 25 cm											
	3688MH0008550011302709C00	2709	12972	29.5	27.6	−2.2	2.5	110.9	8.3	1608	1198	17.8	13.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3688MH0002270001302744R00				*RANGE MAP PRODUCT:*	3688MH0002270001302745S00				
target named Tamandua													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3688MH0001900011302719C00	2719	13018	26.5	24.6	−1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00173	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3688MH0001730011302721C00	2721	14049	6.5	4.6	−0.2	0.1	29.9	0.5	1608	1198	4.8	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3688MH0002270001302742R00				*RANGE MAP PRODUCT:*	3688MH0002270001302743S00				
mhli00173	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3688MH0001730011302731C00	2731	14040	6.6	4.7	−0.2	0.1	30.1	0.5	1608	1198	4.8	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3688MH0002270001302740R00				*RANGE MAP PRODUCT:*	3688MH0002270001302741S00				

UPDATED: 07_September_2023

SOL 3689 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Wapixana – a 3 x 2 mosaic													
mhli00855	POSITION 1 OF 6	INTENDED STANDOFF – 25 cm											
	3689MH0008550011302751C00	2751	13002	27.5	25.6	−1.9	2.2	103.6	7.1	1608	1198	16.7	12.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3690MH0001700001302848R00				*RANGE MAP PRODUCT:*	3690MH0001700001302849S00				
mhli00855	POSITION 2 OF 6	INTENDED STANDOFF – 25 cm											
	3689MH0008550011302761C00	2761	13056	24.3	22.4	−1.5	1.7	92.5	5.6	1608	1198	14.9	11.1
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3690MH0001700001302846R00				*RANGE MAP PRODUCT:*	3690MH0001700001302847S00				
mhli00855	POSITION 3 OF 6	INTENDED STANDOFF – 25 cm											
	3689MH0008550011302771C00	2771	13034	25.5	23.6	−1.6	1.8	96.7	6.1	1608	1198	15.6	11.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3690MH0001700001302844R00				*RANGE MAP PRODUCT:*	3690MH0001700001302845S00				
mhli00855	POSITION 4 OF 6	INTENDED STANDOFF – 25 cm											
	3689MH0008550011302781C00	2781	13022	26.2	24.3	−1.7	2.0	99.2	6.5	1608	1198	16.0	11.9
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3690MH0001700001302842R00				*RANGE MAP PRODUCT:*	3690MH0001700001302843S00				
mhli00855	POSITION 5 OF 6	INTENDED STANDOFF – 25 cm											
	3689MH0008550011302791C00	2791	12946	31.6	29.7	−2.5	2.9	118.1	9.5	1608	1198	19.0	14.1
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3690MH0001700001302840R00				*RANGE MAP PRODUCT:*	3690MH0001700001302841S00				
mhli00855	POSITION 6 OF 6	INTENDED STANDOFF – 25 cm											
	3689MH0008550011302801C00	2801	13020	26.3	24.4	−1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3690MH0001700001302838R00				*RANGE MAP PRODUCT:*	3690MH0001700001302839S00				
target named Truaru													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3689MH0001900011302811C00	2811	13029	25.8	23.9	−1.7	1.9	97.8	6.3	1608	1198	15.7	11.7
mhli00224	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3689MH0002240011302813C00	2813	14124	6.1	4.2	−0.1	0.1	28.4	0.5	1608	1198	4.6	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3690MH0001700001302836R00				*RANGE MAP PRODUCT:*	3690MH0001700001302837S00				
mhli00224	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3689MH0002240011302823C00	2823	14126	6.1	4.2	−0.1	0.1	28.3	0.5	1608	1198	4.6	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3690MH0001700001302834R00				*RANGE MAP PRODUCT:*	3690MH0001700001302835S00				
REMS UV sensor													
mhli00095	STANDARD VIEWING POSITION	INTENDED STANDOFF: ~15 cm											
	3689MH0000950011302833C00	2833	13264	16.6	14.7	−0.7	0.8	65.3	2.6	1608	1198	10.5	7.8

UPDATED: 07_September_2023

SOL 3699 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Corume													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3699MH0007060011302851C00	2851	13037	25.4	23.5	−1.6	1.8	96.2	6.1	1608	1198	15.5	11.5
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3699MH0007630011302854C00	2854	14249	5.5	3.6	−0.1	0.1	26.1	0.4	1608	1198	4.2	3.1
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3700MH0006950001302922R00			*RANGE MAP PRODUCT:*	3700MH0006950001302923S00						
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3699MH0007630011302865C00	2865	14235	5.5	3.6	−0.1	0.1	26.3	0.4	1608	1198	4.2	3.2
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3700MH0006950001302920R00			*RANGE MAP PRODUCT:*	3700MH0006950001302921S00						
target named Mapuera													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3699MH0007060011302876C00	2876	13037	25.4	23.5	−1.6	1.8	96.2	6.1	1608	1198	15.5	11.5
mhli00834	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3699MH0008340011302879C00	2879	14264	5.4	3.5	−0.1	0.1	25.8	0.4	1608	1198	4.2	3.1
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3700MH0006950001302918R00			*RANGE MAP PRODUCT:*	3700MH0006950001302919S00						
mhli00834	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3699MH0008340011302890C00	2890	14264	5.4	3.5	−0.1	0.1	25.8	0.4	1608	1198	4.2	3.1
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3700MH0006950001302916R00			*RANGE MAP PRODUCT:*	3700MH0006950001302917S00						
mhli00834	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3699MH0008340011302901C00	2901	14240	5.5	3.6	−0.1	0.1	26.2	0.4	1608	1198	4.2	3.1
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3700MH0006950001302914R00			*RANGE MAP PRODUCT:*	3700MH0006950001302915S00						

UPDATED: 07_September_2023

SOL 3700 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Corume and Mapuera – image is centered between the two targets													
mhli00760	CONTEXT VIEW	INTENDED STANDOFF – 35 cm											
	3700MH0007600011302912C00	2912	12907	35.2	33.3	-3.0	3.6	130.8	11.8	1608	1198	21.0	15.7

UPDATED: 07_September_2023

SOL 3702 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Anarem													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3702MH0001900011302925C00	2925	13018	26.5	24.6	–1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00173	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3702MH0001730011302927C00	2927	14014	6.8	4.9	–0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3703MH0002270001302994R00			*RANGE MAP PRODUCT:*	3703MH0002270001302995S00						
mhli00173	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3702MH0001730011302937C00	2937	14008	6.8	4.9	–0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3703MH0002270001302992R00			*RANGE MAP PRODUCT:*	3703MH0002270001302993S00						
target named Uafaranda – before DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3702MH0001900011302947C00	2947	13019	26.4	24.5	–1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3702MH0001220011302949C00	2949	14003	6.8	4.9	–0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
target named Uafaranda – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3702MH0007060011302951C00	2951	13018	26.5	24.6	–1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00834	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3702MH0008340011302954C00	2954	14001	6.8	4.9	–0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3703MH0002270001302990R00			*RANGE MAP PRODUCT:*	3703MH0002270001302991S00						
mhli00834	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3702MH0008340011302965C00	2965	14002	6.8	4.9	–0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3703MH0002270001302988R00			*RANGE MAP PRODUCT:*	3703MH0002270001302989S00						
mhli00835	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3702MH0008350011302976C00	2976	15105	2.8	0.9	–0.1	0.1	16.8	0.2	1608	1198	2.7	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3703MH0002270001302986R00			*RANGE MAP PRODUCT:*	3703MH0002270001302987S00						

UPDATED: 07_September_2023

SOL 3705 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Waimiri – before DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3705MH0001900011302997C00	2997	13018	26.5	24.6	–1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3705MH0001220011302999C00	2999	13995	6.9	5.0	–0.2	0.2	31.1	0.6	1608	1198	5.0	3.7
target named Waimiri – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3705MH0000706001130300 1C00	3001	13018	26.5	24.6	–1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00763	MEDIUM-RESOLUTION STEREO–1	INTENDED STANDOFF – 5 cm											
	3705MH0000763001130300 4C00	3004	13994	6.9	5.0	–0.2	0.2	31.1	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3706MH00022700013030 66R00					*RANGE MAP PRODUCT:*	3706MH00022700013030 67S00				
mhli00763	MEDIUM-RESOLUTION STEREO–2	INTENDED STANDOFF – 5 cm											
	3705MH0000763001130301 5C00	3015	13991	6.9	5.0	–0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3706MH00022700013030 64R00					*RANGE MAP PRODUCT:*	3706MH00022700013030 65S00				
mhli00746	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3705MH0000746001130302 6C00	3026	14658	3.9	2.0	–0.1	0.1	20.7	0.3	1608	1198	3.3	2.5
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3706MH00022700013030 62R00					*RANGE MAP PRODUCT:*	3706MH00022700013030 63S00				
target named Caroebe													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3705MH0001900011303037C00	3037	13017	26.5	24.6	–1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00173	MEDIUM-RESOLUTION STEREO–1	INTENDED STANDOFF – 5 cm											
	3705MH0000173001130303 9C00	3039	13972	7.0	5.1	–0.2	0.2	31.7	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3706MH00022700013030 60R00					*RANGE MAP PRODUCT:*	3706MH00022700013030 61S00				
mhli00173	MEDIUM-RESOLUTION STEREO–2	INTENDED STANDOFF – 5 cm											
	3705MH0000173001130304 9C00	3049	13981	7.0	5.1	–0.2	0.2	31.4	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3706MH00022700013030 58R00					*RANGE MAP PRODUCT:*	3706MH00022700013030 59S00				

UPDATED: 07_September_2023

SOL 3708 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Jenipapo – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3708MH0007060011303069C00	3069	13018	26.5	24.6	−1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3708MH0007630011303072C00	3072	14000	6.8	4.9	−0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3708MH0001930001303108R00				*RANGE MAP PRODUCT:*	3708MH0001930001303109S00				
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3708MH0007630011303083C00	3083	13999	6.9	5.0	−0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3708MH0001930001303106R00				*RANGE MAP PRODUCT:*	3708MH0001930001303107S00				
mhli00794	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3708MH0007940011303094C00	3094	15090	2.9	1.0	−0.1	0.1	16.9	0.2	1608	1198	2.7	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3708MH0001930001303104R00				*RANGE MAP PRODUCT:*	3708MH0001930001303105S00				

UPDATED: 07_September_2023

SOL 3712 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Paredao – before DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3712MH0001900011303111C00	3111	13020	26.3	24.4	–1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3712MH0001220011303113C00	3113	14024	6.7	4.8	–0.2	0.1	30.4	0.5	1608	1198	4.9	3.6
target named Curupira – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3712MH0000706011303115C00	3115	13015	26.6	24.7	–1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00834	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3712MH0000834011303118C00	3118	13998	6.9	5.0	–0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3714MH0001630001303202R00				*RANGE MAP PRODUCT:*	3714MH0001630001303203S00					
mhli00834	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3712MH0000834011303129C00	3129	14002	6.8	4.9	–0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3714MH0001630001303200R00				*RANGE MAP PRODUCT:*	3714MH0001630001303201S00					
mhli00813	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3712MH0000813011303140C00	3140	14704	3.8	1.9	–0.1	0.1	20.2	0.3	1608	1198	3.2	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3714MH0001630001303198R00				*RANGE MAP PRODUCT:*	3714MH0001630001303199S00					
target named Paredao – after DRT – quantitative relief model (QRM) data													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3712MH0000706001303151C00	3151	13018	26.5	24.6	–1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00834	MED RES – STEREO-2 & RELIEF MODEL POSITION	INTENDED STANDOFF – 5 cm											
	3712MH0000834011303154C00	3154	14018	6.7	4.8	–0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3714MH0001630001303196R00				*RANGE MAP PRODUCT:*	3714MH0001630001303197S00					
mhli00834	MED RES – STEREO-2 & RELIEF MODEL POSITION	INTENDED STANDOFF – 5 cm											
	3712MH0000834011303165C00	3165	14016	6.7	4.8	–0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3714MH0001630001303194R00				*RANGE MAP PRODUCT:*	3714MH0001630001303195S00					
mhli00705	MED RES – RELIEF MODEL POSITION 3	INTENDED STANDOFF – 5 cm											
	3712MH0000705001303176C00	3176	14015	6.7	4.8	–0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
mhli00705	MED RES – RELIEF MODEL POSITION 4	INTENDED STANDOFF – 5 cm											
	3712MH0000705011303178C00	3178	14020	6.7	4.8	–0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
mhli00705	MED RES – RELIEF MODEL POSITION 5	INTENDED STANDOFF – 5 cm											
	3712MH0000705001303180C00	3180	14018	6.7	4.8	–0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
mhli00835	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3712MH0000835011303182C00	3182	15170	2.7	0.8	0.0	0.1	16.4	0.2	1608	1198	2.6	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3714MH0001630001303192R00				*RANGE MAP PRODUCT:*	3714MH0001630001303193S00					

UPDATED: 07_September_2023

SOL 3715 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Tarra – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3715MH0007060011303205C00	3205	13020	26.3	24.4	–1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3715MH0007630011303208C00	3208	14008	6.8	4.9	–0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3715MH0001930001303244R00				*RANGE MAP PRODUCT:*	3715MH0001930001303245S00				
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3715MH0007630011303219C00	3219	14023	6.7	4.8	–0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3715MH0001930001303242R00				*RANGE MAP PRODUCT:*	3715MH0001930001303243S00				
mhli00835	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3715MH0008350011303230C00	3230	15163	2.7	0.8	0.0	0.1	16.5	0.2	1608	1198	2.6	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3715MH0001930001303240R00				*RANGE MAP PRODUCT:*	3715MH0001930001303241S00				

UPDATED: 07_September_2023

SOL 3716 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended drill target named Encanto – before DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3716MH0001900011303247C00	3247	13017	26.5	24.6	–1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3716MH0001220011303249C00	3249	13985	6.9	5.0	–0.2	0.2	31.3	0.6	1608	1198	5.0	3.8
intended drill target named Encanto – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3716MH0000706001303251C00	3251	13017	26.5	24.6	–1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3716MH0000763001303254C00	3254	13985	6.9	5.0	–0.2	0.2	31.3	0.6	1608	1198	5.0	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3716MH0001530001303305R00				*RANGE MAP PRODUCT:*	3716MH0001530001303306S00				
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3716MH0000763001303265C00	3265	13986	6.9	5.0	–0.2	0.2	31.3	0.6	1608	1198	5.0	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3716MH0001530001303303R00				*RANGE MAP PRODUCT:*	3716MH0001530001303304S00				
mhli00813	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	APXS RASTER SPOT 2												
	3716MH0000813001303276C00	3276	14645	3.9	2.0	–0.1	0.1	20.8	0.3	1608	1198	3.3	2.5
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3716MH0001530001303301R00				*RANGE MAP PRODUCT:*	3716MH0001530001303302S00				
mhli00763	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3716MH0000763001303287C00	3287	14000	6.8	4.9	–0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3716MH0001530001303299R00				*RANGE MAP PRODUCT:*	3716MH0001530001303300S00				
intended drill target named Encanto – after drill bit pre-load test													
mhli00465	CONTEXT VIEW	INTENDED STANDOFF – 35 cm											
	3716MH0000465001303298C00	3298	12896	36.4	34.5	–3.2	3.9	134.9	12.6	1608	1198	21.7	16.2

UPDATED: 07_September_2023

SOL 3718 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended sample discard site for planned Encanto drill sample													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3718MH0001900011303308C00	3308	13023	26.2	24.3	−1.7	1.9	99.0	6.5	1608	1198	15.9	11.9
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3718MH0001220011303310C00	3310	14065	6.4	4.5	−0.1	0.1	29.6	0.5	1608	1198	4.8	3.5

UPDATED: 21_September_2023

SOL 3721 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
Encanto attempted (sol 3718) drill hole													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3721MH0001900011303312C00	3312	13020	26.3	24.4	–1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00774	INTERMEDIATE-RESOLUTION VIEW	INTENDED STANDOFF – 10 cm											
	3721MH0000774011303314C00	3314	13497	11.9	10.0	–0.4	0.4	48.8	1.4	1608	1198	7.8	5.8
mhli00224	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3721MH0000224011303316C00	3316	13987	6.9	5.0	–0.2	0.2	31.3	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3721MH0001930001303349R00				*RANGE MAP PRODUCT:*	3721MH0001930001303350S00				
Encanto attempted (sol 3718) drill hole cuttings													
mhli00173	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3721MH0001730011303326C00	3326	14015	6.7	4.8	–0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3721MH0001930001303347R00				*RANGE MAP PRODUCT:*	3721MH0001930001303348S00				
mhli00173	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3721MH0001730011303336C00	3336	14022	6.7	4.8	–0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3721MH0001930001303345R00				*RANGE MAP PRODUCT:*	3721MH0001930001303346S00				

UPDATED: 12_September_2023

SOL 3723 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named El_Descanso													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3723MH0001900011303352C00	3352	13019	26.4	24.5	–1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00168	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3723MH0001680011303354C00	3354	14009	6.8	4.9	–0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303459R00			*RANGE MAP PRODUCT:*	3724MH0005360001303460S00						
mhli00168	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3723MH0001680011303364C00	3364	14010	6.8	4.9	–0.2	0.2	30.8	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303457R00			*RANGE MAP PRODUCT:*	3724MH0005360001303458S00						
target named Peters_Mine													
mhli00359	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3723MH0003590011303374C00	3374	13031	25.7	23.8	–1.7	1.9	97.3	6.2	1608	1198	15.7	11.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303455R00			*RANGE MAP PRODUCT:*	3724MH0005360001303456S00						
mhli00306	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3723MH0003060011303384C00	3384	14230	5.5	3.6	–0.1	0.1	26.4	0.4	1608	1198	4.2	3.2
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303453R00			*RANGE MAP PRODUCT:*	3724MH0005360001303454S00						
mhli00306	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3723MH0003060011303394C00	3394	14209	5.6	3.7	–0.1	0.1	26.8	0.4	1608	1198	4.3	3.2
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303451R00			*RANGE MAP PRODUCT:*	3724MH0005360001303452S00						
target named Semang_Peak – a 4 x 1 mosaic													
mhli00859	POSITION 1 OF 4	INTENDED STANDOFF – 10 cm											
	3723MH0000859011303404C00	3404	13499	11.9	10.0	–0.4	0.4	48.7	1.4	1608	1198	7.8	5.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303449R00			*RANGE MAP PRODUCT:*	3724MH0005360001303450S00						
mhli00859	POSITION 2 OF 4	INTENDED STANDOFF – 10 cm											
	3723MH0000859011303414C00	3414	13309	15.5	13.6	–0.6	0.7	61.4	2.3	1608	1198	9.9	7.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303447R00			*RANGE MAP PRODUCT:*	3724MH0005360001303448S00						
mhli00859	POSITION 3 OF 4	INTENDED STANDOFF – 10 cm											
	3723MH0000859011303424C00	3424	13540	11.3	9.4	–0.4	0.4	46.6	1.3	1608	1198	7.5	5.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303445R00			*RANGE MAP PRODUCT:*	3724MH0005360001303446S00						
mhli00859	POSITION 4 OF 4	INTENDED STANDOFF – 10 cm											
	3723MH0000859011303434C00	3434	13531	11.4	9.5	–0.4	0.4	47.0	1.3	1608	1198	7.6	5.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3724MH0005360001303443R00			*RANGE MAP PRODUCT:*	3724MH0005360001303444S00						

UPDATED: 12_September_2023

SOL 3725 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Curare on boulder named Cacao													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3725MH0001900011303462C00	3462	13013	26.8	24.9	−1.8	2.0	101.1	6.8	1608	1198	16.3	12.1
mhli00152	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3725MH0001520011303464C00	3464	13990	6.9	5.0	−0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3727MH0001630001303535R00				*RANGE MAP PRODUCT:*	3727MH0001630001303536S00				
mhli00152	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3725MH0001520011303474C00	3474	14002	6.8	4.9	−0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3727MH0001630001303533R00				*RANGE MAP PRODUCT:*	3727MH0001630001303534S00				
mhli00796	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3725MH0007960011303484C00	3484	15073	2.9	1.0	−0.1	0.1	17.1	0.2	1608	1198	2.7	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3727MH0001630001303531R00				*RANGE MAP PRODUCT:*	3727MH0001630001303532S00				
target named Cururu on boulder named Cacao													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3725MH0001900011303494C00	3494	13015	26.6	24.7	−1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00306	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3725MH0003060011303496C00	3496	14019	6.7	4.8	−0.2	0.1	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3727MH0001630001303529R00				*RANGE MAP PRODUCT:*	3727MH0001630001303530S00				
mhli00306	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3725MH0003060011303506C00	3506	14033	6.6	4.7	−0.2	0.1	30.2	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3727MH0001630001303527R00				*RANGE MAP PRODUCT:*	3727MH0001630001303528S00				
mhli00176	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3725MH0001760011303516C00	3516	14723	3.7	1.8	−0.1	0.1	20.0	0.3	1608	1198	3.2	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3727MH0001630001303525R00				*RANGE MAP PRODUCT:*	3727MH0001630001303526S00				

UPDATED: 12_September_2023

SOL 3728 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Primavera													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3728MH0001900011303538C00	3538	13016	26.6	24.7	−1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
mhli00173	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3728MH0001730011303540C00	3540	14003	6.8	4.9	−0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3728MH0002650001303561R00				*RANGE MAP PRODUCT:*		3728MH0002650001303562S00			
mhli00173	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3728MH0001730011303550C00	3550	14008	6.8	4.9	−0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3728MH0002650001303559R00				*RANGE MAP PRODUCT:*		3728MH0002650001303560S00			

UPDATED: 12_September_2023

SOL 3730 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Alasca													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3730MH0007060011303564C00	3564	13019	26.4	24.5	–1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00721	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3730MH0007210011303567C00	3567	14005	6.8	4.9	–0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3730MH0008170001303619R00				*RANGE MAP PRODUCT:*	3730MH0008170001303620S00				
mhli00721	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3730MH0007210011303578C00	3578	14017	6.7	4.8	–0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3730MH0008170001303617R00				*RANGE MAP PRODUCT:*	3730MH0008170001303618S00				
target named Alegria													
mhli00814	CONTEXT VIEW	INTENDED STANDOFF – 15 cm											
	3730MH0008140011303589C00	3589	13300	15.7	13.8	–0.7	0.7	62.1	2.4	1608	1198	10.0	7.4
mhli00723	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3730MH0007230011303592C00	3592	14164	5.9	4.0	–0.1	0.1	27.6	0.4	1608	1198	4.4	3.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3730MH0008170001303615R00				*RANGE MAP PRODUCT:*	3730MH0008170001303616S00				
mhli00723	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3730MH0007230011303603C00	3603	14163	5.9	4.0	–0.1	0.1	27.6	0.4	1608	1198	4.4	3.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3730MH0008170001303613R00				*RANGE MAP PRODUCT:*	3730MH0008170001303614S00				

UPDATED: 12_September_2023

SOL 3732 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Pasamoni													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3732MH0001900011303622C00	3622	13015	26.6	24.7	–1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00299	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3732MH0002990011303624C00	3624	13947	7.2	5.3	–0.2	0.2	32.3	0.6	1608	1198	5.2	3.9
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3733MH0002270001303683R00				*RANGE MAP PRODUCT:*	3733MH0002270001303684S00					
mhli00299	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3732MH0002990011303634C00	3634	13962	7.1	5.2	–0.2	0.2	31.9	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3733MH0002270001303681R00				*RANGE MAP PRODUCT:*	3733MH0002270001303682S00					
target named Paraiso													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3732MH0001900011303644C00	3644	13013	26.8	24.9	–1.8	2.0	101.1	6.8	1608	1198	16.3	12.1
mhli00297	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3732MH0002970011303646C00	3646	14011	6.8	4.9	–0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3733MH0002270001303679R00				*RANGE MAP PRODUCT:*	3733MH0002270001303680S00					
mhli00297	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3732MH0002970011303656C00	3656	14023	6.7	4.8	–0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3733MH0002270001303677R00				*RANGE MAP PRODUCT:*	3733MH0002270001303678S00					
mhli00796	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3732MH0007960011303666C00	3666	15118	2.8	0.9	–0.1	0.1	16.8	0.2	1608	1198	2.7	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3733MH0002270001303675R00				*RANGE MAP PRODUCT:*	3733MH0002270001303676S00					

UPDATED: 12_September_2023

SOL 3735 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Pico_Espejo													
mhli00172	CONTEXT VIEW	INTENDED STANDOFF – 20 cm											
	3735MH0001720011303686C00	3686	13109	21.8	19.9	–1.2	1.3	83.7	4.5	1608	1198	13.5	10.0
mhli00173	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3735MH0001730011303688C00	3688	13971	7.0	5.1	–0.2	0.2	31.7	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3735MH0001530001303735R00				*RANGE MAP PRODUCT:*	3735MH0001530001303736S00				
mhli00173	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3735MH0001730011303698C00	3698	13966	7.1	5.2	–0.2	0.2	31.8	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3735MH0001530001303733R00				*RANGE MAP PRODUCT:*	3735MH0001530001303734S00				
target named Uatatas													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3735MH0001900011303708C00	3708	13024	26.1	24.2	–1.7	1.9	98.8	6.4	1608	1198	15.9	11.8
mhli00299	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3735MH0002990011303710C00	3710	14060	6.5	4.6	–0.1	0.1	29.7	0.5	1608	1198	4.8	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3735MH0001530001303731R00				*RANGE MAP PRODUCT:*	3735MH0001530001303732S00				
mhli00299	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3735MH0002990011303720C00	3720	14061	6.5	4.6	–0.1	0.1	29.6	0.5	1608	1198	4.8	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3735MH0001530001303729R00				*RANGE MAP PRODUCT:*	3735MH0001530001303730S00				

UPDATED: 12_September_2023

SOL 3737 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended drill target named Dinira – before DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3737MH0001900011303738C00	3738	13019	26.4	24.5	–1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3737MH0001220011303740C00	3740	14035	6.6	4.7	–0.2	0.1	30.2	0.5	1608	1198	4.9	3.6
intended drill target named Dinira – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3737MH0000706011303742C00	3742	13020	26.3	24.4	–1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3737MH0000763011303745C00	3745	14019	6.7	4.8	–0.2	0.1	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3737MH0001530001303796R00				*RANGE MAP PRODUCT:*	3737MH0001530001303797S00				
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3737MH0000763011303756C00	3756	14029	6.7	4.8	–0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3737MH0001530001303794R00				*RANGE MAP PRODUCT:*	3737MH0001530001303795S00				
mhli00824	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	APXS RASTER SPOT 2												
	3737MH0000824011303767C00	3767	14744	3.7	1.8	–0.1	0.1	19.8	0.2	1608	1198	3.2	2.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3737MH0001530001303792R00				*RANGE MAP PRODUCT:*	3737MH0001530001303793S00				
mhli00763	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3737MH0000763011303778C00	3778	14022	6.7	4.8	–0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3737MH0001530001303790R00				*RANGE MAP PRODUCT:*	3737MH0001530001303791S00				
intended drill target named Dinira – after drill bit pre-load test													
mhli00465	CONTEXT VIEW	INTENDED STANDOFF – 35 cm											
	3737MH0000465011303789C00	3789	12895	36.5	34.6	–3.3	3.9	135.3	12.7	1608	1198	21.8	16.2

UPDATED: 12_September_2023

SOL 3739 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Yakarinta – after DRT													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3739MH0001900011303799C00	3799	13021	26.3	24.4	–1.7	2.0	99.4	6.5	1608	1198	16.0	11.9
mhli00173	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3739MH0001730011303801C00	3801	14010	6.8	4.9	–0.2	0.2	30.8	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3739MH0001710001303886R00				*RANGE MAP PRODUCT:*	3739MH0001710001303887S00					
mhli00173	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3739MH0001730011303811C00	3811	14021	6.7	4.8	–0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3739MH0001710001303884R00				*RANGE MAP PRODUCT:*	3739MH0001710001303885S00					
mhli00386	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 15 mm											
	3739MH0003860011303821C00	3821	14931	3.2	1.3	–0.1	0.1	18.1	0.2	1608	1198	2.9	2.2
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3739MH0001710001303882R00				*RANGE MAP PRODUCT:*	3739MH0001710001303883S00					
target named Itu													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3739MH0001900011303831C00	3831	13018	26.5	24.6	–1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00173	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3739MH0001730011303833C00	3833	14012	6.8	4.9	–0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3739MH0001710001303880R00				*RANGE MAP PRODUCT:*	3739MH0001710001303881S00					
mhli00173	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3739MH0001730011303843C00	3843	14012	6.8	4.9	–0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3739MH0001710001303878R00				*RANGE MAP PRODUCT:*	3739MH0001710001303879S00					
target named Uraricaa													
mhli00781	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3739MH0007810011303853C00	3853	13028	25.9	24.0	–1.7	1.9	98.0	6.3	1608	1198	15.8	11.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3739MH0001710001303876R00				*RANGE MAP PRODUCT:*	3739MH0001710001303877S00					
mhli00782	INTERMEDIATE-RESOLUTION VIEW	INTENDED STANDOFF – 15 cm											
	3739MH0007820011303864C00	3864	13296	15.8	13.9	–0.7	0.7	62.4	2.4	1608	1198	10.0	7.5
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3739MH0001710001303874R00				*RANGE MAP PRODUCT:*	3739MH0001710001303875S00					

UPDATED: 12_September_2023

SOL 3742 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended sample discard site for planned Dinira drill sample													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3742MH0001900011303889C00	3889	13025	26.0	24.1	–1.7	1.9	98.6	6.4	1608	1198	15.9	11.8
mhli00122	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3742MH0001220011303891C00	3891	14081	6.3	4.4	–0.1	0.1	29.2	0.5	1608	1198	4.7	3.5

UPDATED: 12_September_2023

SOL 3744 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
Dinira attempted (sol 3742) drill hole													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3744MH0001900011303893C00	3893	13022	26.2	24.3	–1.7	2.0	99.2	6.5	1608	1198	16.0	11.9
mhli00774	INTERMEDIATE-RESOLUTION VIEW	INTENDED STANDOFF – 10 cm											
	3744MH0007740011303895C00	3895	13519	11.6	9.7	–0.4	0.4	47.6	1.3	1608	1198	7.7	5.7
mhli00297	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3744MH0002970011303897C00	3897	14038	6.6	4.7	–0.2	0.1	30.1	0.5	1608	1198	4.8	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3744MH0001930001303930R00		*RANGE MAP PRODUCT:*			3744MH0001930001303931S00				
Dinira attempted (sol 3742) drill hole cuttings													
mhli00173	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3744MH0001730011303907C00	3907	13980	7.0	5.1	–0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3744MH0001930001303928R00		*RANGE MAP PRODUCT:*			3744MH0001930001303929S00				
mhli00173	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3744MH0001730011303917C00	3917	13977	7.0	5.1	–0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3744MH0001930001303926R00		*RANGE MAP PRODUCT:*			3744MH0001930001303927S00				

UPDATED: 12_September_2023

SOL 3746 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Cunucunuma													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3746MH0007060011303933C00	3933	13022	26.2	24.3	–1.7	2.0	99.2	6.5	1608	1198	16.0	11.9
mhli00740	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3746MH0007400011303936C00	3936	14013	6.8	4.9	–0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3748MH0001630001304014R00				*RANGE MAP PRODUCT:*	3748MH0001630001304015S00				
mhli00740	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3746MH0007400011303947C00	3947	14046	6.6	4.7	–0.2	0.1	30.0	0.5	1608	1198	4.8	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3748MH0001630001304012R00				*RANGE MAP PRODUCT:*	3748MH0001630001304013S00				
target named Tres_Bocas													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3746MH0007060011303958C00	3958	13030	25.8	23.9	–1.7	1.9	97.6	6.3	1608	1198	15.7	11.7
mhli00699	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3746MH0006990011303961C00	3961	14203	5.7	3.8	–0.1	0.1	26.9	0.4	1608	1198	4.3	3.2
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3748MH0001630001304010R00				*RANGE MAP PRODUCT:*	3748MH0001630001304011S00				
mhli00699	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3746MH0006990011303972C00	3972	14134	6.0	4.1	–0.1	0.1	28.2	0.5	1608	1198	4.5	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3748MH0001630001304008R00				*RANGE MAP PRODUCT:*	3748MH0001630001304009S00				
mhli00699	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 3												
	3746MH0006990011303983C00	3983	14137	6.0	4.1	–0.1	0.1	28.1	0.5	1608	1198	4.5	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3748MH0001630001304006R00				*RANGE MAP PRODUCT:*	3748MH0001630001304007S00				
mhli00699	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 4												
	3746MH0006990011303994C00	3994	14136	6.0	4.1	–0.1	0.1	28.1	0.5	1608	1198	4.5	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3748MH0001630001304004R00				*RANGE MAP PRODUCT:*	3748MH0001630001304005S00				

UPDATED: 12_September_2023

SOL 3749 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Santana													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3749MH0007060011304017C00	4017	13010	27.0	25.1	–1.8	2.1	101.8	6.9	1608	1198	16.4	12.2
mhli00723	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3749MH0007230011304020C00	4020	13967	7.1	5.2	–0.2	0.2	31.8	0.6	1608	1198	5.1	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3749MH0007020001304095R00				*RANGE MAP PRODUCT:*	3749MH0007020001304096S00				
mhli00723	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3749MH0007230011304031C00	4031	13985	6.9	5.0	–0.2	0.2	31.3	0.6	1608	1198	5.0	3.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3749MH0007020001304093R00				*RANGE MAP PRODUCT:*	3749MH0007020001304094S00				
mhli00860	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 3 cm											
	3749MH0008600011304042C00	4042	14328	5.1	3.2	–0.1	0.1	24.8	0.4	1608	1198	4.0	3.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3749MH0007020001304091R00				*RANGE MAP PRODUCT:*	3749MH0007020001304092S00				
target named Soledad													
mhli00678	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3749MH0006780011304053C00	4053	13015	26.6	24.7	–1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3749MH0007020001304089R00				*RANGE MAP PRODUCT:*	3749MH0007020001304090S00				
mhli00709	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3749MH0007090011304064C00	4064	13893	7.6	5.7	–0.2	0.2	33.7	0.7	1608	1198	5.4	4.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3749MH0007020001304087R00				*RANGE MAP PRODUCT:*	3749MH0007020001304088S00				
mhli00709	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3749MH0007090011304075C00	4075	13883	7.7	5.8	–0.2	0.2	33.9	0.7	1608	1198	5.5	4.1
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3749MH0007020001304085R00				*RANGE MAP PRODUCT:*	3749MH0007020001304086S00				

UPDATED: 12_September_2023

SOL 3750 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended drill target named Tapo_Caparo – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3750MH0007060011304098C00	4098	13019	26.4	24.5	−1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00834	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3750MH0008340011304101C00	4101	14012	6.8	4.9	−0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3750MH0001530001304152R00		*RANGE MAP PRODUCT:*			3750MH0001530001304153S00				
mhli00834	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 2												
	3750MH0008340011304112C00	4112	14030	6.7	4.8	−0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3750MH0001530001304150R00		*RANGE MAP PRODUCT:*			3750MH0001530001304151S00				
mhli00801	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	APXS RASTER SPOT 2												
	3750MH0008010011304123C00	4123	15185	2.7	0.8	0.0	0.1	16.3	0.2	1608	1198	2.6	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3750MH0001530001304148R00		*RANGE MAP PRODUCT:*			3750MH0001530001304149S00				
mhli00834	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	APXS RASTER SPOT 1												
	3750MH0008340011304134C00	4134	14015	6.7	4.8	−0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3750MH0001530001304146R00		*RANGE MAP PRODUCT:*			3750MH0001530001304147S00				
intended drill target named Tapo_Caparo – after drill bit pre-load test													
mhli00465	CONTEXT VIEW	INTENDED STANDOFF – 35 cm											
	3750MH0004650011304145C00	4145	12894	36.6	34.7	−3.3	4.0	135.7	12.7	1608	1198	21.8	16.3

UPDATED: 12_September_2023

SOL 3752 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
intended sample discard site for planned Tapo_Caparo drill sample													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3752MH0001900011304155C00	4155	13017	26.5	24.6	−1.8	2.0	100.3	6.6	1608	1198	16.1	12.0

UPDATED: 12_September_2023

SOL 3767 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
Tapo_Caparo drill hole													
mhli00197	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3767MH0001970011304157C00	4157	13029	25.8	23.9	–1.7	1.9	97.8	6.3	1608	1198	15.7	11.7
mhli00774	INTERMEDIATE-RESOLUTION VIEW	INTENDED STANDOFF – 10 cm											
	3767MH0000774011304159C00	4159	13588	10.6	8.7	–0.3	0.3	44.3	1.1	1608	1198	7.1	5.3
Tapo_Caparo drill hole cuttings													
mhli00152	MEDIUM-RESOLUTION VIEW	INTENDED STANDOFF – 5 cm											
	3767MH0001520011304161C00	4161	14114	6.2	4.3	–0.1	0.1	28.6	0.5	1608	1198	4.6	3.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3767MH0002580001304170R00		*RANGE MAP PRODUCT:*			3767MH0002580001304171S00				

UPDATED: 12_September_2023

SOL 3769 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Tucupita													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3769MH0001900011304173C00	4173	13019	26.4	24.5	−1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00182	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3769MH0001820011304175C00	4175	14036	6.6	4.7	−0.2	0.1	30.2	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3769MH0002270001304237R00				*RANGE MAP PRODUCT:*	3769MH0002270001304238S00					
mhli00182	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3769MH0001820011304185C00	4185	14027	6.7	4.8	−0.2	0.1	30.4	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3769MH0002270001304235R00				*RANGE MAP PRODUCT:*	3769MH0002270001304236S00					
mhli00743	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3769MH0007430011304195C00	4195	15185	2.7	0.8	0.0	0.1	16.3	0.2	1608	1198	2.6	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3769MH0002270001304233R00				*RANGE MAP PRODUCT:*	3769MH0002270001304234S00					
target named Mariapiri													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3769MH0007060011304205C00	4205	13028	25.9	24.0	−1.7	1.9	98.0	6.3	1608	1198	15.8	11.7
mhli00721	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3769MH0007210011304208C00	4208	14069	6.4	4.5	−0.1	0.1	29.5	0.5	1608	1198	4.7	3.5
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3769MH0002270001304231R00				*RANGE MAP PRODUCT:*	3769MH0002270001304232S00					
mhli00721	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3769MH0007210011304219C00	4219	14055	6.5	4.6	−0.2	0.1	29.8	0.5	1608	1198	4.8	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3769MH0002270001304229R00				*RANGE MAP PRODUCT:*	3769MH0002270001304230S00					

UPDATED: 12_September_2023

SOL 3770 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
Tapo_Caparo drill hole cuttings													
mhli00148	INTERMEDIATE-RESOLUTION VIEW	INTENDED STANDOFF – 10 cm											
	3770MH0001480011304240C00	4240	13543	11.2	9.3	−0.4	0.4	46.4	1.3	1608	1198	7.5	5.6

UPDATED: 12_September_2023

SOL 3771 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Tamanaco													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3771MH0001900011304242C00	4242	13028	25.9	24.0	–1.7	1.9	98.0	6.3	1608	1198	15.8	11.7
mhli00306	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3771MH0003060011304244C00	4244	14155	5.9	4.0	–0.1	0.1	27.8	0.5	1608	1198	4.5	3.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3771MH0002650001304265R00				*RANGE MAP PRODUCT:*	3771MH0002650001304266S00				
mhli00306	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3771MH0003060011304254C00	4254	14173	5.8	3.9	–0.1	0.1	27.4	0.4	1608	1198	4.4	3.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3771MH0002650001304263R00				*RANGE MAP PRODUCT:*	3771MH0002650001304264S00				

UPDATED: 12_September_2023

SOL 3773 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named San_Rafael – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3773MH0007060011304268C00	4268	13019	26.4	24.5	−1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3773MH0007630011304271C00	4271	14031	6.6	4.7	−0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304445R00					*RANGE MAP PRODUCT:*	3774MH0007280001304446S00				
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3773MH0007630011304282C00	4282	14033	6.6	4.7	−0.2	0.1	30.2	0.5	1608	1198	4.9	3.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304443R00					*RANGE MAP PRODUCT:*	3774MH0007280001304444S00				
mhli00785	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3773MH0007850011304293C00	4293	15183	2.7	0.8	0.0	0.1	16.3	0.2	1608	1198	2.6	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304441R00					*RANGE MAP PRODUCT:*	3774MH0007280001304442S00				
target named San_Francisco_de_Yuruani – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3773MH0007060011304304C00	4304	13017	26.5	24.6	−1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00763	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3773MH0007630011304307C00	4307	13993	6.9	5.0	−0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304439R00					*RANGE MAP PRODUCT:*	3774MH0007280001304440S00				
mhli00763	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3773MH0007630011304318C00	4318	13993	6.9	5.0	−0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304437R00					*RANGE MAP PRODUCT:*	3774MH0007280001304438S00				
mhli00835	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3773MH0008350011304329C00	4329	15091	2.9	1.0	−0.1	0.1	16.9	0.2	1608	1198	2.7	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304435R00					*RANGE MAP PRODUCT:*	3774MH0007280001304436S00				
target named Santa_Elena_de_Uairen – a 1 x 8 mosaic capturing transition from San_Rafael to San_Francisco_de_Yuruani													
mhli00841	POSITION 1 OF 8	INTENDED STANDOFF – 15 cm											
	3773MH0008410011304340C00	4340	13273	16.4	14.5	−0.7	0.7	64.5	2.6	1608	1198	10.4	7.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304433R00					*RANGE MAP PRODUCT:*	3774MH0007280001304434S00				
mhli00841	POSITION 2 OF 8	INTENDED STANDOFF – 15 cm											
	3773MH0008410011304350C00	4350	13248	17.0	15.1	−0.8	0.8	66.8	2.8	1608	1198	10.7	8.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304431R00					*RANGE MAP PRODUCT:*	3774MH0007280001304432S00				
mhli00841	POSITION 3 OF 8	INTENDED STANDOFF – 15 cm											
	3773MH0008410011304360C00	4360	13215	18.0	16.1	−0.9	0.9	70.2	3.1	1608	1198	11.3	8.4
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304429R00					*RANGE MAP PRODUCT:*	3774MH0007280001304430S00				
mhli00841	POSITION 4 OF 8	INTENDED STANDOFF – 15 cm											
	3773MH0008410011304370C00	4370	13194	18.7	16.8	−0.9	1.0	72.6	3.3	1608	1198	11.7	8.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304427R00					*RANGE MAP PRODUCT:*	3774MH0007280001304428S00				
mhli00841	POSITION 5 OF 8	INTENDED STANDOFF – 15 cm											
	3773MH0008410011304380C00	4380	13185	19.0	17.1	−0.9	1.0	73.6	3.4	1608	1198	11.8	8.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304425R00					*RANGE MAP PRODUCT:*	3774MH0007280001304426S00				
mhli00841	POSITION 6 OF 8	INTENDED STANDOFF – 15 cm											
	3773MH0008410011304390C00	4390	13185	19.0	17.1	−0.9	1.0	73.6	3.4	1608	1198	11.8	8.8
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304423R00					*RANGE MAP PRODUCT:*	3774MH0007280001304424S00				
mhli00841	POSITION 7 OF 8	INTENDED STANDOFF – 15 cm											
	3773MH0008410011304400C00	4400	13202	18.4	16.5	−0.9	0.9	71.7	3.2	1608	1198	11.5	8.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304421R00					*RANGE MAP PRODUCT:*	3774MH0007280001304422S00				
mhli00841	POSITION 8 OF 8	INTENDED STANDOFF – 15 cm											
	3773MH0008410011304410C00	4410	13225	17.7	15.8	−0.8	0.9	69.2	3.0	1608	1198	11.1	8.3
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*	3774MH0007280001304419R00					*RANGE MAP PRODUCT:*	3774MH0007280001304420S00				

UPDATED: 12_September_2023

SOL 3776 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
target named Rio_Urubu													
mhli00190	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3776MH0001900011304448C00	4448	13011	26.9	25.0	–1.8	2.1	101.6	6.8	1608	1198	16.3	12.2
mhli00308	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3776MH0003080011304450C00	4450	13933	7.3	5.4	–0.2	0.2	32.6	0.6	1608	1198	5.2	3.9
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3776MH0001930001304483R00				*RANGE MAP PRODUCT:*		3776MH0001930001304484S00			
mhli00308	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3776MH0003080011304460C00	4460	13937	7.3	5.4	–0.2	0.2	32.5	0.6	1608	1198	5.2	3.9
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3776MH0001930001304481R00				*RANGE MAP PRODUCT:*		3776MH0001930001304482S00			
mhli00428	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 2 cm											
	3776MH0004280011304470C00	4470	14535	4.3	2.4	–0.1	0.1	22.0	0.3	1608	1198	3.5	2.6
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3776MH0001930001304479R00				*RANGE MAP PRODUCT:*		3776MH0001930001304480S00			

UPDATED: 12_September_2023

SOL 3778 – MAHLI IMAGE RANGE & SCALE INFORMATION*

*NOTE THAT OTHER IMAGES MIGHT HAVE BEEN ACQUIRED; THIS TABLE DOES NOT DESCRIBE ALL IMAGES; IT DESCRIBES EACH CAMERA POSITIONING.

WORKING DISTANCE IS A PHOTOGRAPHY TERM; IT IS THE RANGE FROM THE MAHLI FRONT LENS ELEMENT(SAPPHIRE WINDOW) TO THE TARGET.

STANDOFF DISTANCE IS MEASURED FROM THE PLANE DEFINED BY THE TIPS OF THE MAHLI CONTACT SENSOR PROBES TO THE TARGET.

RANGE, SCALE AND DOF ARE COMPUTED FROM MOTOR COUNT USING THE EQUATIONS FROM VERSION 2 OF EDGETT ET AL. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

SEQUENCE	IMAGE ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	MOTOR COUNT	RANGE OR WORKING DISTANCE FROM MOTOR COUNT (cm)	STANDOFF (MAHLI TOOLFRAME +X) FROM MOTOR COUNT (cm)	DEPTH OF FIELD ESTIMATE		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (± µm/pixel)	ILLUMINATED PIXELS ON CCD (APPROXIMATE)		IMAGE DIMENSIONS (cm) (APPROXIMATE)	
						NEAR (cm)	FAR (cm)			HORIZ-ONTAL	VERTICAL	HORIZONTAL (CCD COLUMNS)	VERTICAL (CCD ROWS)
REMS UV sensor													
mhli00095	STANDARD VIEWING POSITION	INTENDED STANDOFF: ~15 cm											
	3778MH0000950011304486C00	4486	13256	16.8	14.9	−0.8	0.8	66.1	2.7	1608	1198	10.6	7.9
target named Marabitana – after DRT													
mhli00706	CONTEXT VIEW	INTENDED STANDOFF – 25 cm											
	3778MH0007060011304488C00	4488	13018	26.5	24.6	−1.8	2.0	100.0	6.6	1608	1198	16.1	12.0
mhli00168	MEDIUM-RESOLUTION STEREO-1	INTENDED STANDOFF – 5 cm											
	3778MH0001680011304491C00	4491	13998	6.9	5.0	−0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3778MH0001930001304524R00		*RANGE MAP PRODUCT:*			3778MH0001930001304525S00				
mhli00168	MEDIUM-RESOLUTION STEREO-2	INTENDED STANDOFF – 5 cm											
	3778MH0001680011304501C00	4501	13999	6.9	5.0	−0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3778MH0001930001304522R00		*RANGE MAP PRODUCT:*			3778MH0001930001304523S00				
mhli00848	HIGH RESOLUTION VIEW	INTENDED STANDOFF – 1 cm											
	3778MH0008480011304511C00	4511	15117	2.8	0.9	−0.1	0.1	16.8	0.2	1608	1198	2.7	2.0
	CORRESPONDING FOCUS MERGE PRODUCTS:	*BEST FOCUS PRODUCT:*		3778MH0001930001304520R00		*RANGE MAP PRODUCT:*			3778MH0001930001304521S00				

5 Focus merge product information

5.1 Purpose and description

The MAHLI *Focus Merge Product Information Sheets* provide information about the best focus and range map products created by focus merges performed onboard the MAHLI instrument.

The information includes:

1. thumbnail images representing the appearance of each best focus and range map product;

2. a brief title or description of the image target and purpose;

3. the Sol and date (UTC) that the merged parent images were acquired;

4. the Sol on which the focus merge took place,

5. image IDs for the focus merge products and a corresponding full-frame image;

6. the MAHLI command sequence that acquired the parent images and the command sequence that created the focus merge products;

7. the commanded stack depth; that is, the number of parent images acquired in a given focus stack;

8. the type of focus stack (relative or absolute; see definitions in **Section 7**);

9. a list of the thumbnail image IDs for the parent images acquired in the focus stack (because, in some cases, these are the only versions of the focus stack images that are received on Earth);

10. the focus position (stepper motor count) for each parent image in the focus stack;

11. the range and range uncertainty determined from the focus position (motor count) of each parent image; and

12. the grayscale DN value corresponding to each parent image motor count and range in the focus merge range map product.

Further, for each parent image, the *Focus Merge Product Information Sheets* state whether any of the full-size images (Individual Focus Stack Images) were received on Earth, listing:

13. the image ID of the full-size parent or child image, if received on Earth;

14. the date on which the full-size image was received (applicable only to *Focus Merge Product Information Sheets* for the period between Sol 0 and 946 after that, with the exception of Sol 930, this practice was abandoned as unnecessary);

15. the compression quality of the best version of the image, if received on Earth (this practice was later abandoned as unnecessary); and

16. a statement regarding the fate of parent images not received on Earth; that is, the Sol on which the parent was deleted from the data storage inside the instrument's digital electronics assembly (DEA).

Each MAHLI *Focus Merge Product Information Sheet* is identified by the Sol on which the parent images were acquired. The onboard merge, in some cases, might have been performed on a later sol.

The parent images identified in rows that are colored orange, if they have a corresponding DN value in a yellow-colored column, are those that participated in the creation of the focus merge product. In other words, those that are in white rows (for which there is a corresponding DN in the yellow column) had no in-focus elements and thus were not incorporated into the merged product, even if they had been commanded to be merged. Which images were commanded to be merged can be determined by the yellow-colored column that indicates the corresponding DN values in the range map image product; for cases in which the commanded focus stack depth is > 8, the corresponding DN values (yellow-colored column) will indicate the 8 commanded to be merged (the instrument cannot merge > 8 but it can acquire > 8 images in a focus stack).

In cases in which the focus stack parent images were returned to Earth, the data user has the option to perform a new focus merge using software approaches available on Earth, now or in the future, which might outperform the MAHLI onboard algorithm. The user also has the opportunity, in these cases, to improve each parent image before performing the merge (*e.g.*, remove blemishes, perform flat field correction, etc.).

When a > 8 image focus stack has been acquired, the orange-colored rows can *also* indicate recommendations for images that would contain in-focus elements and could be added to a future focus merge product, whether performed onboard MAHLI or on Earth after receipt of the full-size images. Those images that are recommended, but were not merged onboard, have no "Corresponding DN in Range Map" in the yellow, rightmost columns of the *Focus Merge Product Information Sheets.*

For the Sol 3645–3778 period, focus stacks that were merged onboard the instrument were acquired on **Sols 3646, 3648, 3650, 3657, 3664, 3665, 3667, 3671, 3674, 3677, 3682, 3684, 3688, 3689, 3699, 3702, 3705, 3708, 3712, 3715, 3716, 3721, 3723, 3725, 3728, 3730, 3732, 3735, 3737, 3739, 3744, 3746, 3749, 3750, 3767, 3769, 3771, 3773, 3776, 3778**. Unless otherwise stated, the onboard focus merges performed during this period were all of the "basic" type (see Edgett *et al.* 2012; Edgett *et al.* 2015).

5.2 Formulae

5.2.1 Range

When acquiring a focus stack, the MAHLI camera head is held in a fixed position. This means that the working distance (d_w) — and corresponding standoff distance (d_s) — is constant (see **Section 5.2.5**). However, each image acquired in a focus stack is done so at a different focus

position; that is, a different stepper motor count position (m_{open} or m_{closed}; usually m_{open}). That motor count is related to the range (r_{fm}) between the front lens element of the camera and the in-focus elements of the image by the same empirical formula (**Equation 1**) as applied to determine working distance from motor count. In centimeters,

$$r_{fm} = (am_{open}^{-1} + b + cm_{open} + dm_{open}^{2} + em_{open}^{3})^{-1}, \quad (12)$$

in which $a = 0.576786$, $b = -11.8479$, $c = 2.80153\times10^{-3}$, $d = -2.266488\times10^{-7}$, and $e = 6.26666\times10^{-12}$.

For each parent image in a given focus stack, this range is given in the green-colored column on the right side of each MAHLI *Focus Merge Product Information Sheet*.

5.2.2 Range uncertainty estimate

The uncertainty ($\pm r_{uncertainty}$, in centimeters) in the computed range (r_{fm}) is estimated using depth of field as related to the corresponding range (via motor count; **Equation 12**) for each merged parent image. The range uncertainty estimate is noted in the light green column on the lower right side of each MAHLI *Focus Merge Product Information Sheet*.

Focus Merge Product Information Sheets in which the relevant column is labeled "Estimated Range Uncertainty"

For MAHLI *Focus Merge Product Information Sheets* created before Sol 942, our estimate of range uncertainty was based on the older (Edgett *et al.* 2013) depth of field equations described in **Section 4.2.3**, **Equations 4, 5, and 6**, in which we substituted r_{fm} for d_w.

Focus Merge Product Information Sheets in which the relevant column is labeled "Depth of Field"

For MAHLI *Focus Merge Product Information Sheets* created starting with Sol 942, we used the refined knowledge of MAHLI depth of field, described by Edgett *et al.* (2015) and in **Equation 7** of **Section 4.2.3** to determine d_{far} and d_{near} for each focus stack parent image motor count. The resulting range uncertainty estimate ($\pm r_{uncertainty}$, in centimeters) reported in the light green column on the lower right side of the corresponding *Focus Merge Product Information Sheet* is estimated by the average of the absolute values of d_{far} and d_{near}:

$$\pm r_{uncertainty} = ((-d_{near}) + d_{far})/2. \quad (13)$$

Alternatively, particularly after Sol 1000, the depth of field is reported in the form of both the near and far (d_{far} and d_{near}) depths of field, per **Equation 7**.

5.2.3 Corresponding DN in range map product

Focus merge range map products created onboard MAHLI are returned as grayscale JPEG compressed images. The pixel values (DN) range from 0 to 255. These are assigned by the onboard software on the basis of commanded focus stack depth. The table below, from Edgett *et al.* (2015), shows the relationship between each image commanded to be focus merged and its corresponding grayscale DN value in a MAHLI range map product. In other words, if the instrument is commanded to merge eight images, DN values are assigned according to the

second column in the table; if commanded to merge only four images, the corresponding DN values are those in the sixth column. Thus, each DN in a range map product can be related to a motor count position and a corresponding range via linear interpolation between these values.

Relation between commanded image participant in an onboard MAHLI focus merge and range map grayscale data value (DN)							
image commanded to be merged	**DN for 8-image merge**	**DN for 7-image merge**	**DN for 6-image merge**	**DN for 5-image merge**	**DN for 4-image merge**	**DN for 3-image merge**	**DN for 2-image merge**
1st	255	255	255	255	255	255	255
2nd	223	218	212	204	191	170	127
3rd	191	182	170	153	127	84	—
4th	159	145	127	102	63	—	—
5th	127	109	84	51	—	—	—
6th	95	72	42	—	—	—	—
7th	63	36	—	—	—	—	—
8th	31	—	—	—	—	—	—

5.2.4 Determination of which parent images participated in a given focus merge product (orange rows)

Focus merge parent images in the orange-colored rows on each of the *Focus Merge Product Information Sheets* are an indicator of the images that were actually merged. A merge of up to 8 images might be commanded, but perhaps only 3, 4, or 5 of them actually exhibit in-focus elements the get incorporated into the best focus image product.

As discussed by Edgett *et al.* (2015), the parent images that were actually merged, relative to the number commanded to be merged (indicated by the number of yellow-colored rows regarding the corresponding DN in the range map products on the right side of each *Focus Merge Product Information Sheet*), are determined by the range of grayscale DN, between 0 and 255, in the focus merge range map product. For example, if the DN range of this product is 71 to 138, then only four of 8 images commanded to be merged participated in that merge, per the DN values corresponding to an 8-image focus merge, per the table above.

5.2.5 Camera working distance and standoff distance

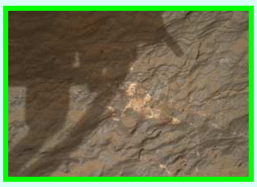
For a given focus stack, the distance between the MAHLI camera head and an imaged target can be determined from a corresponding image acquired via autofocusing (assuming the autofocus effort found focus). In other words, while the range between the camera and the in-focus elements of a parent image are captured by the individual parent images in the focus stack (**Section 5.2.1**), the camera acquired the stack from a fixed working distance. On the MAHLI *Focus Merge Product Information Sheets*, the corresponding autofocused image, and its stepper motor count focus position, are stated on the left side of the sheet, beneath the thumbnail images, in rows and columns colored light blue.

For some *Focus Merge Product Information Sheets*, the working distance (d_w) and standoff distance (d_s) are provided in these blue rows and columns. These were computed from the

motor count position using the same formulae for d_w and d_s described in **Section 4.2** (**Equations 1 and 3**, respectively). Where these values are not given, the data user can apply **Equations 1 and 3** to the motor count, or use the corresponding full-frame image ID to identify the working distance and standoff distance using the *Range and Scale Information Sheets* for that Sol. We began to regularly provide a result for d_w and d_s starting with Sol 694; before that, the cases in which these values are not given are a reflection of the evolution of the production and content of the MAHLI *Focus Merge Product Information Sheets* over time.

UPDATED: 12_September_2023

SOL 3646 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



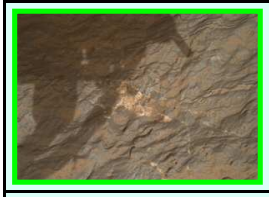

target Acara – stereo-1 – ~85 mm standoff

		CDPID	CORRESPONDING FRAME:	3646MH0008580011301804C00				
BEST FOCUS IMAGE:	3646MH0001530001301856R00	1856	MOTOR COUNT:	13594	RANGE (cm):	10.5		
RANGE MAP PRODUCT:	3646MH0001530001301857S00	1857	ACQUIRED SEQUENCE:	mhli00858	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	8-Nov-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3646	FOCUS MERGED ON SOL:	3646			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3646MH0008580031301806C00	1806	13402	13.51	-0.5	0.5	54.5	1.8	255	1
3646MH0008580031301807C00	1807	13450	12.65	-0.5	0.4	51.4	1.6	223	2
3646MH0008580031301808C00	1808	13498	11.88	-0.4	0.4	48.7	1.4	191	3
3646MH0008580031301809C00	1809	13546	11.18	-0.4	0.4	46.3	1.3	159	4
3646MH0008580031301810C00	1810	13594	10.55	-0.3	0.3	44.0	1.1	127	5
3646MH0008580031301811C00	1811	13642	9.97	-0.3	0.3	42.0	1.0	95	6
3646MH0008580031301812C00	1812	13690	9.43	-0.3	0.3	40.1	0.9	63	7
3646MH0008580031301813C00	1813	13738	8.95	-0.3	0.2	38.4	0.9	31	8

UPDATED: 12_September_2023

SOL 3646 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Acara – stereo-2 – ~85 mm standoff

		CDPID	CORRESPONDING FRAME:	3646MH0008580011301815C00				
BEST FOCUS IMAGE:	3646MH0001530001301854R00	1854	MOTOR COUNT:	13596	RANGE (cm):	10.5		
RANGE MAP PRODUCT:	3646MH0001530001301855S00	1855	ACQUIRED SEQUENCE:	mhli00858	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	8-Nov-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3646	FOCUS MERGED ON SOL:	3646			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3646MH0008580031301817C00	1817	13404	13.47	-0.5	0.5	54.3	1.8	255	1
3646MH0008580031301818C00	1818	13452	12.62	-0.5	0.4	51.3	1.6	223	2
3646MH0008580031301819C00	1819	13500	11.85	-0.4	0.4	48.6	1.4	191	3
3646MH0008580031301820C00	1820	13548	11.15	-0.4	0.4	46.2	1.3	159	4
3646MH0008580031301821C00	1821	13596	10.52	-0.3	0.3	43.9	1.1	127	5
3646MH0008580031301822C00	1822	13644	9.94	-0.3	0.3	41.9	1.0	95	6
3646MH0008580031301823C00	1823	13692	9.41	-0.3	0.3	40.0	0.9	63	7
3646MH0008580031301824C00	1824	13740	8.93	-0.3	0.2	38.3	0.9	31	8

UPDATED: 12_September_2023

SOL 3646 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Ixi – stereo-1 – ~9 cm standoff

			CDPID	CORRESPONDING FRAME:	3646MH0008520011301829C00				
BEST FOCUS IMAGE:	3646MH0001530001301852R00		1852	MOTOR COUNT:	13565	RANGE (cm):	10.9		
RANGE MAP PRODUCT:	3646MH0001530001301853S00		1853	ACQUIRED SEQUENCE:	mhli00852	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	8-Nov-22			MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3646	FOCUS MERGED ON SOL:	3646				

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3646MH0008520031301831C00	1831	13445	12.74	-0.5	0.5	51.7	1.6	255	1
3646MH0008520031301832C00	1832	13475	12.24	-0.4	0.4	50.0	1.5	223	2
3646MH0008520031301833C00	1833	13505	11.77	-0.4	0.4	48.3	1.4	191	3
3646MH0008520031301834C00	1834	13535	11.34	-0.4	0.4	46.8	1.3	159	4
3646MH0008520031301835C00	1835	13565	10.92	-0.4	0.3	45.4	1.2	127	5
3646MH0008520031301836C00	1836	13595	10.53	-0.3	0.3	44.0	1.1	95	6
3646MH0008520031301837C00	1837	13625	10.17	-0.3	0.3	42.7	1.1	63	7
3646MH0008520031301838C00	1838	13655	9.82	-0.3	0.3	41.5	1.0	31	8

UPDATED: 12_September_2023

SOL 3646 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



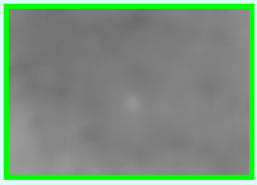

target Ixi – stereo-2 – ~9 cm standoff

			CDPID	CORRESPONDING FRAME:	3646MH0008520011301840C00				
BEST FOCUS IMAGE:	3646MH0001530001301850R00		1850	MOTOR COUNT:	13565	RANGE (cm):	10.9		
RANGE MAP PRODUCT:	3646MH0001530001301851S00		1851	ACQUIRED SEQUENCE:	mhli00852	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	8-Nov-22			MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3646	FOCUS MERGED ON SOL:	3646				

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3646MH0008520031301842C00	1842	13445	12.74	-0.5	0.5	51.7	1.6	255	1
3646MH0008520031301843C00	1843	13475	12.24	-0.4	0.4	50.0	1.5	223	2
3646MH0008520031301844C00	1844	13505	11.77	-0.4	0.4	48.3	1.4	191	3
3646MH0008520031301845C00	1845	13535	11.34	-0.4	0.4	46.8	1.3	159	4
3646MH0008520031301846C00	1846	13565	10.92	-0.4	0.3	45.4	1.2	127	5
3646MH0008520031301847C00	1847	13595	10.53	-0.3	0.3	44.0	1.1	95	6
3646MH0008520031301848C00	1848	13625	10.17	-0.3	0.3	42.7	1.1	63	7
3646MH0008520031301849C00	1849	13655	9.82	-0.3	0.3	41.5	1.0	31	8

UPDATED: 12_September_2023

SOL 3648 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

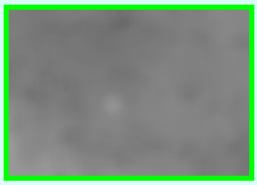
target Cana – after DRT – stereo-1 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3648MH0006990011301862C00				
BEST FOCUS IMAGE:	3648MH0002270001301927R00	1927	MOTOR COUNT:	14109	RANGE (cm):	6.2		
RANGE MAP PRODUCT:	3648MH0002270001301928S00	1928	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	10-Nov-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3648	FOCUS MERGED ON SOL:	3648			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3648MH0006990031301864C00	1864	13989	6.92	-0.2	0.2	31.2	0.6	255	1
3648MH0006990031301865C00	1865	14019	6.72	-0.2	0.2	30.6	0.6	223	2
3648MH0006990031301866C00	1866	14049	6.53	-0.2	0.1	29.9	0.5	191	3
3648MH0006990031301867C00	1867	14079	6.35	-0.2	0.1	29.3	0.5	159	4
3648MH0006990031301868C00	1868	14109	6.18	-0.1	0.1	28.7	0.5	127	5
3648MH0006990031301869C00	1869	14139	6.01	-0.1	0.1	28.1	0.5	95	6
3648MH0006990031301870C00	1870	14169	5.85	-0.1	0.1	27.5	0.4	63	7
3648MH0006990031301871C00	1871	14199	5.70	-0.1	0.1	27.0	0.4	31	8

UPDATED: 12_September_2023

SOL 3648 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Cana – after DRT – stereo-2 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3648MH0006990011301873C00				
BEST FOCUS IMAGE:	3648MH0002270001301925R00	1925	MOTOR COUNT:	14110	RANGE (cm):	6.2		
RANGE MAP PRODUCT:	3648MH0002270001301926S00	1926	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	10-Nov-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3648	FOCUS MERGED ON SOL:	3648			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3648MH0006990031301875C00	1875	13990	6.91	-0.2	0.2	31.2	0.6	255	1
3648MH0006990031301876C00	1876	14020	6.71	-0.2	0.2	30.5	0.6	223	2
3648MH0006990031301877C00	1877	14050	6.53	-0.2	0.1	29.9	0.5	191	3
3648MH0006990031301878C00	1878	14080	6.35	-0.2	0.1	29.2	0.5	159	4
3648MH0006990031301879C00	1879	14110	6.17	-0.1	0.1	28.6	0.5	127	5
3648MH0006990031301880C00	1880	14140	6.01	-0.1	0.1	28.0	0.5	95	6
3648MH0006990031301881C00	1881	14170	5.85	-0.1	0.1	27.5	0.4	63	7
3648MH0006990031301882C00	1882	14200	5.69	-0.1	0.1	26.9	0.4	31	8

UPDATED: 12_September_2023

SOL 3648 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Cana – after DRT – ~2 mm standoff

		CDPID	CORRESPONDING FRAME:	3648MH0008230011301884C00				
BEST FOCUS IMAGE:	3648MH0002270001301923R00	1923	MOTOR COUNT:	15534	RANGE (cm):	2.1		
RANGE MAP PRODUCT:	3648MH0002270001301924S00	1924	ACQUIRED SEQUENCE:	mhli00823	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	10-Nov-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	60	ACQUIRED ON SOL:	3648	FOCUS MERGED ON SOL:	3648			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3648MH0008230031301886C00	1886	15294	2.49	0.0	0.1	15.7	0.2	255	1
3648MH0008230031301887C00	1887	15354	2.39	0.0	0.1	15.3	0.2	223	2
3648MH0008230031301888C00	1888	15414	2.30	0.0	0.1	15.0	0.2	191	3
3648MH0008230031301889C00	1889	15474	2.21	0.0	0.1	14.7	0.2	159	4
3648MH0008230031301890C00	1890	15534	2.13	0.0	0.0	14.4	0.1	127	5
3648MH0008230031301891C00	1891	15594	2.05	0.0	0.0	14.1	0.1	95	6
3648MH0008230031301892C00	1892	15654	2.04	0.0	0.0	14.0	0.1	63	7
3648MH0008230031301893C00	1893	15714	2.04	0.0	0.0	14.0	0.1	31	8

UPDATED: 12_September_2023

SOL 3648 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



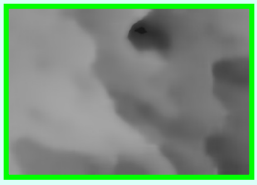

target Dalbana – stereo-1 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3648MH0007210011301898C00				
BEST FOCUS IMAGE:	3648MH0002270001301921R00	1921	MOTOR COUNT:	14170	RANGE (cm):	5.8		
RANGE MAP PRODUCT:	3648MH0002270001301922S00	1922	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	10-Nov-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3648	FOCUS MERGED ON SOL:	3648			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3648MH0007210031301900C00	1900	14002	6.83	-0.2	0.2	30.9	0.6	255	1
3648MH0007210031301901C00	1901	14044	6.56	-0.2	0.1	30.0	0.5	223	2
3648MH0007210031301902C00	1902	14086	6.31	-0.1	0.1	29.1	0.5	191	3
3648MH0007210031301903C00	1903	14128	6.07	-0.1	0.1	28.3	0.5	159	4
3648MH0007210031301904C00	1904	14170	5.85	-0.1	0.1	27.5	0.4	127	5
3648MH0007210031301905C00	1905	14212	5.63	-0.1	0.1	26.7	0.4	95	6
3648MH0007210031301906C00	1906	14254	5.43	-0.1	0.1	26.0	0.4	63	7
3648MH0007210031301907C00	1907	14296	5.24	-0.1	0.1	25.3	0.4	31	8

UPDATED: 12_September_2023

SOL 3648 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Dalbana – stereo-2 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3648MH0007210011301909C00			
BEST FOCUS IMAGE:	3648MH0002270001301919R00	1919	MOTOR COUNT:	14187	RANGE (cm):	5.8	
RANGE MAP PRODUCT:	3648MH0002270001301920S00	1920	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	10-Nov-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3648	FOCUS MERGED ON SOL:	3648		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3648MH0007210031301911C00	1911	14019	6.72	-0.2	0.2	30.6	0.6	255	1
3648MH0007210031301912C00	1912	14061	6.46	-0.2	0.1	29.6	0.5	223	2
3648MH0007210031301913C00	1913	14103	6.21	-0.1	0.1	28.8	0.5	191	3
3648MH0007210031301914C00	1914	14145	5.98	-0.1	0.1	28.0	0.5	159	4
3648MH0007210031301915C00	1915	14187	5.76	-0.1	0.1	27.2	0.4	127	5
3648MH0007210031301916C00	1916	14229	5.55	-0.1	0.1	26.4	0.4	95	6
3648MH0007210031301917C00	1917	14271	5.35	-0.1	0.1	25.7	0.4	63	7
3648MH0007210031301918C00	1918	14313	5.16	-0.1	0.1	25.1	0.4	31	8

UPDATED: 12_September_2023

SOL 3650 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



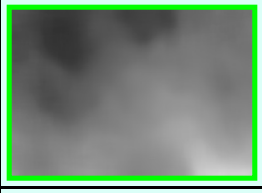

target Jutai – APXS spot 2 – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3650MH0001820011301932C00			
BEST FOCUS IMAGE:	3651MH0001710001302025R00	2025	MOTOR COUNT:	14001	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3651MH0001710001302026S00	2026	ACQUIRED SEQUENCE:	mhli00182	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	12-Nov-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3650	FOCUS MERGED ON SOL:	3651		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3650MH0001820021301933C00	1933	13905	7.51	-0.2	0.2	33.3	0.7	255	1
3650MH0001820021301934C00	1934	13929	7.33	-0.2	0.2	32.7	0.6	223	2
3650MH0001820021301935C00	1935	13953	7.16	-0.2	0.2	32.1	0.6	191	3
3650MH0001820021301936C00	1936	13977	7.00	-0.2	0.2	31.5	0.6	159	4
3650MH0001820021301937C00	1937	14001	6.84	-0.2	0.2	31.0	0.6	127	5
3650MH0001820021301938C00	1938	14025	6.68	-0.2	0.2	30.4	0.6	95	6
3650MH0001820021301939C00	1939	14049	6.53	-0.2	0.1	29.9	0.5	63	7
3650MH0001820021301940C00	1940	14073	6.39	-0.2	0.1	29.4	0.5	31	8

UPDATED: 12_September_2023

SOL 3650 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

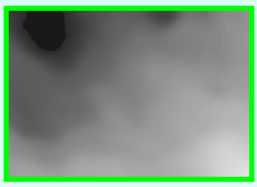
target Jutai – APXS spot 2 – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3650MH0001820011301942C00			
BEST FOCUS IMAGE:	3651MH0001710001302023R00	2023	MOTOR COUNT:	13998	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3651MH0001710001302024S00	2024	ACQUIRED SEQUENCE:	mhli00182	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	12-Nov-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3650	FOCUS MERGED ON SOL:	3651		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3650MH0001820021301943C00	1943	13902	7.53	-0.2	0.2	33.4	0.7	255	1
3650MH0001820021301944C00	1944	13926	7.36	-0.2	0.2	32.8	0.6	223	2
3650MH0001820021301945C00	1945	13950	7.18	-0.2	0.2	32.2	0.6	191	3
3650MH0001820021301946C00	1946	13974	7.02	-0.2	0.2	31.6	0.6	159	4
3650MH0001820021301947C00	1947	13998	6.86	-0.2	0.2	31.0	0.6	127	5
3650MH0001820021301948C00	1948	14022	6.70	-0.2	0.2	30.5	0.6	95	6
3650MH0001820021301949C00	1949	14046	6.55	-0.2	0.1	30.0	0.5	63	7
3650MH0001820021301950C00	1950	14070	6.41	-0.2	0.1	29.4	0.5	31	8

UPDATED: 12_September_2023

SOL 3650 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

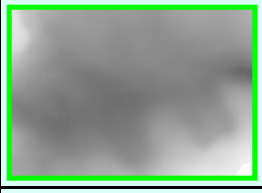
target Jutai – APXS spot 2 – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3650MH0001840011301952C00			
BEST FOCUS IMAGE:	3651MH0001710001302021R00	2021	MOTOR COUNT:	14696	RANGE (cm):	3.8	
RANGE MAP PRODUCT:	3651MH0001710001302022S00	2022	ACQUIRED SEQUENCE:	mhli00184	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	12–Nov–22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3650	FOCUS MERGED ON SOL:	3651		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3650MH0001840021301953C00	1953	14552	4.24	-0.1	0.1	21.8	0.3	255	1
3650MH0001840021301954C00	1954	14588	4.12	-0.1	0.1	21.4	0.3	223	2
3650MH0001840021301955C00	1955	14624	4.01	-0.1	0.1	21.0	0.3	191	3
3650MH0001840021301956C00	1956	14660	3.90	-0.1	0.1	20.6	0.3	159	4
3650MH0001840021301957C00	1957	14696	3.80	-0.1	0.1	20.3	0.3	127	5
3650MH0001840021301958C00	1958	14732	3.69	-0.1	0.1	19.9	0.3	95	6
3650MH0001840021301959C00	1959	14768	3.60	-0.1	0.1	19.6	0.3	63	7
3650MH0001840021301960C00	1960	14804	3.50	-0.1	0.1	19.2	0.3	31	8

UPDATED: 12_September_2023

SOL 3650 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Jutai – APXS spot 1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3650MH0001820011301962C00			
BEST FOCUS IMAGE:	3651MH0001710001302019R00	2019	MOTOR COUNT:	14010	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3651MH0001710001302020S00	2020	ACQUIRED SEQUENCE:	mhli00182	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	12–Nov–22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3650	FOCUS MERGED ON SOL:	3651		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3650MH0001820021301963C00	1963	13914	7.44	-0.2	0.2	33.1	0.7	255	1
3650MH0001820021301964C00	1964	13938	7.27	-0.2	0.2	32.5	0.6	223	2
3650MH0001820021301965C00	1965	13962	7.10	-0.2	0.2	31.9	0.6	191	3
3650MH0001820021301966C00	1966	13986	6.94	-0.2	0.2	31.3	0.6	159	4
3650MH0001820021301967C00	1967	14010	6.78	-0.2	0.2	30.8	0.6	127	5
3650MH0001820021301968C00	1968	14034	6.63	-0.2	0.2	30.2	0.6	95	6
3650MH0001820021301969C00	1969	14058	6.48	-0.2	0.1	29.7	0.5	63	7
3650MH0001820021301970C00	1970	14082	6.33	-0.2	0.1	29.2	0.5	31	8

UPDATED: 12_September_2023

SOL 3650 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Raposa – after DRT – stereo-1 – relief model position 1 – ~5 cm standoff

			CDPID	CORRESPONDING FRAME:	3650MH0007630011301975C00			
BEST FOCUS IMAGE:	3651MH0001710001302017R00		2017	MOTOR COUNT:	14006	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3651MH0001710001302018S00		2018	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	12-Nov-22			MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24		ACQUIRED ON SOL:	3650	FOCUS MERGED ON SOL:	3651		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3650MH0007630031301977C00	1977	13910	7.47	-0.2	0.2	33.2	0.7	255	1
3650MH0007630031301978C00	1978	13934	7.30	-0.2	0.2	32.6	0.6	223	2
3650MH0007630031301979C00	1979	13958	7.13	-0.2	0.2	32.0	0.6	191	3
3650MH0007630031301980C00	1980	13982	6.96	-0.2	0.2	31.4	0.6	159	4
3650MH0007630031301981C00	1981	14006	6.80	-0.2	0.2	30.9	0.6	127	5
3650MH0007630031301982C00	1982	14030	6.65	-0.2	0.2	30.3	0.6	95	6
3650MH0007630031301983C00	1983	14054	6.50	-0.2	0.1	29.8	0.5	63	7
3650MH0007630031301984C00	1984	14078	6.36	-0.2	0.1	29.3	0.5	31	8

UPDATED: 12_September_2023

SOL 3650 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Raposa – after DRT – stereo-2 – relief model position 2 – ~5 cm standoff

			CDPID	CORRESPONDING FRAME:	3650MH0007630011301986C00			
BEST FOCUS IMAGE:	3651MH0001710001302015R00		2015	MOTOR COUNT:	14011	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3651MH0001710001302016S00		2016	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	12-Nov-22			MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24		ACQUIRED ON SOL:	3650	FOCUS MERGED ON SOL:	3651		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3650MH0007630031301988C00	1988	13915	7.44	-0.2	0.2	33.1	0.6	255	1
3650MH0007630031301989C00	1989	13939	7.26	-0.2	0.2	32.5	0.6	223	2
3650MH0007630031301990C00	1990	13963	7.09	-0.2	0.2	31.9	0.6	191	3
3650MH0007630031301991C00	1991	13987	6.93	-0.2	0.2	31.3	0.6	159	4
3650MH0007630031301992C00	1992	14011	6.77	-0.2	0.2	30.7	0.6	127	5
3650MH0007630031301993C00	1993	14035	6.62	-0.2	0.2	30.2	0.6	95	6
3650MH0007630031301994C00	1994	14059	6.47	-0.2	0.1	29.7	0.5	63	7
3650MH0007630031301995C00	1995	14083	6.33	-0.2	0.1	29.2	0.5	31	8

UPDATED: 12_September_2023

SOL 3650 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Raposa – after DRT – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3650MH0008240011302003C00			
BEST FOCUS IMAGE:	3651MH0001710001302013R00	2013	MOTOR COUNT:	14695	RANGE (cm):	3.8	
RANGE MAP PRODUCT:	3651MH0001710001302014S00	2014	ACQUIRED SEQUENCE:	mhli00824	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	12-Nov-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3650	FOCUS MERGED ON SOL:	3651		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3650MH0008240031302005C00	2005	14527	4.33	-0.1	0.1	22.1	0.3	255	1
3650MH0008240031302006C00	2006	14569	4.19	-0.1	0.1	21.6	0.3	223	2
3650MH0008240031302007C00	2007	14611	4.05	-0.1	0.1	21.2	0.3	191	3
3650MH0008240031302008C00	2008	14653	3.92	-0.1	0.1	20.7	0.3	159	4
3650MH0008240031302009C00	2009	14695	3.80	-0.1	0.1	20.3	0.3	127	5
3650MH0008240031302010C00	2010	14737	3.68	-0.1	0.1	19.9	0.3	95	6
3650MH0008240031302011C00	2011	14779	3.57	-0.1	0.1	19.5	0.3	63	7
3650MH0008240031302012C00	2012	14821	3.46	-0.1	0.1	19.1	0.3	31	8

UPDATED: 12_September_2023

SOL 3657 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Rio_Jufari – after DRT – stereo-1 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3657MH0006990011302031C00			
BEST FOCUS IMAGE:	3657MH0001630001302109R00	2109	MOTOR COUNT:	14031	RANGE (cm):	6.6	
RANGE MAP PRODUCT:	3657MH0001630001302110S00	2110	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Nov-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3657	FOCUS MERGED ON SOL:	3657		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3657MH0006990031302033C00	2033	13911	7.47	-0.2	0.2	33.2	0.7	255	1
3657MH0006990031302034C00	2034	13941	7.25	-0.2	0.2	32.4	0.6	223	2
3657MH0006990031302035C00	2035	13971	7.04	-0.2	0.2	31.7	0.6	191	3
3657MH0006990031302036C00	2036	14001	6.84	-0.2	0.2	31.0	0.6	159	4
3657MH0006990031302037C00	2037	14031	6.64	-0.2	0.2	30.3	0.6	127	5
3657MH0006990031302038C00	2038	14061	6.46	-0.2	0.1	29.6	0.5	95	6
3657MH0006990031302039C00	2039	14091	6.28	-0.1	0.1	29.0	0.5	63	7
3657MH0006990031302040C00	2040	14121	6.11	-0.1	0.1	28.4	0.5	31	8

UPDATED: 12_September_2023

SOL 3657 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Rio_Jufari – after DRT – stereo-2 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3657MH0006990011302042C00			
BEST FOCUS IMAGE:	3657MH0001630001302107R00	2107	MOTOR COUNT:	14033	RANGE (cm):	6.6	
RANGE MAP PRODUCT:	3657MH0001630001302108S00	2108	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Nov-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3657	FOCUS MERGED ON SOL:	3657		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3657MH0006990031302044C00	2044	13913	7.45	-0.2	0.2	33.1	0.7	255	1
3657MH0006990031302045C00	2045	13943	7.23	-0.2	0.2	32.4	0.6	223	2
3657MH0006990031302046C00	2046	13973	7.02	-0.2	0.2	31.6	0.6	191	3
3657MH0006990031302047C00	2047	14003	6.82	-0.2	0.2	30.9	0.6	159	4
3657MH0006990031302048C00	2048	14033	6.63	-0.2	0.2	30.2	0.6	127	5
3657MH0006990031302049C00	2049	14063	6.45	-0.2	0.1	29.6	0.5	95	6
3657MH0006990031302050C00	2050	14093	6.27	-0.1	0.1	29.0	0.5	63	7
3657MH0006990031302051C00	2051	14123	6.10	-0.1	0.1	28.4	0.5	31	8

UPDATED: 12_September_2023

SOL 3657 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



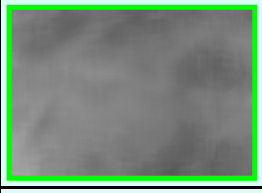

target Rio_Jufari – after DRT – ~15 mm standoff

			CDPID	CORRESPONDING FRAME:	3657MH0008000011302053C00			
BEST FOCUS IMAGE:	3657MH0001630001302105R00		2105	MOTOR COUNT:	14749	RANGE (cm):	3.6	
RANGE MAP PRODUCT:	3657MH0001630001302106S00		2106	ACQUIRED SEQUENCE:	mhli00800	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19–Nov–22			MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3657	FOCUS MERGED ON SOL:	3657			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3657MH0008000031302055C00	2055	14533	4.31	–0.1	0.1	22.1	0.3	255	1
3657MH0008000031302056C00	2056	14587	4.13	–0.1	0.1	21.4	0.3	223	2
3657MH0008000031302057C00	2057	14641	3.96	–0.1	0.1	20.8	0.3	191	3
3657MH0008000031302058C00	2058	14695	3.80	–0.1	0.1	20.3	0.3	159	4
3657MH0008000031302059C00	2059	14749	3.65	–0.1	0.1	19.7	0.3	127	5
3657MH0008000031302060C00	2060	14803	3.50	–0.1	0.1	19.2	0.3	95	6
3657MH0008000031302061C00	2061	14857	3.37	–0.1	0.1	18.8	0.2	63	7
3657MH0008000031302062C00	2062	14911	3.24	–0.1	0.1	18.3	0.2	31	8

UPDATED: 12_September_2023

SOL 3657 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Lua – after DRT – stereo–1 – ~5 cm standoff

			CDPID	CORRESPONDING FRAME:	3657MH0008340011302067C00			
BEST FOCUS IMAGE:	3657MH0001630001302103R00		2103	MOTOR COUNT:	14015	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3657MH0001630001302104S00		2104	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19–Nov–22			MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3657	FOCUS MERGED ON SOL:	3657			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3657MH0008340031302069C00	2069	13943	7.23	–0.2	0.2	32.4	0.6	255	1
3657MH0008340031302070C00	2070	13961	7.11	–0.2	0.2	31.9	0.6	223	2
3657MH0008340031302071C00	2071	13979	6.98	–0.2	0.2	31.5	0.6	191	3
3657MH0008340031302072C00	2072	13997	6.86	–0.2	0.2	31.1	0.6	159	4
3657MH0008340031302073C00	2073	14015	6.75	–0.2	0.2	30.6	0.6	127	5
3657MH0008340031302074C00	2074	14033	6.63	–0.2	0.2	30.2	0.6	95	6
3657MH0008340031302075C00	2075	14051	6.52	–0.2	0.1	29.9	0.5	63	7
3657MH0008340031302076C00	2076	14069	6.41	–0.2	0.1	29.5	0.5	31	8

UPDATED: 12_September_2023

SOL 3657 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



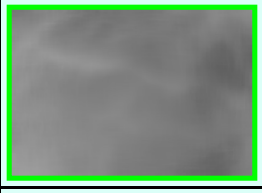

target Lua – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3657MH0008340011302078C00			
BEST FOCUS IMAGE:	3657MH0001630001302101R00	2101	MOTOR COUNT:	14018	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3657MH0001630001302102S00	2102	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Nov-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3657	FOCUS MERGED ON SOL:	3657		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3657MH0008340031302080C00	2080	13946	7.21	-0.2	0.2	32.3	0.6	255	1
3657MH0008340031302081C00	2081	13964	7.09	-0.2	0.2	31.8	0.6	223	2
3657MH0008340031302082C00	2082	13982	6.96	-0.2	0.2	31.4	0.6	191	3
3657MH0008340031302083C00	2083	14000	6.84	-0.2	0.2	31.0	0.6	159	4
3657MH0008340031302084C00	2084	14018	6.73	-0.2	0.2	30.6	0.6	127	5
3657MH0008340031302085C00	2085	14036	6.61	-0.2	0.2	30.2	0.5	95	6
3657MH0008340031302086C00	2086	14054	6.50	-0.2	0.1	29.8	0.5	63	7
3657MH0008340031302087C00	2087	14072	6.39	-0.2	0.1	29.4	0.5	31	8

UPDATED: 12_September_2023

SOL 3657 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Lua – after DRT – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3657MH0007320011302089C00			
BEST FOCUS IMAGE:	3657MH0001630001302099R00	2099	MOTOR COUNT:	14722	RANGE (cm):	3.7	
RANGE MAP PRODUCT:	3657MH0001630001302100S00	2100	ACQUIRED SEQUENCE:	mhli00732	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Nov-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3657	FOCUS MERGED ON SOL:	3657		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3657MH0007320031302091C00	2091	14578	4.16	-0.1	0.1	21.5	0.3	255	1
3657MH0007320031302092C00	2092	14614	4.04	-0.1	0.1	21.1	0.3	223	2
3657MH0007320031302093C00	2093	14650	3.93	-0.1	0.1	20.7	0.3	191	3
3657MH0007320031302094C00	2094	14686	3.82	-0.1	0.1	20.4	0.3	159	4
3657MH0007320031302095C00	2095	14722	3.72	-0.1	0.1	20.0	0.3	127	5
3657MH0007320031302096C00	2096	14758	3.62	-0.1	0.1	19.7	0.3	95	6
3657MH0007320031302097C00	2097	14794	3.53	-0.1	0.1	19.3	0.3	63	7
3657MH0007320031302098C00	2098	14830	3.43	-0.1	0.1	19.0	0.2	31	8

UPDATED: 12_September_2023

SOL 3664 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



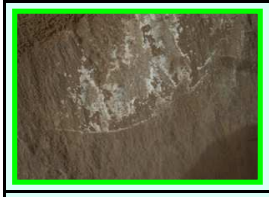

target Los_Tranques – before DRT – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3664MH0001820011302134C00			
BEST FOCUS IMAGE:	3665MH0002270001302198R00	2198	MOTOR COUNT:	14018	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3665MH0002270001302199S00	2199	ACQUIRED SEQUENCE:	mhli00182	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	27–Nov–22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3664	FOCUS MERGED ON SOL:	3665		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3664MH0001820021302135C00	2135	13922	7.39	–0.2	0.2	32.9	0.6	255	1
3664MH0001820021302136C00	2136	13946	7.21	–0.2	0.2	32.3	0.6	223	2
3664MH0001820021302137C00	2137	13970	7.05	–0.2	0.2	31.7	0.6	191	3
3664MH0001820021302138C00	2138	13994	6.88	–0.2	0.2	31.1	0.6	159	4
3664MH0001820021302139C00	2139	14018	6.73	–0.2	0.2	30.6	0.6	127	5
3664MH0001820021302140C00	2140	14042	6.58	–0.2	0.2	30.0	0.5	95	6
3664MH0001820021302141C00	2141	14066	6.43	–0.2	0.1	29.5	0.5	63	7
3664MH0001820021302142C00	2142	14090	6.29	–0.1	0.1	29.0	0.5	31	8

UPDATED: 12_September_2023

SOL 3664 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Poraque – after DRT – APXS spot 1 – stereo–1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3664MH0007230011302147C00			
BEST FOCUS IMAGE:	3665MH0002270001302196R00	2196	MOTOR COUNT:	13989	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3665MH0002270001302197S00	2197	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	27–Nov–22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3664	FOCUS MERGED ON SOL:	3665		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3664MH0007230031302149C00	2149	13845	7.98	–0.2	0.2	35.0	0.7	255	1
3664MH0007230031302150C00	2150	13881	7.70	–0.2	0.2	34.0	0.7	223	2
3664MH0007230031302151C00	2151	13917	7.42	–0.2	0.2	33.0	0.6	191	3
3664MH0007230031302152C00	2152	13953	7.16	–0.2	0.2	32.1	0.6	159	4
3664MH0007230031302153C00	2153	13989	6.92	–0.2	0.2	31.2	0.6	127	5
3664MH0007230031302154C00	2154	14025	6.68	–0.2	0.2	30.4	0.6	95	6
3664MH0007230031302155C00	2155	14061	6.46	–0.2	0.1	29.6	0.5	63	7
3664MH0007230031302156C00	2156	14097	6.25	–0.1	0.1	28.9	0.5	31	8

UPDATED: 12_September_2023

SOL 3664 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



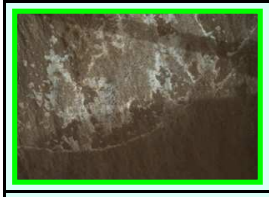

target Poraque – after DRT – APXS spot 1 – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3664MH0007230011302158C00			
BEST FOCUS IMAGE:	3665MH0002270001302194R00	2194	MOTOR COUNT:	13990	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3665MH0002270001302195S00	2195	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	27-Nov-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3664	FOCUS MERGED ON SOL:	3665		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3664MH0007230031302160C00	2160	13846	7.98	-0.2	0.2	35.0	0.7	255	1
3664MH0007230031302161C00	2161	13882	7.69	-0.2	0.2	34.0	0.7	223	2
3664MH0007230031302162C00	2162	13918	7.42	-0.2	0.2	33.0	0.6	191	3
3664MH0007230031302162C00	2163	13954	7.16	-0.2	0.2	32.1	0.6	159	4
3664MH0007230031302164C00	2164	13990	6.91	-0.2	0.2	31.2	0.6	127	5
3664MH0007230031302165C00	2165	14026	6.68	-0.2	0.2	30.4	0.6	95	6
3664MH0007230031302166C00	2166	14062	6.45	-0.2	0.1	29.6	0.5	63	7
3664MH0007230031302167C00	2167	14098	6.24	-0.1	0.1	28.9	0.5	31	8

UPDATED: 12_September_2023

SOL 3664 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Poraque – after DRT – APXS spot 1 – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3664MH0007110011302169C00			
BEST FOCUS IMAGE:	3665MH0002270001302192R00	2192	MOTOR COUNT:	14652	RANGE (cm):	3.9	
RANGE MAP PRODUCT:	3665MH0002270001302193S00	2193	ACQUIRED SEQUENCE:	mhli00711	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	27-Nov-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	72	ACQUIRED ON SOL:	3664	FOCUS MERGED ON SOL:	3665		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3664MH0007110031302171C00	2171	14364	4.94	-0.1	0.1	24.3	0.4	255	1
3664MH0007110031302172C00	2172	14436	4.66	-0.1	0.1	23.3	0.3	223	2
3664MH0007110031302173C00	2173	14508	4.39	-0.1	0.1	22.4	0.3	191	3
3664MH0007110031302174C00	2174	14580	4.15	-0.1	0.1	21.5	0.3	159	4
3664MH0007110031302175C00	2175	14652	3.93	-0.1	0.1	20.7	0.3	127	5
3664MH0007110031302176C00	2176	14724	3.72	-0.1	0.1	20.0	0.3	95	6
3664MH0007110031302177C00	2177	14796	3.52	-0.1	0.1	19.3	0.3	63	7
3664MH0007110031302178C00	2178	14868	3.34	-0.1	0.1	18.7	0.2	31	8

UPDATED: 12_September_2023

SOL 3664 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





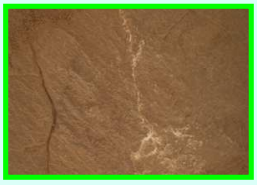
target Poraque – after DRT – APXS spot 2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3664MH0007230011302180C00			
BEST FOCUS IMAGE:	3665MH0002270001302190R00	2190	MOTOR COUNT:	13992	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3665MH0002270001302191S00	2191	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	27-Nov-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3664	FOCUS MERGED ON SOL:	3665		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3664MH0007230031302182C00	2182	13848	7.96	-0.2	0.2	34.9	0.7	255	1
3664MH0007230031302183C00	2183	13884	7.67	-0.2	0.2	33.9	0.7	223	2
3664MH0007230031302184C00	2184	13920	7.40	-0.2	0.2	32.9	0.6	191	3
3664MH0007230031302185C00	2185	13956	7.14	-0.2	0.2	32.0	0.6	159	4
3664MH0007230031302186C00	2186	13992	6.90	-0.2	0.2	31.2	0.6	127	5
3664MH0007230031302187C00	2187	14028	6.66	-0.2	0.2	30.4	0.6	95	6
3664MH0007230031302188C00	2188	14064	6.44	-0.2	0.1	29.6	0.5	63	7
3664MH0007230031302189C00	2189	14100	6.23	-0.1	0.1	28.8	0.5	31	8

UPDATED: 12_September_2023

SOL 3665 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Los_Tranques – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3665MH0007630011302204C00			
BEST FOCUS IMAGE:	3665MH0001930001302240R00	2240	MOTOR COUNT:	14012	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3665MH0001930001302241S00	2241	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	27-Nov-22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3665	FOCUS MERGED ON SOL:	3665		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3665MH0007630031302206C00	2206	13916	7.43	-0.2	0.2	33.1	0.6	255	1
3665MH0007630031302207C00	2207	13940	7.26	-0.2	0.2	32.4	0.6	223	2
3665MH0007630031302208C00	2208	13964	7.09	-0.2	0.2	31.8	0.6	191	3
3665MH0007630031302209C00	2209	13988	6.92	-0.2	0.2	31.3	0.6	159	4
3665MH0007630031302210C00	2210	14012	6.77	-0.2	0.2	30.7	0.6	127	5
3665MH0007630031302211C00	2211	14036	6.61	-0.2	0.2	30.2	0.5	95	6
3665MH0007630031302212C00	2212	14060	6.47	-0.2	0.1	29.7	0.5	63	7
3665MH0007630031302213C00	2213	14084	6.32	-0.1	0.1	29.2	0.5	31	8

UPDATED: 12_September_2023

SOL 3665 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Los_Tranques – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3665MH0007630011302215C00			
BEST FOCUS IMAGE:	3665MH0001930001302238R00	2238	MOTOR COUNT:	14014	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3665MH0001930001302239S00	2239	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	27-Nov-22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3665	FOCUS MERGED ON SOL:	3665		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3665MH0007630031302217C00	2217	13918	7.42	-0.2	0.2	33.0	0.6	255	1
3665MH0007630031302218C00	2218	13942	7.24	-0.2	0.2	32.4	0.6	223	2
3665MH0007630031302219C00	2219	13966	7.07	-0.2	0.2	31.8	0.6	191	3
3665MH0007630031302220C00	2220	13990	6.91	-0.2	0.2	31.2	0.6	159	4
3665MH0007630031302221C00	2221	14014	6.75	-0.2	0.2	30.7	0.6	127	5
3665MH0007630031302222C00	2222	14038	6.60	-0.2	0.2	30.1	0.5	95	6
3665MH0007630031302223C00	2223	14062	6.45	-0.2	0.1	29.6	0.5	63	7
3665MH0007630031302224C00	2224	14086	6.31	-0.1	0.1	29.1	0.5	31	8

UPDATED: 12_September_2023

SOL 3665 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





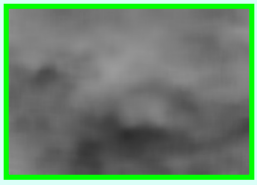
target Los_Tranques – after DRT – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3665MH0006030011302226C00			
BEST FOCUS IMAGE:	3665MH0001930001302236R00	2236	MOTOR COUNT:	15149	RANGE (cm):	2.7	
RANGE MAP PRODUCT:	3665MH0001930001302237S00	2237	ACQUIRED SEQUENCE:	mhli00603	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	27-Nov-22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3665	FOCUS MERGED ON SOL:	3665		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3665MH0006030031302228C00	2228	14933	3.19	-0.1	0.1	18.1	0.2	255	1
3665MH0006030031302229C00	2229	14987	3.07	-0.1	0.1	17.7	0.2	223	2
3665MH0006030031302230C00	2230	15041	2.95	-0.1	0.1	17.3	0.2	191	3
3665MH0006030031302231C00	2231	15095	2.84	-0.1	0.1	16.9	0.2	159	4
3665MH0006030031302232C00	2232	15149	2.74	-0.1	0.1	16.5	0.2	127	5
3665MH0006030031302233C00	2233	15203	2.64	-0.1	0.1	16.2	0.2	95	6
3665MH0006030031302234C00	2234	15257	2.55	-0.1	0.1	15.9	0.2	63	7
3665MH0006030031302235C00	2235	15311	2.46	0.0	0.1	15.6	0.2	31	8

UPDATED: 14_September_2023

SOL 3667 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

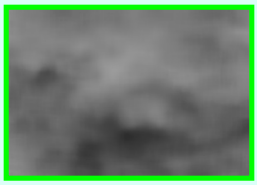
first merge of: target Flecha – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3667MH0008340011302246C00			
BEST FOCUS IMAGE:	3667MH0001930001302282R00	2282	MOTOR COUNT:	14009	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3667MH0001930001302283S00	2283	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	29-Nov-22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3667	FOCUS MERGED ON SOL:	3667		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3667MH0008340031302248C00	2248	13937	7.28	-0.2	0.2	32.5	0.6	255	1
3667MH0008340031302249C00	2249	13955	7.15	-0.2	0.2	32.1	0.6	223	2
3667MH0008340031302250C00	2250	13973	7.02	-0.2	0.2	31.6	0.6	191	3
3667MH0008340031302251C00	2251	13991	6.90	-0.2	0.2	31.2	0.6	159	4
3667MH0008340031302252C00	2252	14009	6.79	-0.2	0.2	30.8	0.6	127	5
3667MH0008340031302253C00	2253	14027	6.67	-0.2	0.2	30.4	0.6	95	6
3667MH0008340031302254C00	2254	14045	6.56	-0.2	0.1	30.0	0.5	63	7
3667MH0008340031302255C00	2255	14063	6.45	-0.2	0.1	29.6	0.5	31	8

UPDATED: 14_September_2023

SOL 3667 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

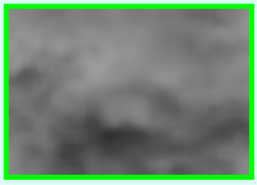
second merge of: target Flecha – after DRT – stereo-1 – ~5 cm standoff – merge was performed after a fault occurred onboard the rover that prevented a new focus stack acquisition on Sol 3669

		CDPID	CORRESPONDING FRAME:	3667MH0008340011302246C00			
BEST FOCUS IMAGE:	3669MH0001930001302288R00	2288	MOTOR COUNT:	14009	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3669MH0001930001302289S00	2289	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	29-Nov-22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3667	FOCUS MERGED ON SOL:	3669		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3667MH0008340031302248C00	2248	13937	7.28	-0.2	0.2	32.5	0.6	255	1
3667MH0008340031302249C00	2249	13955	7.15	-0.2	0.2	32.1	0.6	223	2
3667MH0008340031302250C00	2250	13973	7.02	-0.2	0.2	31.6	0.6	191	3
3667MH0008340031302251C00	2251	13991	6.90	-0.2	0.2	31.2	0.6	159	4
3667MH0008340031302252C00	2252	14009	6.79	-0.2	0.2	30.8	0.6	127	5
3667MH0008340031302253C00	2253	14027	6.67	-0.2	0.2	30.4	0.6	95	6
3667MH0008340031302254C00	2254	14045	6.56	-0.2	0.1	30.0	0.5	63	7
3667MH0008340031302255C00	2255	14063	6.45	-0.2	0.1	29.6	0.5	31	8

UPDATED: 14_September_2023

SOL 3667 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

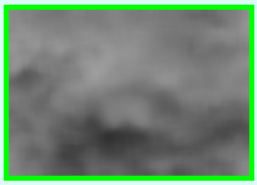
first merge of: target Flecha – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3667MH0008340011302257C00			
BEST FOCUS IMAGE:	3667MH0001930001302280R00	2280	MOTOR COUNT:	14014	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3667MH0001930001302281S00	2281	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	29-Nov-22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3667	FOCUS MERGED ON SOL:	3667		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3667MH0008340031302259C00	2259	13942	7.24	-0.2	0.2	32.4	0.6	255	1
3667MH0008340031302260C00	2260	13960	7.11	-0.2	0.2	31.9	0.6	223	2
3667MH0008340031302261C00	2261	13978	6.99	-0.2	0.2	31.5	0.6	191	3
3667MH0008340031302262C00	2262	13996	6.87	-0.2	0.2	31.1	0.6	159	4
3667MH0008340031302263C00	2263	14014	6.75	-0.2	0.2	30.7	0.6	127	5
3667MH0008340031302264C00	2264	14032	6.64	-0.2	0.2	30.3	0.6	95	6
3667MH0008340031302265C00	2265	14050	6.53	-0.2	0.1	29.9	0.5	63	7
3667MH0008340031302266C00	2266	14068	6.42	-0.2	0.1	29.5	0.5	31	8

UPDATED: 14_September_2023

SOL 3667 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

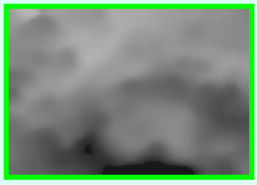
second merge of: target Flecha – after DRT – stereo-2 – ~5 cm standoff – merge was performed after a fault occurred onboard the rover that prevented a new focus stack acquisition on Sol 3669

		CDPID	CORRESPONDING FRAME:	3667MH0008340011302257C00			
BEST FOCUS IMAGE:	3669MH0001930001302286R00	2286	MOTOR COUNT:	14014	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3669MH0001930001302287S00	2287	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	29-Nov-22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3667	FOCUS MERGED ON SOL:	3669		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3667MH0008340031302259C00	2259	13942	7.24	-0.2	0.2	32.4	0.6	255	1
3667MH0008340031302260C00	2260	13960	7.11	-0.2	0.2	31.9	0.6	223	2
3667MH0008340031302261C00	2261	13978	6.99	-0.2	0.2	31.5	0.6	191	3
3667MH0008340031302262C00	2262	13996	6.87	-0.2	0.2	31.1	0.6	159	4
3667MH0008340031302263C00	2263	14014	6.75	-0.2	0.2	30.7	0.6	127	5
3667MH0008340031302264C00	2264	14032	6.64	-0.2	0.2	30.3	0.6	95	6
3667MH0008340031302265C00	2265	14050	6.53	-0.2	0.1	29.9	0.5	63	7
3667MH0008340031302266C00	2266	14068	6.42	-0.2	0.1	29.5	0.5	31	8

UPDATED: 14_September_2023

SOL 3667 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

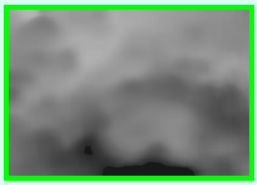
first merge of: target Flecha – after DRT – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3667MH0007850011302268C00			
BEST FOCUS IMAGE:	3667MH0001930001302278R00	2278	MOTOR COUNT:	15140	RANGE (cm):	2.8	
RANGE MAP PRODUCT:	3667MH0001930001302279S00	2279	ACQUIRED SEQUENCE:	mhli00785	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	29–Nov–22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3667	FOCUS MERGED ON SOL:	3667		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3667MH0007850031302270C00	2270	14972	3.10	-0.1	0.1	17.8	0.2	255	1
3667MH0007850031302271C00	2271	15014	3.01	-0.1	0.1	17.5	0.2	223	2
3667MH0007850031302272C00	2272	15056	2.92	-0.1	0.1	17.2	0.2	191	3
3667MH0007850031302273C00	2273	15098	2.84	-0.1	0.1	16.9	0.2	159	4
3667MH0007850031302274C00	2274	15140	2.76	-0.1	0.1	16.6	0.2	127	5
3667MH0007850031302275C00	2275	15182	2.68	-0.1	0.1	16.3	0.2	95	6
3667MH0007850031302276C00	2276	15224	2.60	-0.1	0.1	16.1	0.2	63	7
3667MH0007850031302277C00	2277	15266	2.53	-0.1	0.1	15.8	0.2	31	8

UPDATED: 14_September_2023

SOL 3667 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

second merge of: target Flecha – after DRT – ~1 cm standoff – merge was performed after a fault occurred onboard the rover that prevented a new focus stack acquisition on Sol 3669

		CDPID	CORRESPONDING FRAME:	3667MH0007850011302268C00			
BEST FOCUS IMAGE:	3669MH0001930001302284R00	2284	MOTOR COUNT:	15140	RANGE (cm):	2.8	
RANGE MAP PRODUCT:	3669MH0001930001302285S00	2285	ACQUIRED SEQUENCE:	mhli00785	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	29–Nov–22		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3667	FOCUS MERGED ON SOL:	3669		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3667MH0007850031302270C00	2270	14972	3.10	-0.1	0.1	17.8	0.2	255	1
3667MH0007850031302271C00	2271	15014	3.01	-0.1	0.1	17.5	0.2	223	2
3667MH0007850031302272C00	2272	15056	2.92	-0.1	0.1	17.2	0.2	191	3
3667MH0007850031302273C00	2273	15098	2.84	-0.1	0.1	16.9	0.2	159	4
3667MH0007850031302274C00	2274	15140	2.76	-0.1	0.1	16.6	0.2	127	5
3667MH0007850031302275C00	2275	15182	2.68	-0.1	0.1	16.3	0.2	95	6
3667MH0007850031302276C00	2276	15224	2.60	-0.1	0.1	16.1	0.2	63	7
3667MH0007850031302277C00	2277	15266	2.53	-0.1	0.1	15.8	0.2	31	8

UPDATED: 14_September_2023

SOL 3671 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Roxinho – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3671MH0007210011302294C00			
BEST FOCUS IMAGE:	3672MH0001710001302390R00	2390	MOTOR COUNT:	14000	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3672MH0001710001302391S00	2391	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Dec-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3671	FOCUS MERGED ON SOL:	3672		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3671MH0007210031302296C00	2296	13832	8.09	-0.2	0.2	35.4	0.7	255	1
3671MH0007210031302297C00	2297	13874	7.75	-0.2	0.2	34.2	0.7	223	2
3671MH0007210031302298C00	2298	13916	7.43	-0.2	0.2	33.1	0.6	191	3
3671MH0007210031302299C00	2299	13958	7.13	-0.2	0.2	32.0	0.6	159	4
3671MH0007210031302300C00	2300	14000	6.84	-0.2	0.2	31.0	0.6	127	5
3671MH0007210031302301C00	2301	14042	6.58	-0.2	0.2	30.0	0.5	95	6
3671MH0007210031302302C00	2302	14084	6.32	-0.1	0.1	29.2	0.5	63	7
3671MH0007210031302303C00	2303	14126	6.08	-0.1	0.1	28.3	0.5	31	8

UPDATED: 14_September_2023

SOL 3671 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Roxinho – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3671MH0007210011302305C00			
BEST FOCUS IMAGE:	3672MH0001710001302388R00	2388	MOTOR COUNT:	13999	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3672MH0001710001302389S00	2389	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Dec-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3671	FOCUS MERGED ON SOL:	3672		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3671MH0007210031302307C00	2307	13831	8.10	-0.2	0.2	35.4	0.7	255	1
3671MH0007210031302308C00	2308	13873	7.76	-0.2	0.2	34.2	0.7	223	2
3671MH0007210031302309C00	2309	13915	7.44	-0.2	0.2	33.1	0.6	191	3
3671MH0007210031302310C00	2310	13957	7.14	-0.2	0.2	32.0	0.6	159	4
3671MH0007210031302311C00	2311	13999	6.85	-0.2	0.2	31.0	0.6	127	5
3671MH0007210031302312C00	2312	14041	6.58	-0.2	0.2	30.1	0.5	95	6
3671MH0007210031302313C00	2313	14083	6.33	-0.2	0.1	29.2	0.5	63	7
3671MH0007210031302314C00	2314	14125	6.09	-0.1	0.1	28.3	0.5	31	8

UPDATED: 14_September_2023

SOL 3671 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Roxinho – after DRT – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3671MH0008020011302316C00			
BEST FOCUS IMAGE:	3672MH0001710001302386R00	2386	MOTOR COUNT:	14692	RANGE (cm):	3.8	
RANGE MAP PRODUCT:	3672MH0001710001302387S00	2387	ACQUIRED SEQUENCE:	mhli00802	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Dec-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	66	ACQUIRED ON SOL:	3671	FOCUS MERGED ON SOL:	3672		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3671MH0008020031302318C00	2318	14428	4.69	-0.1	0.1	23.4	0.3	255	1
3671MH0008020031302319C00	2319	14494	4.44	-0.1	0.1	22.5	0.3	223	2
3671MH0008020031302320C00	2320	14560	4.22	-0.1	0.1	21.7	0.3	191	3
3671MH0008020031302321C00	2321	14626	4.00	-0.1	0.1	21.0	0.3	159	4
3671MH0008020031302322C00	2322	14692	3.81	-0.1	0.1	20.3	0.3	127	5
3671MH0008020031302323C00	2323	14758	3.62	-0.1	0.1	19.7	0.3	95	6
3671MH0008020031302324C00	2324	14824	3.45	-0.1	0.1	19.0	0.2	63	7
3671MH0008020031302325C00	2325	14890	3.29	-0.1	0.1	18.5	0.2	31	8

UPDATED: 14_September_2023

SOL 3671 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



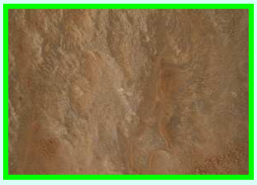

target Shabono – after DRT – APXS spot 2 – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3671MH0007230011302330C00			
BEST FOCUS IMAGE:	3672MH0001710001302384R00	2384	MOTOR COUNT:	13996	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3672MH0001710001302385S00	2385	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Dec-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3671	FOCUS MERGED ON SOL:	3672		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3671MH0007230031302332C00	2332	13852	7.93	-0.2	0.2	34.8	0.7	255	1
3671MH0007230031302333C00	2333	13888	7.64	-0.2	0.2	33.8	0.7	223	2
3671MH0007230031302334C00	2334	13924	7.37	-0.2	0.2	32.8	0.6	191	3
3671MH0007230031302335C00	2335	13960	7.11	-0.2	0.2	31.9	0.6	159	4
3671MH0007230031302336C00	2336	13996	6.87	-0.2	0.2	31.1	0.6	127	5
3671MH0007230031302337C00	2337	14032	6.64	-0.2	0.2	30.3	0.6	95	6
3671MH0007230031302338C00	2338	14068	6.42	-0.2	0.1	29.5	0.5	63	7
3671MH0007230031302339C00	2339	14104	6.21	-0.1	0.1	28.8	0.5	31	8

UPDATED: 14_September_2023

SOL 3671 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Shabono – after DRT – APXS spot 2 – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3671MH0007230011302341C00			
BEST FOCUS IMAGE:	3672MH0001710001302382R00	2382	MOTOR COUNT:	14009	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3672MH0001710001302383S00	2383	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Dec-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3671	FOCUS MERGED ON SOL:	3672		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3671MH0007230031302343C00	2343	13865	7.82	-0.2	0.2	34.4	0.7	255	1
3671MH0007230031302344C00	2344	13901	7.54	-0.2	0.2	33.4	0.7	223	2
3671MH0007230031302345C00	2345	13937	7.28	-0.2	0.2	32.5	0.6	191	3
3671MH0007230031302346C00	2346	13973	7.02	-0.2	0.2	31.6	0.6	159	4
3671MH0007230031302347C00	2347	14009	6.79	-0.2	0.2	30.8	0.6	127	5
3671MH0007230031302348C00	2348	14045	6.56	-0.2	0.1	30.0	0.5	95	6
3671MH0007230031302349C00	2349	14081	6.34	-0.2	0.1	29.2	0.5	63	7
3671MH0007230031302350C00	2350	14117	6.13	-0.1	0.1	28.5	0.5	31	8

UPDATED: 14_September_2023

SOL 3671 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Shabono – after DRT – APXS spot 2 – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3671MH0007460011302352C00			
BEST FOCUS IMAGE:	3672MH0001710001302380R00	2380	MOTOR COUNT:	14697	RANGE (cm):	3.8	
RANGE MAP PRODUCT:	3672MH0001710001302381S00	2381	ACQUIRED SEQUENCE:	mhli00746	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Dec-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3671	FOCUS MERGED ON SOL:	3672		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3671MH0007460031302354C00	2354	14505	4.40	-0.1	0.1	22.4	0.3	255	1
3671MH0007460031302355C00	2355	14553	4.24	-0.1	0.1	21.8	0.3	223	2
3671MH0007460031302356C00	2356	14601	4.08	-0.1	0.1	21.3	0.3	191	3
3671MH0007460031302357C00	2357	14649	3.93	-0.1	0.1	20.7	0.3	159	4
3671MH0007460031302358C00	2358	14697	3.79	-0.1	0.1	20.3	0.3	127	5
3671MH0007460031302359C00	2359	14745	3.66	-0.1	0.1	19.8	0.3	95	6
3671MH0007460031302360C00	2360	14793	3.53	-0.1	0.1	19.3	0.3	63	7
3671MH0007460031302361C00	2361	14841	3.41	-0.1	0.1	18.9	0.2	31	8

UPDATED: 14_September_2023

SOL 3671 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





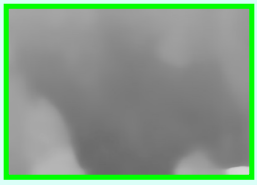
target Shabono – after DRT – APXS spot 1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3671MH0007230011302363C00			
BEST FOCUS IMAGE:	3672MH0001710001302378R00	2378	MOTOR COUNT:	13992	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3672MH0001710001302379S00	2379	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Dec-22		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3671	FOCUS MERGED ON SOL:	3672		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3671MH0007230031302365C00	2365	13848	7.96	-0.2	0.2	34.9	0.7	255	1
3671MH0007230031302366C00	2366	13884	7.67	-0.2	0.2	33.9	0.7	223	2
3671MH0007230031302367C00	2367	13920	7.40	-0.2	0.2	32.9	0.6	191	3
3671MH0007230031302368C00	2368	13956	7.14	-0.2	0.2	32.0	0.6	159	4
3671MH0007230031302369C00	2369	13992	6.90	-0.2	0.2	31.2	0.6	127	5
3671MH0007230031302370C00	2370	14028	6.66	-0.2	0.2	30.4	0.6	95	6
3671MH0007230031302371C00	2371	14064	6.44	-0.2	0.1	29.6	0.5	63	7
3671MH0007230031302372C00	2372	14100	6.23	-0.1	0.1	28.8	0.5	31	8

UPDATED: 14_September_2023

SOL 3674 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Orocaima – stereo-1 – ~5 cm standoff

			CDPID	CORRESPONDING FRAME:	3674MH0007210011302400C00			
BEST FOCUS IMAGE:	3674MH0002270001302467R00		2467	MOTOR COUNT:	14008	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3674MH0002270001302468S00		2468	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	7-Dec-22			MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3674	FOCUS MERGED ON SOL:	3674			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3674MH0007210031302402C00	2402	13840	8.03	-0.2	0.2	35.2	0.7	255	1
3674MH0007210031302403C00	2403	13882	7.69	-0.2	0.2	34.0	0.7	223	2
3674MH0007210031302404C00	2404	13924	7.37	-0.2	0.2	32.8	0.6	191	3
3674MH0007210031302405C00	2405	13966	7.07	-0.2	0.2	31.8	0.6	159	4
3674MH0007210031302406C00	2406	14008	6.79	-0.2	0.2	30.8	0.6	127	5
3674MH0007210031302407C00	2407	14050	6.53	-0.2	0.1	29.9	0.5	95	6
3674MH0007210031302408C00	2408	14092	6.28	-0.1	0.1	29.0	0.5	63	7
3674MH0007210031302409C00	2409	14134	6.04	-0.1	0.1	28.2	0.5	31	8

UPDATED: 14_September_2023

SOL 3674 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



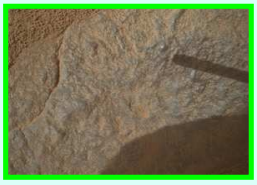
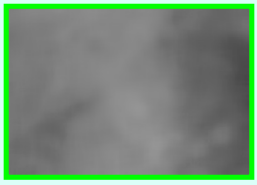

target Orocaima – stereo-2 – ~5 cm standoff

			CDPID	CORRESPONDING FRAME:	3674MH0007210011302411C00			
BEST FOCUS IMAGE:	3674MH0002270001302465R00		2465	MOTOR COUNT:	14013	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3674MH0002270001302466S00		2466	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	7-Dec-22			MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3674	FOCUS MERGED ON SOL:	3674			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3674MH0007210031302413C00	2413	13845	7.98	-0.2	0.2	35.0	0.7	255	1
3674MH0007210031302414C00	2414	13887	7.65	-0.2	0.2	33.8	0.7	223	2
3674MH0007210031302415C00	2415	13929	7.33	-0.2	0.2	32.7	0.6	191	3
3674MH0007210031302416C00	2416	13971	7.04	-0.2	0.2	31.7	0.6	159	4
3674MH0007210031302417C00	2417	14013	6.76	-0.2	0.2	30.7	0.6	127	5
3674MH0007210031302418C00	2418	14055	6.50	-0.2	0.1	29.8	0.5	95	6
3674MH0007210031302419C00	2419	14097	6.25	-0.1	0.1	28.9	0.5	63	7
3674MH0007210031302420C00	2420	14139	6.01	-0.1	0.1	28.1	0.5	31	8

UPDATED: 14_September_2023

SOL 3674 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Amapari – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3674MH0007630011302425C00			
BEST FOCUS IMAGE:	3674MH0002270001302463R00	2463	MOTOR COUNT:	13979	RANGE (cm):	7.0	
RANGE MAP PRODUCT:	3674MH0002270001302464S00	2464	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	7-Dec-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3674	FOCUS MERGED ON SOL:	3674		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3674MH0007630031302427C00	2427	13883	7.68	-0.2	0.2	33.9	0.7	255	1
3674MH0007630031302428C00	2428	13907	7.50	-0.2	0.2	33.3	0.7	223	2
3674MH0007630031302429C00	2429	13931	7.32	-0.2	0.2	32.7	0.6	191	3
3674MH0007630031302430C00	2430	13955	7.15	-0.2	0.2	32.1	0.6	159	4
3674MH0007630031302431C00	2431	13979	6.98	-0.2	0.2	31.5	0.6	127	5
3674MH0007630031302432C00	2432	14003	6.82	-0.2	0.2	30.9	0.6	95	6
3674MH0007630031302433C00	2433	14027	6.67	-0.2	0.2	30.4	0.6	63	7
3674MH0007630031302434C00	2434	14051	6.52	-0.2	0.1	29.9	0.5	31	8

UPDATED: 14_September_2023

SOL 3674 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Amapari – after DRT – stereo-2 – ~5 cm standoff

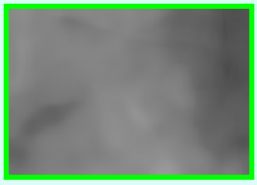
		CDPID	CORRESPONDING FRAME:	3674MH0007630011302436C00			
BEST FOCUS IMAGE:	3674MH0002270001302461R00	2461	MOTOR COUNT:	13983	RANGE (cm):	7.0	
RANGE MAP PRODUCT:	3674MH0002270001302462S00	2462	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	7-Dec-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3674	FOCUS MERGED ON SOL:	3674		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3674MH0007630031302438C00	2438	13887	7.65	-0.2	0.2	33.8	0.7	255	1
3674MH0007630031302438C00	2439	13911	7.47	-0.2	0.2	33.2	0.7	223	2
3674MH0007630031302440C00	2440	13935	7.29	-0.2	0.2	32.6	0.6	191	3
3674MH0007630031302441C00	2441	13959	7.12	-0.2	0.2	32.0	0.6	159	4
3674MH0007630031302442C00	2442	13983	6.96	-0.2	0.2	31.4	0.6	127	5
3674MH0007630031302443C00	2443	14007	6.80	-0.2	0.2	30.8	0.6	95	6
3674MH0007630031302444C00	2444	14031	6.64	-0.2	0.2	30.3	0.6	63	7
3674MH0007630031302445C00	2445	14055	6.50	-0.2	0.1	29.8	0.5	31	8

UPDATED: 14_September_2023

SOL 3674 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





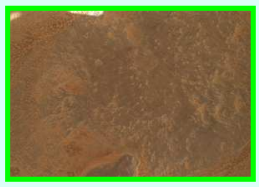
target Amapari – after DRT – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3674MH0008240011302447C00			
BEST FOCUS IMAGE:	3674MH0002270001302459R00	2459	MOTOR COUNT:	14626	RANGE (cm):	4.0	
RANGE MAP PRODUCT:	3674MH0002270001302460S00	2460	ACQUIRED SEQUENCE:	mhli00824	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	7-Dec-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3674	FOCUS MERGED ON SOL:	3674		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3674MH0008240031302449C00	2449	14458	4.58	-0.1	0.1	23.0	0.3	255	1
3674MH0008240031302450C00	2450	14500	4.42	-0.1	0.1	22.5	0.3	223	2
3674MH0008240031302451C00	2451	14542	4.28	-0.1	0.1	22.0	0.3	191	3
3674MH0008240031302452C00	2452	14584	4.14	-0.1	0.1	21.5	0.3	159	4
3674MH0008240031302453C00	2453	14626	4.00	-0.1	0.1	21.0	0.3	127	5
3674MH0008240031302454C00	2454	14668	3.88	-0.1	0.1	20.5	0.3	95	6
3674MH0008240031302455C00	2455	14710	3.76	-0.1	0.1	20.1	0.3	63	7
3674MH0008240031302456C00	2456	14752	3.64	-0.1	0.1	19.7	0.3	31	8

UPDATED: 14_September_2023

SOL 3677 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



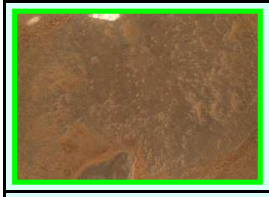
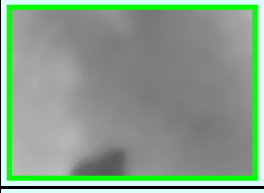

target Amapari2 – after DRT – APXS spot 2 – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3677MH0006990011302479C00			
BEST FOCUS IMAGE:	3677MH0001530001302530R00	2530	MOTOR COUNT:	13987	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3677MH0001530001302531S00	2531	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	10-Dec-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3677	FOCUS MERGED ON SOL:	3677		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3677MH0006990031302481C00	2481	13867	7.81	-0.2	0.2	34.4	0.7	255	1
3677MH0006990031302482C00	2482	13897	7.57	-0.2	0.2	33.6	0.7	223	2
3677MH0006990031302483C00	2483	13927	7.35	-0.2	0.2	32.8	0.6	191	3
3677MH0006990031302484C00	2484	13957	7.14	-0.2	0.2	32.0	0.6	159	4
3677MH0006990031302485C00	2485	13987	6.93	-0.2	0.2	31.3	0.6	127	5
3677MH0006990031302486C00	2486	14017	6.73	-0.2	0.2	30.6	0.6	95	6
3677MH0006990031302487C00	2487	14047	6.55	-0.2	0.1	29.9	0.5	63	7
3677MH0006990031302488C00	2488	14077	6.36	-0.2	0.1	29.3	0.5	31	8

UPDATED: 14_September_2023

SOL 3677 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

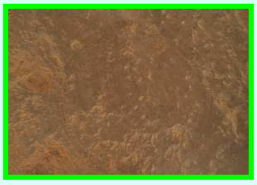
target Amapari2 – after DRT – APXS spot 2 – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3677MH0006990011302490C00			
BEST FOCUS IMAGE:	3677MH0001530001302528R00	2528	MOTOR COUNT:	13990	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3677MH0001530001302529S00	2529	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	10-Dec-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3677	FOCUS MERGED ON SOL:	3677		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3677MH0006990031302492C00	2492	13870	7.78	-0.2	0.2	34.3	0.7	255	1
3677MH0006990031302493C00	2493	13900	7.55	-0.2	0.2	33.5	0.7	223	2
3677MH0006990031302494C00	2494	13930	7.33	-0.2	0.2	32.7	0.6	191	3
3677MH0006990031302495C00	2495	13960	7.11	-0.2	0.2	31.9	0.6	159	4
3677MH0006990031302496C00	2496	13990	6.91	-0.2	0.2	31.2	0.6	127	5
3677MH0006990031302497C00	2497	14020	6.71	-0.2	0.2	30.5	0.6	95	6
3677MH0006990031302498C00	2498	14050	6.53	-0.2	0.1	29.9	0.5	63	7
3677MH0006990031302499C00	2499	14080	6.35	-0.2	0.1	29.2	0.5	31	8

UPDATED: 14_September_2023

SOL 3677 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



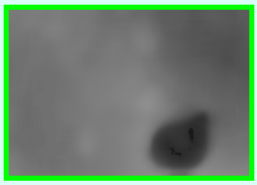

target Amapari2 – after DRT – APXS spot 2 – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3677MH0008240011302501C00			
BEST FOCUS IMAGE:	3677MH0001530001302526R00	2526	MOTOR COUNT:	14655	RANGE (cm):	3.9	
RANGE MAP PRODUCT:	3677MH0001530001302527S00	2527	ACQUIRED SEQUENCE:	mhli00824	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	10-Dec-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3677	FOCUS MERGED ON SOL:	3677		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3677MH0008240031302503C00	2503	14487	4.47	-0.1	0.1	22.6	0.3	255	1
3677MH0008240031302504C00	2504	14529	4.32	-0.1	0.1	22.1	0.3	223	2
3677MH0008240031302505C00	2505	14571	4.18	-0.1	0.1	21.6	0.3	191	3
3677MH0008240031302506C00	2506	14613	4.05	-0.1	0.1	21.1	0.3	159	4
3677MH0008240031302507C00	2507	14655	3.92	-0.1	0.1	20.7	0.3	127	5
3677MH0008240031302508C00	2508	14697	3.79	-0.1	0.1	20.3	0.3	95	6
3677MH0008240031302509C00	2509	14739	3.67	-0.1	0.1	19.8	0.3	63	7
3677MH0008240031302510C00	2510	14781	3.56	-0.1	0.1	19.4	0.3	31	8

UPDATED: 14_September_2023

SOL 3677 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Amapari2 – after DRT – APXS spot 1 – ~55 mm standoff

		CDPID	CORRESPONDING FRAME:	3677MH0006990011302512C00			
BEST FOCUS IMAGE:	3677MH0001530001302524R00	2524	MOTOR COUNT:	13948	RANGE (cm):	7.2	
RANGE MAP PRODUCT:	3677MH0001530001302525S00	2525	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	10-Dec-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3677	FOCUS MERGED ON SOL:	3677		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3677MH0006990031302514C00	2514	13828	8.13	-0.2	0.2	35.5	0.7	255	1
3677MH0006990031302515C00	2515	13858	7.88	-0.2	0.2	34.6	0.7	223	2
3677MH0006990031302516C00	2516	13888	7.64	-0.2	0.2	33.8	0.7	191	3
3677MH0006990031302517C00	2517	13918	7.42	-0.2	0.2	33.0	0.6	159	4
3677MH0006990031302518C00	2518	13948	7.20	-0.2	0.2	32.2	0.6	127	5
3677MH0006990031302519C00	2519	13978	6.99	-0.2	0.2	31.5	0.6	95	6
3677MH0006990031302520C00	2520	14008	6.79	-0.2	0.2	30.8	0.6	63	7
3677MH0006990031302521C00	2521	14038	6.60	-0.2	0.2	30.1	0.5	31	8

UPDATED: 15_September_2023

SOL 3682 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



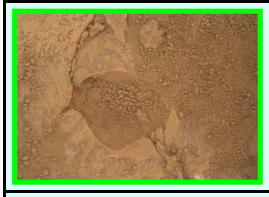
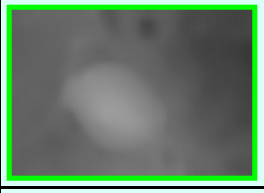

Amapari attempted (sol 3676) drill hole – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3682MH0002240011302537C00			
BEST FOCUS IMAGE:	3682MH0001530001302586R00	2586	MOTOR COUNT:	14002	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3682MH0001530001302587S00	2587	ACQUIRED SEQUENCE:	mhli00224	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	15-Dec-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3682	FOCUS MERGED ON SOL:	3682		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3682MH0002240021302538C00	2538	13834	8.08	-0.2	0.2	35.3	0.7	255	1
3682MH0002240021302539C00	2539	13876	7.74	-0.2	0.2	34.1	0.7	223	2
3682MH0002240021302540C00	2540	13918	7.42	-0.2	0.2	33.0	0.6	191	3
3682MH0002240021302541C00	2541	13960	7.11	-0.2	0.2	31.9	0.6	159	4
3682MH0002240021302542C00	2542	14002	6.83	-0.2	0.2	30.9	0.6	127	5
3682MH0002240021302543C00	2543	14044	6.56	-0.2	0.1	30.0	0.5	95	6
3682MH0002240021302544C00	2544	14086	6.31	-0.1	0.1	29.1	0.5	63	7
3682MH0002240021302545C00	2545	14128	6.07	-0.1	0.1	28.3	0.5	31	8

UPDATED: 15_September_2023

SOL 3682 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

Amapari attempted (sol 3676) drill hole – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3682MH0002240011302547C00			
BEST FOCUS IMAGE:	3682MH0001530001302584R00	2584	MOTOR COUNT:	14008	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3682MH0001530001302585S00	2585	ACQUIRED SEQUENCE:	mhli00224	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	15-Dec-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3682	FOCUS MERGED ON SOL:	3682		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3682MH0002240021302548C00	2548	13840	8.03	-0.2	0.2	35.2	0.7	255	1
3682MH0002240021302549C00	2549	13882	7.69	-0.2	0.2	34.0	0.7	223	2
3682MH0002240021302550C00	2550	13924	7.37	-0.2	0.2	32.8	0.6	191	3
3682MH0002240021302551C00	2551	13966	7.07	-0.2	0.2	31.8	0.6	159	4
3682MH0002240021302552C00	2552	14008	6.79	-0.2	0.2	30.8	0.6	127	5
3682MH0002240021302553C00	2553	14050	6.53	-0.2	0.1	29.9	0.5	95	6
3682MH0002240021302554C00	2554	14092	6.28	-0.1	0.1	29.0	0.5	63	7
3682MH0002240021302555C00	2555	14134	6.04	-0.1	0.1	28.2	0.5	31	8

UPDATED: 15_September_2023

SOL 3682 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



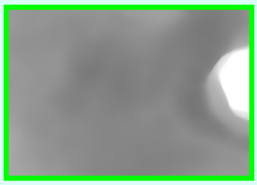

Amapari2 drill cuttings – after sol 3680 drill attempt – stereo-1 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3682MH0003080011302561C00			
BEST FOCUS IMAGE:	3682MH0001530001302582R00	2582	MOTOR COUNT:	14151	RANGE (cm):	5.9	
RANGE MAP PRODUCT:	3682MH0001530001302583S00	2583	ACQUIRED SEQUENCE:	mhli00308	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	15-Dec-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	66	ACQUIRED ON SOL:	3682	FOCUS MERGED ON SOL:	3682		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3682MH0003080021302562C00	2562	13887	7.65	-0.2	0.2	33.8	0.7	255	1
3682MH0003080021302563C00	2563	13953	7.16	-0.2	0.2	32.1	0.6	223	2
3682MH0003080021302564C00	2564	14019	6.72	-0.2	0.2	30.6	0.6	191	3
3682MH0003080021302565C00	2565	14085	6.32	-0.1	0.1	29.1	0.5	159	4
3682MH0003080021302566C00	2566	14151	5.95	-0.1	0.1	27.8	0.5	127	5
3682MH0003080021302567C00	2567	14217	5.61	-0.1	0.1	26.6	0.4	95	6
3682MH0003080021302568C00	2568	14283	5.30	-0.1	0.1	25.5	0.4	63	7
3682MH0003080021302569C00	2569	14349	5.01	-0.1	0.1	24.5	0.4	31	8

UPDATED: 15_September_2023

SOL 3682 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

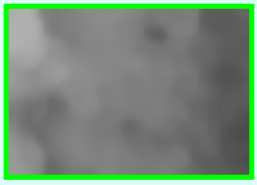
Amapari2 drill cuttings – after sol 3680 drill attempt – stereo-2 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3682MH0003080011302571C00			
BEST FOCUS IMAGE:	3682MH0001530001302580R00	2580	MOTOR COUNT:	14155	RANGE (cm):	5.9	
RANGE MAP PRODUCT:	3682MH0001530001302581S00	2581	ACQUIRED SEQUENCE:	mhli00308	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	15-Dec-22		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	66	ACQUIRED ON SOL:	3682	FOCUS MERGED ON SOL:	3682		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3682MH0003080021302572C00	2572	13891	7.62	-0.2	0.2	33.7	0.7	255	1
3682MH0003080021302573C00	2573	13957	7.14	-0.2	0.2	32.0	0.6	223	2
3682MH0003080021302574C00	2574	14023	6.70	-0.2	0.2	30.5	0.6	191	3
3682MH0003080021302575C00	2575	14089	6.29	-0.1	0.1	29.1	0.5	159	4
3682MH0003080021302576C00	2576	14155	5.93	-0.1	0.1	27.8	0.5	127	5
3682MH0003080021302577C00	2577	14221	5.59	-0.1	0.1	26.6	0.4	95	6
3682MH0003080021302578C00	2578	14287	5.28	-0.1	0.1	25.5	0.4	63	7
3682MH0003080021302579C00	2579	14353	4.99	-0.1	0.1	24.5	0.4	31	8

UPDATED: 15_September_2023

SOL 3684 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Urutanim – stereo-1 – ~55 mm standoff

		CDPID	CORRESPONDING FRAME:	3684MH0001520011302613C00			
BEST FOCUS IMAGE:	3687MH0001630001302686R00	2686	MOTOR COUNT:	13954	RANGE (cm):	7.2	
RANGE MAP PRODUCT:	3687MH0001630001302687S00	2687	ACQUIRED SEQUENCE:	mhli00152	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	17-Dec-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3684	FOCUS MERGED ON SOL:	3687		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3684MH0001520021302614C00	2614	13762	8.72	-0.2	0.2	37.6	0.8	255	1
3684MH0001520021302615C00	2615	13810	8.28	-0.2	0.2	36.1	0.8	223	2
3684MH0001520021302616C00	2616	13858	7.88	-0.2	0.2	34.6	0.7	191	3
3684MH0001520021302617C00	2617	13906	7.50	-0.2	0.2	33.3	0.7	159	4
3684MH0001520021302618C00	2618	13954	7.16	-0.2	0.2	32.1	0.6	127	5
3684MH0001520021302619C00	2619	14002	6.83	-0.2	0.2	30.9	0.6	95	6
3684MH0001520021302620C00	2620	14050	6.53	-0.2	0.1	29.9	0.5	63	7
3684MH0001520021302621C00	2621	14098	6.24	-0.1	0.1	28.9	0.5	31	8

UPDATED: 15_September_2023

SOL 3684 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Urutanim – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3684MH0001520011302623C00			
BEST FOCUS IMAGE:	3687MH0001630001302684R00	2684	MOTOR COUNT:	13963	RANGE (cm):	7.1	
RANGE MAP PRODUCT:	3687MH0001630001302685S00	2685	ACQUIRED SEQUENCE:	mhli00152	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	17-Dec-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3684	FOCUS MERGED ON SOL:	3687		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3684MH0001520021302624C00	2624	13771	8.63	-0.2	0.2	37.3	0.8	255	1
3684MH0001520021302625C00	2625	13819	8.20	-0.2	0.2	35.8	0.7	223	2
3684MH0001520021302626C00	2626	13867	7.81	-0.2	0.2	34.4	0.7	191	3
3684MH0001520021302627C00	2627	13915	7.44	-0.2	0.2	33.1	0.6	159	4
3684MH0001520021302628C00	2628	13963	7.09	-0.2	0.2	31.9	0.6	127	5
3684MH0001520021302629C00	2629	14011	6.77	-0.2	0.2	30.7	0.6	95	6
3684MH0001520021302630C00	2630	14059	6.47	-0.2	0.1	29.7	0.5	63	7
3684MH0001520021302631C00	2631	14107	6.19	-0.1	0.1	28.7	0.5	31	8

UPDATED: 15_September_2023

SOL 3684 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



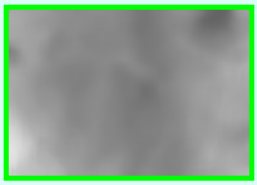

target Urutanim – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3684MH0003110011302633C00			
BEST FOCUS IMAGE:	3687MH0001630001302682R00	2682	MOTOR COUNT:	14584	RANGE (cm):	4.1	
RANGE MAP PRODUCT:	3687MH0001630001302683S00	2683	ACQUIRED SEQUENCE:	mhli00311	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	17-Dec-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	66	ACQUIRED ON SOL:	3684	FOCUS MERGED ON SOL:	3687		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3684MH0003110021302634C00	2634	14320	5.13	-0.1	0.1	25.0	0.4	255	1
3684MH0003110021302635C00	2635	14386	4.85	-0.1	0.1	24.0	0.4	223	2
3684MH0003110021302636C00	2636	14452	4.60	-0.1	0.1	23.1	0.3	191	3
3684MH0003110021302637C00	2637	14518	4.36	-0.1	0.1	22.2	0.3	159	4
3684MH0003110021302638C00	2638	14584	4.14	-0.1	0.1	21.5	0.3	127	5
3684MH0003110021302639C00	2639	14650	3.93	-0.1	0.1	20.7	0.3	95	6
3684MH0003110021302640C00	2640	14716	3.74	-0.1	0.1	20.1	0.3	63	7
3684MH0003110021302641C00	2641	14782	3.56	-0.1	0.1	19.4	0.3	31	8

UPDATED: 15_September_2023

SOL 3684 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

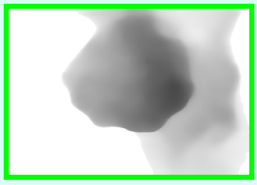
Amapari drill cuttings – after sol 3676 drill attempt – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3684MH0001730011302643C00			
BEST FOCUS IMAGE:	3687MH0001630001302680R00	2680	MOTOR COUNT:	14109	RANGE (cm):	6.2	
RANGE MAP PRODUCT:	3687MH0001630001302681S00	2681	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	17-Dec-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3684	FOCUS MERGED ON SOL:	3687		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3684MH0001730021302644C00	2644	13989	6.92	-0.2	0.2	31.2	0.6	255	1
3684MH0001730021302645C00	2645	14019	6.72	-0.2	0.2	30.6	0.6	223	2
3684MH0001730021302646C00	2646	14049	6.53	-0.2	0.1	29.9	0.5	191	3
3684MH0001730021302647C00	2647	14079	6.35	-0.2	0.1	29.3	0.5	159	4
3684MH0001730021302648C00	2648	14109	6.18	-0.1	0.1	28.7	0.5	127	5
3684MH0001730021302649C00	2649	14139	6.01	-0.1	0.1	28.1	0.5	95	6
3684MH0001730021302650C00	2650	14169	5.85	-0.1	0.1	27.5	0.4	63	7
3684MH0001730021302651C00	2651	14199	5.70	-0.1	0.1	27.0	0.4	31	8

UPDATED: 15_September_2023

SOL 3684 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

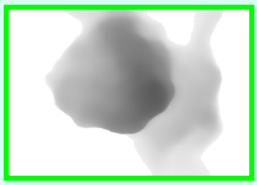
target Jundia – stereo-1 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3684MH0002990011302655C00			
BEST FOCUS IMAGE:	3687MH0001630001302678R00	2678	MOTOR COUNT:	14085	RANGE (cm):	6.3	
RANGE MAP PRODUCT:	3687MH0001630001302679S00	2679	ACQUIRED SEQUENCE:	mhli00299	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	17-Dec-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3684	FOCUS MERGED ON SOL:	3687		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3684MH0002990021302656C00	2656	13941	7.25	-0.2	0.2	32.4	0.6	255	1
3684MH0002990021302657C00	2657	13977	7.00	-0.2	0.2	31.5	0.6	223	2
3684MH0002990021302658C00	2658	14013	6.76	-0.2	0.2	30.7	0.6	191	3
3684MH0002990021302659C00	2659	14049	6.53	-0.2	0.1	29.9	0.5	159	4
3684MH0002990021302660C00	2660	14085	6.32	-0.1	0.1	29.1	0.5	127	5
3684MH0002990021302661C00	2661	14121	6.11	-0.1	0.1	28.4	0.5	95	6
3684MH0002990021302662C00	2662	14157	5.92	-0.1	0.1	27.7	0.4	63	7
3684MH0002990021302663C00	2663	14193	5.73	-0.1	0.1	27.1	0.4	31	8

UPDATED: 15_September_2023

SOL 3684 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Jundia – stereo-2 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3684MH0002990011302665C00			
BEST FOCUS IMAGE:	3687MH0001630001302676R00	2676	MOTOR COUNT:	14105	RANGE (cm):	6.2	
RANGE MAP PRODUCT:	3687MH0001630001302677S00	2677	ACQUIRED SEQUENCE:	mhli00299	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	17-Dec-22		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3684	FOCUS MERGED ON SOL:	3687		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3684MH0002990021302666C00	2666	13961	7.11	-0.2	0.2	31.9	0.6	255	1
3684MH0002990021302667C00	2667	13997	6.86	-0.2	0.2	31.1	0.6	223	2
3684MH0002990021302668C00	2668	14033	6.63	-0.2	0.2	30.2	0.6	191	3
3684MH0002990021302669C00	2669	14069	6.41	-0.2	0.1	29.5	0.5	159	4
3684MH0002990021302670C00	2670	14105	6.20	-0.1	0.1	28.7	0.5	127	5
3684MH0002990021302671C00	2671	14141	6.00	-0.1	0.1	28.0	0.5	95	6
3684MH0002990021302672C00	2672	14177	5.81	-0.1	0.1	27.4	0.4	63	7
3684MH0002990021302673C00	2673	14213	5.63	-0.1	0.1	26.7	0.4	31	8

UPDATED: 15_September_2023

SOL 3688 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



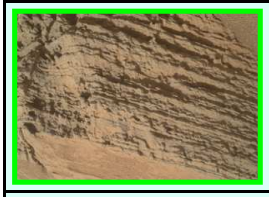
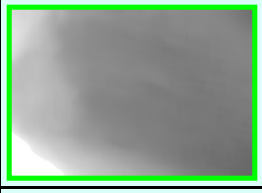

target Tucuxuma – mosaic position 1 of 3 – ~24 cm standoff

		CDPID	CORRESPONDING FRAME:	3688MH0008550011302689C00			
BEST FOCUS IMAGE:	3688MH0002270001302748R00	2748	MOTOR COUNT:	13035	RANGE (cm):	25.5	
RANGE MAP PRODUCT:	3688MH0002270001302749S00	2749	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	21-Dec-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3688	FOCUS MERGED ON SOL:	3688		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3688MH0008550021302690C00	2690	12915	34.40	-2.9	3.5	128.0	11.2	255	1
3688MH0008550021302691C00	2691	12945	31.68	-2.5	2.9	118.4	9.5	223	2
3688MH0008550021302692C00	2692	12975	29.32	-2.2	2.5	110.1	8.1	191	3
3688MH0008550021302693C00	2693	13005	27.27	-1.9	2.1	102.9	7.0	159	4
3688MH0008550021302694C00	2694	13035	25.47	-1.6	1.8	96.5	6.1	127	5
3688MH0008550021302695C00	2695	13065	23.87	-1.5	1.6	90.9	5.4	95	6
3688MH0008550021302696C00	2696	13095	22.44	-1.3	1.4	85.9	4.8	63	7
3688MH0008550021302697C00	2697	13125	21.16	-1.2	1.3	81.4	4.2	31	8

UPDATED: 15_September_2023

SOL 3688 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

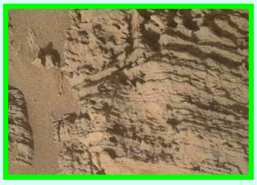
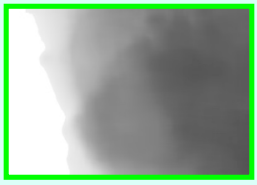
target Tucuxuma – mosaic position 2 of 3 – ~25 cm standoff

		CDPID	CORRESPONDING FRAME:	3688MH0008550011302699C00			
BEST FOCUS IMAGE:	3688MH0002270001302746R00	2746	MOTOR COUNT:	13016	RANGE (cm):	26.6	
RANGE MAP PRODUCT:	3688MH0002270001302747S00	2747	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	21-Dec-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3688	FOCUS MERGED ON SOL:	3688		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3688MH0008550021302700C00	2700	12896	36.37	-3.2	3.9	134.9	12.6	255	1
3688MH0008550021302701C00	2701	12926	33.35	-2.8	3.3	124.3	10.6	223	2
3688MH0008550021302702C00	2702	12956	30.77	-2.4	2.7	115.2	9.0	191	3
3688MH0008550021302703C00	2703	12986	28.54	-2.0	2.3	107.4	7.7	159	4
3688MH0008550021302704C00	2704	13016	26.58	-1.8	2.0	100.5	6.7	127	5
3688MH0008550021302705C00	2705	13046	24.86	-1.6	1.7	94.4	5.8	95	6
3688MH0008550021302706C00	2706	13076	23.33	-1.4	1.5	89.0	5.1	63	7
3688MH0008550021302707C00	2707	13106	21.96	-1.2	1.4	84.2	4.6	31	8

UPDATED: 15_September_2023

SOL 3688 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

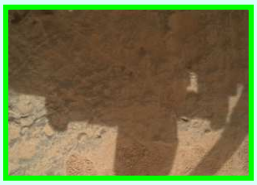
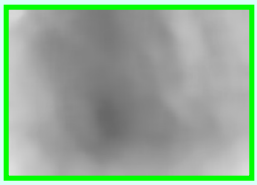
target Tucuxuma – mosaic position 3 of 3 – ~28 cm standoff

		CDPID	CORRESPONDING FRAME:	3688MH0008550011302709C00			
BEST FOCUS IMAGE:	3688MH0002270001302744R00	2744	MOTOR COUNT:	12972	RANGE (cm):	29.5	
RANGE MAP PRODUCT:	3688MH0002270001302745S00	2745	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	21-Dec-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3688	FOCUS MERGED ON SOL:	3688		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3688MH0008550021302710C00	2710	12852	41.84	-4.2	5.3	154.2	16.8	255	1
3688MH0008550021302711C00	2711	12882	37.96	-3.5	4.3	140.5	13.7	223	2
3688MH0008550021302712C00	2712	12912	34.70	-3.0	3.5	129.1	11.4	191	3
3688MH0008550021302713C00	2713	12942	31.93	-2.5	3.0	119.3	9.7	159	4
3688MH0008550021302714C00	2714	12972	29.54	-2.2	2.5	110.9	8.3	127	5
3688MH0008550021302715C00	2715	13002	27.46	-1.9	2.2	103.6	7.1	95	6
3688MH0008550021302716C00	2716	13032	25.64	-1.7	1.9	97.1	6.2	63	7
3688MH0008550021302717C00	2717	13062	24.02	-1.5	1.6	91.5	5.4	31	8

UPDATED: 15_September_2023

SOL 3688 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Tamandua – stereo-1 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3688MH0001730011302721C00			
BEST FOCUS IMAGE:	3688MH0002270001302742R00	2742	MOTOR COUNT:	14049	RANGE (cm):	6.5	
RANGE MAP PRODUCT:	3688MH0002270001302743S00	2743	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	21-Dec-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3688	FOCUS MERGED ON SOL:	3688		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3688MH0001730021302722C00	2722	13929	7.33	-0.2	0.2	32.7	0.6	255	1
3688MH0001730021302723C00	2723	13959	7.12	-0.2	0.2	32.0	0.6	223	2
3688MH0001730021302724C00	2724	13989	6.92	-0.2	0.2	31.2	0.6	191	3
3688MH0001730021302725C00	2725	14019	6.72	-0.2	0.2	30.6	0.6	159	4
3688MH0001730021302726C00	2726	14049	6.53	-0.2	0.1	29.9	0.5	127	5
3688MH0001730021302727C00	2727	14079	6.35	-0.2	0.1	29.3	0.5	95	6
3688MH0001730021302728C00	2728	14109	6.18	-0.1	0.1	28.7	0.5	63	7
3688MH0001730021302729C00	2729	14139	6.01	-0.1	0.1	28.1	0.5	31	8

UPDATED: 15_September_2023

SOL 3688 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





target Tamandua – stereo-2 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3688MH0001730011302731C00			
BEST FOCUS IMAGE:	3688MH0002270001302740R00	2740	MOTOR COUNT:	14040	RANGE (cm):	6.6	
RANGE MAP PRODUCT:	3688MH0002270001302741S00	2741	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	21-Dec-22		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3688	FOCUS MERGED ON SOL:	3688		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3688MH0001730021302732C00	2732	13920	7.40	-0.2	0.2	32.9	0.6	255	1
3688MH0001730021302733C00	2733	13950	7.18	-0.2	0.2	32.2	0.6	223	2
3688MH0001730021302734C00	2734	13980	6.98	-0.2	0.2	31.5	0.6	191	3
3688MH0001730021302735C00	2735	14010	6.78	-0.2	0.2	30.8	0.6	159	4
3688MH0001730021302736C00	2736	14040	6.59	-0.2	0.2	30.1	0.5	127	5
3688MH0001730021302737C00	2737	14070	6.41	-0.2	0.1	29.4	0.5	95	6
3688MH0001730021302738C00	2738	14100	6.23	-0.1	0.1	28.8	0.5	63	7
3688MH0001730021302739C00	2739	14130	6.06	-0.1	0.1	28.2	0.5	31	8

UPDATED: 15_September_2023

SOL 3689 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



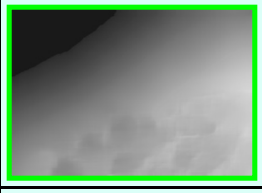

target Wapixana – mosaic position 1 of 6 – ~26 cm standoff

		CDPID	CORRESPONDING FRAME:	3689MH0008550011302751C00			
BEST FOCUS IMAGE:	3690MH0001700001302848R00	2848	MOTOR COUNT:	13002	RANGE (cm):	27.5	
RANGE MAP PRODUCT:	3690MH0001700001302849S00	2849	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Dec-22		MERGE SEQUENCE:	mhli00170	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3689	FOCUS MERGED ON SOL:	3690		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3689MH0008550021302752C00	2752	12882	37.96	-3.5	4.3	140.5	13.7	255	1
3689MH0008550021302753C00	2753	12912	34.70	-3.0	3.5	129.1	11.4	223	2
3689MH0008550021302754C00	2754	12942	31.93	-2.5	3.0	119.3	9.7	191	3
3689MH0008550021302755C00	2755	12972	29.54	-2.2	2.5	110.9	8.3	159	4
3689MH0008550021302756C00	2756	13002	27.46	-1.9	2.2	103.6	7.1	127	5
3689MH0008550021302757C00	2757	13032	25.64	-1.7	1.9	97.1	6.2	95	6
3689MH0008550021302758C00	2758	13062	24.02	-1.5	1.6	91.5	5.4	63	7
3689MH0008550021302759C00	2759	13092	22.58	-1.3	1.4	86.4	4.8	31	8

UPDATED: 15_September_2023

SOL 3689 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

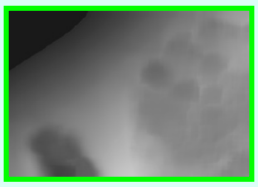
target Wapixana – mosaic position 2 of 6 – ~22 cm standoff

		CDPID	CORRESPONDING FRAME:	3689MH0008550011302761C00			
BEST FOCUS IMAGE:	3690MH0001700001302846R00	2846	MOTOR COUNT:	13056	RANGE (cm):	24.3	
RANGE MAP PRODUCT:	3690MH0001700001302847S00	2847	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Dec-22		MERGE SEQUENCE:	mhli00170	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3689	FOCUS MERGED ON SOL:	3690		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3689MH0008550021302762C00	2762	12936	32.45	-2.6	3.1	121.1	10.0	255	1
3689MH0008550021302763C00	2763	12966	29.99	-2.2	2.6	112.5	8.5	223	2
3689MH0008550021302764C00	2764	12996	27.86	-2.0	2.2	105.0	7.3	191	3
3689MH0008550021302765C00	2765	13026	25.99	-1.7	1.9	98.4	6.4	159	4
3689MH0008550021302766C00	2766	13056	24.33	-1.5	1.7	92.5	5.6	127	5
3689MH0008550021302767C00	2767	13086	22.85	-1.3	1.5	87.3	4.9	95	6
3689MH0008550021302768C00	2768	13116	21.53	-1.2	1.3	82.7	4.4	63	7
3689MH0008550021302769C00	2769	13146	20.34	-1.1	1.2	78.5	3.9	31	8

UPDATED: 15_September_2023

SOL 3689 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

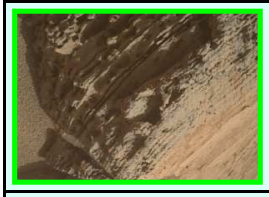
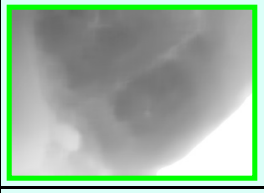
target Wapixana – mosaic position 3 of 6 – ~24 cm standoff

		CDPID	CORRESPONDING FRAME:	3689MH0008550011302771C00			
BEST FOCUS IMAGE:	3690MH0001700001302844R00	2844	MOTOR COUNT:	13034	RANGE (cm):	25.5	
RANGE MAP PRODUCT:	3690MH0001700001302845S00	2845	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Dec-22		MERGE SEQUENCE:	mhli00170	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3689	FOCUS MERGED ON SOL:	3690		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3689MH0008550021302772C00	2772	12914	34.50	-2.9	3.5	128.4	11.3	255	1
3689MH0008550021302773C00	2773	12944	31.76	-2.5	2.9	118.7	9.6	223	2
3689MH0008550021302774C00	2774	12974	29.40	-2.2	2.5	110.4	8.2	191	3
3689MH0008550021302775C00	2775	13004	27.34	-1.9	2.1	103.1	7.1	159	4
3689MH0008550021302776C00	2776	13034	25.52	-1.7	1.8	96.7	6.1	127	5
3689MH0008550021302777C00	2777	13064	23.92	-1.5	1.6	91.1	5.4	95	6
3689MH0008550021302778C00	2778	13094	22.49	-1.3	1.4	86.1	4.8	63	7
3689MH0008550021302779C00	2779	13124	21.20	-1.2	1.3	81.5	4.2	31	8

UPDATED: 15_September_2023

SOL 3689 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

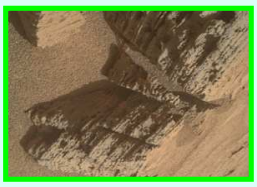
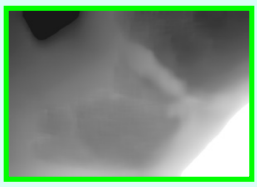
target Wapixana – mosaic position 4 of 6 – ~24 cm standoff

		CDPID	CORRESPONDING FRAME:	3689MH0008550011302781C00			
BEST FOCUS IMAGE:	3690MH0001700001302842R00	2842	MOTOR COUNT:	13022	RANGE (cm):	26.2	
RANGE MAP PRODUCT:	3690MH0001700001302843S00	2843	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Dec-22		MERGE SEQUENCE:	mhli00170	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3689	FOCUS MERGED ON SOL:	3690		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3689MH0008550021302782C00	2782	12902	35.73	-3.1	3.8	132.7	12.1	255	1
3689MH0008550021302783C00	2783	12932	32.81	-2.7	3.1	122.4	10.2	223	2
3689MH0008550021302784C00	2784	12962	30.30	-2.3	2.7	113.6	8.7	191	3
3689MH0008550021302785C00	2785	12992	28.13	-2.0	2.3	105.9	7.5	159	4
3689MH0008550021302786C00	2786	13022	26.22	-1.7	2.0	99.2	6.5	127	5
3689MH0008550021302787C00	2787	13052	24.54	-1.5	1.7	93.3	5.7	95	6
3689MH0008550021302788C00	2788	13082	23.04	-1.4	1.5	88.0	5.0	63	7
3689MH0008550021302789C00	2789	13112	21.70	-1.2	1.3	83.3	4.4	31	8

UPDATED: 15_September_2023

SOL 3689 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

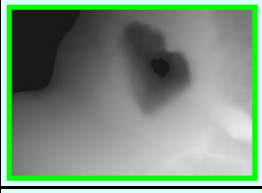
target Wapixana – mosaic position 5 of 6 – ~30 cm standoff

		CDPID	CORRESPONDING FRAME:	3689MH0008550011302791C00			
BEST FOCUS IMAGE:	3690MH0001700001302840R00	2840	MOTOR COUNT:	12946	RANGE (cm):	31.6	
RANGE MAP PRODUCT:	3690MH0001700001302841S00	2841	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Dec-22		MERGE SEQUENCE:	mhli00170	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3689	FOCUS MERGED ON SOL:	3690		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3689MH0008550021302792C00	2792	12826	45.86	-5.0	6.5	168.3	20.3	255	1
3689MH0008550021302793C00	2793	12856	41.28	-4.1	5.1	152.2	16.3	223	2
3689MH0008550021302794C00	2794	12886	37.49	-3.4	4.2	138.9	13.4	191	3
3689MH0008550021302795C00	2795	12916	34.31	-2.9	3.5	127.7	11.2	159	4
3689MH0008550021302796C00	2796	12946	31.59	-2.5	2.9	118.1	9.5	127	5
3689MH0008550021302797C00	2797	12976	29.25	-2.1	2.5	109.9	8.1	95	6
3689MH0008550021302798C00	2798	13006	27.21	-1.9	2.1	102.7	7.0	63	7
3689MH0008550021302799C00	2799	13036	25.41	-1.6	1.8	96.3	6.1	31	8

UPDATED: 15_September_2023

SOL 3689 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Wapixana – mosaic position 6 of 6 – ~24 cm standoff

		CDPID	CORRESPONDING FRAME:	3689MH0008550011302801C00			
BEST FOCUS IMAGE:	3690MH0001700001302838R00	2838	MOTOR COUNT:	13020	RANGE (cm):	26.3	
RANGE MAP PRODUCT:	3690MH0001700001302839S00	2839	ACQUIRED SEQUENCE:	mhli00855	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Dec-22		MERGE SEQUENCE:	mhli00170	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3689	FOCUS MERGED ON SOL:	3690		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3689MH0008550021302802C00	2802	12900	35.94	-3.2	3.8	133.4	12.3	255	1
3689MH0008550021302803C00	2803	12930	32.99	-2.7	3.2	123.0	10.3	223	2
3689MH0008550021302804C00	2804	12960	30.46	-2.3	2.7	114.1	8.8	191	3
3689MH0008550021302805C00	2805	12990	28.26	-2.0	2.3	106.4	7.5	159	4
3689MH0008550021302806C00	2806	13020	26.34	-1.8	2.0	99.6	6.6	127	5
3689MH0008550021302807C00	2807	13050	24.64	-1.5	1.7	93.7	5.7	95	6
3689MH0008550021302808C00	2808	13080	23.14	-1.4	1.5	88.3	5.1	63	7
3689MH0008550021302809C00	2809	13110	21.78	-1.2	1.3	83.6	4.5	31	8

UPDATED: 15_September_2023

SOL 3689 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



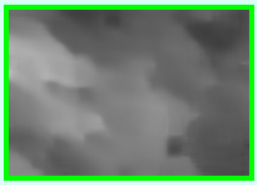

target Truaru – stereo-1 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3689MH0002240011302813C00			
BEST FOCUS IMAGE:	3690MH0001700001302836R00	2836	MOTOR COUNT:	14124	RANGE (cm):	6.1	
RANGE MAP PRODUCT:	3690MH0001700001302837S00	2837	ACQUIRED SEQUENCE:	mhli00224	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Dec-22		MERGE SEQUENCE:	mhli00170	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3689	FOCUS MERGED ON SOL:	3690		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3689MH0002240021302814C00	2814	13956	7.14	-0.2	0.2	32.0	0.6	255	1
3689MH0002240021302815C00	2815	13998	6.86	-0.2	0.2	31.0	0.6	223	2
3689MH0002240021302816C00	2816	14040	6.59	-0.2	0.2	30.1	0.5	191	3
3689MH0002240021302817C00	2817	14082	6.33	-0.2	0.1	29.2	0.5	159	4
3689MH0002240021302818C00	2818	14124	6.10	-0.1	0.1	28.4	0.5	127	5
3689MH0002240021302819C00	2819	14166	5.87	-0.1	0.1	27.6	0.4	95	6
3689MH0002240021302820C00	2820	14208	5.65	-0.1	0.1	26.8	0.4	63	7
3689MH0002240021302821C00	2821	14250	5.45	-0.1	0.1	26.1	0.4	31	8

UPDATED: 15_September_2023

SOL 3689 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Truaru – stereo-2 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3689MH0002240011302823C00			
BEST FOCUS IMAGE:	3690MH0001700001302834R00	2834	MOTOR COUNT:	14126	RANGE (cm):	6.1	
RANGE MAP PRODUCT:	3690MH0001700001302835S00	2835	ACQUIRED SEQUENCE:	mhli00224	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Dec-22		MERGE SEQUENCE:	mhli00170	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3689	FOCUS MERGED ON SOL:	3690		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3689MH0002240021302824C00	2824	13958	7.13	-0.2	0.2	32.0	0.6	255	1
3689MH0002240021302825C00	2825	14000	6.84	-0.2	0.2	31.0	0.6	223	2
3689MH0002240021302826C00	2826	14042	6.58	-0.2	0.2	30.0	0.5	191	3
3689MH0002240021302827C00	2827	14084	6.32	-0.1	0.1	29.2	0.5	159	4
3689MH0002240021302828C00	2828	14126	6.08	-0.1	0.1	28.3	0.5	127	5
3689MH0002240021302829C00	2829	14168	5.86	-0.1	0.1	27.5	0.4	95	6
3689MH0002240021302830C00	2830	14210	5.64	-0.1	0.1	26.8	0.4	63	7
3689MH0002240021302831C00	2831	14252	5.44	-0.1	0.1	26.0	0.4	31	8

UPDATED: 15_September_2023

SOL 3699 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



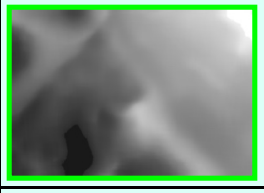

target Corume – stereo-1 – ~35 mm standoff

			CDPID	CORRESPONDING FRAME:			
				3699MH0007630011302854C00			
BEST FOCUS IMAGE:	3700MH0006950001302922R00		2922	MOTOR COUNT:	14249	RANGE (cm):	5.5
RANGE MAP PRODUCT:	3700MH0006950001302923S00		2923	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE
ACQUIRED ON DATE:	1-Jan-23			MERGE SEQUENCE:	mhli00695	MERGE TYPE:	BASIC
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3699	FOCUS MERGED ON SOL:	3700		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3699MH0007630031302856C00	2856	14153	5.94	-0.1	0.1	27.8	0.5	255	1
3699MH0007630031302857C00	2857	14177	5.81	-0.1	0.1	27.4	0.4	223	2
3699MH0007630031302858C00	2858	14201	5.69	-0.1	0.1	26.9	0.4	191	3
3699MH0007630031302859C00	2859	14225	5.57	-0.1	0.1	26.5	0.4	159	4
3699MH0007630031302860C00	2860	14249	5.45	-0.1	0.1	26.1	0.4	127	5
3699MH0007630031302861C00	2861	14273	5.34	-0.1	0.1	25.7	0.4	95	6
3699MH0007630031302862C00	2862	14297	5.23	-0.1	0.1	25.3	0.4	63	7
3699MH0007630031302863C00	2863	14321	5.13	-0.1	0.1	24.9	0.4	31	8

UPDATED: 15_September_2023

SOL 3699 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

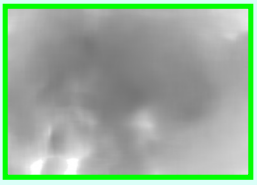
target Corume – stereo-2 – ~35 mm standoff

			CDPID	CORRESPONDING FRAME:			
				3699MH0007630011302865C00			
BEST FOCUS IMAGE:	3700MH0006950001302920R00		2920	MOTOR COUNT:	14235	RANGE (cm):	5.5
RANGE MAP PRODUCT:	3700MH0006950001302921S00		2921	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE
ACQUIRED ON DATE:	1-Jan-23			MERGE SEQUENCE:	mhli00695	MERGE TYPE:	BASIC
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3699	FOCUS MERGED ON SOL:	3700		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3699MH0007630031302867C00	2867	14139	6.01	-0.1	0.1	28.1	0.5	255	1
3699MH0007630031302868C00	2868	14163	5.88	-0.1	0.1	27.6	0.4	223	2
3699MH0007630031302869C00	2869	14187	5.76	-0.1	0.1	27.2	0.4	191	3
3699MH0007630031302870C00	2870	14211	5.64	-0.1	0.1	26.7	0.4	159	4
3699MH0007630031302871C00	2871	14235	5.52	-0.1	0.1	26.3	0.4	127	5
3699MH0007630031302872C00	2872	14259	5.41	-0.1	0.1	25.9	0.4	95	6
3699MH0007630031302873C00	2873	14283	5.30	-0.1	0.1	25.5	0.4	63	7
3699MH0007630031302874C00	2874	14307	5.19	-0.1	0.1	25.2	0.4	31	8

UPDATED: 15_September_2023

SOL 3699 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Mapuera – APXS spot 2 – stereo-1 – ~35 mm standoff

		CDPID	CORRESPONDING FRAME:	3699MH0008340011302879C00			
BEST FOCUS IMAGE:	3700MH0006950001302918R00	2918	MOTOR COUNT:	14264	RANGE (cm):	5.4	
RANGE MAP PRODUCT:	3700MH0006950001302919S00	2919	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	1-Jan-23		MERGE SEQUENCE:	mhli00695	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3699	FOCUS MERGED ON SOL:	3700		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3699MH0008340031302881C00	2881	14192	5.73	-0.1	0.1	27.1	0.4	255	1
3699MH0008340031302882C00	2882	14210	5.64	-0.1	0.1	26.8	0.4	223	2
3699MH0008340031302883C00	2883	14228	5.55	-0.1	0.1	26.5	0.4	191	3
3699MH0008340031302884C00	2884	14246	5.47	-0.1	0.1	26.1	0.4	159	4
3699MH0008340031302885C00	2885	14264	5.38	-0.1	0.1	25.8	0.4	127	5
3699MH0008340031302886C00	2886	14282	5.30	-0.1	0.1	25.6	0.4	95	6
3699MH0008340031302887C00	2887	14300	5.22	-0.1	0.1	25.3	0.4	63	7
3699MH0008340031302888C00	2888	14318	5.14	-0.1	0.1	25.0	0.4	31	8

UPDATED: 15_September_2023

SOL 3699 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



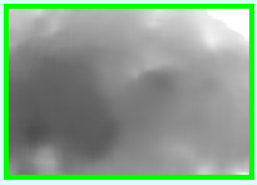

target Mapuera – APXS spot 2 – stereo-2 – ~35 mm standoff

		CDPID	CORRESPONDING FRAME:	3699MH0008340011302890C00			
BEST FOCUS IMAGE:	3700MH0006950001302916R00	2916	MOTOR COUNT:	14264	RANGE (cm):	5.4	
RANGE MAP PRODUCT:	3700MH0006950001302917S00	2917	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	1-Jan-23		MERGE SEQUENCE:	mhli00695	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3699	FOCUS MERGED ON SOL:	3700		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3699MH0008340031302892C00	2892	14192	5.73	-0.1	0.1	27.1	0.4	255	1
3699MH0008340031302893C00	2893	14210	5.64	-0.1	0.1	26.8	0.4	223	2
3699MH0008340031302894C00	2894	14228	5.55	-0.1	0.1	26.5	0.4	191	3
3699MH0008340031302895C00	2895	14246	5.47	-0.1	0.1	26.1	0.4	159	4
3699MH0008340031302896C00	2896	14264	5.38	-0.1	0.1	25.8	0.4	127	5
3699MH0008340031302897C00	2897	14282	5.30	-0.1	0.1	25.6	0.4	95	6
3699MH0008340031302898C00	2898	14300	5.22	-0.1	0.1	25.3	0.4	63	7
3699MH0008340031302899C00	2899	14318	5.14	-0.1	0.1	25.0	0.4	31	8

UPDATED: 15_September_2023

SOL 3699 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

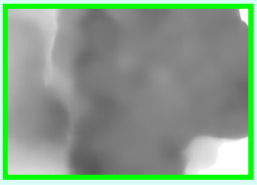
target Mapuera – APXS spot 1 – ~35 mm standoff

		CDPID	CORRESPONDING FRAME:	3699MH0008340011302901C00			
BEST FOCUS IMAGE:	3700MH0006950001302914R00	2914	MOTOR COUNT:	14240	RANGE (cm):	5.5	
RANGE MAP PRODUCT:	3700MH0006950001302915S00	2915	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	1-Jan-23		MERGE SEQUENCE:	mhli00695	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3699	FOCUS MERGED ON SOL:	3700		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3699MH0008340031302903C00	2903	14168	5.86	-0.1	0.1	27.5	0.4	255	1
3699MH0008340031302904C00	2904	14186	5.76	-0.1	0.1	27.2	0.4	223	2
3699MH0008340031302905C00	2905	14204	5.67	-0.1	0.1	26.9	0.4	191	3
3699MH0008340031302906C00	2906	14222	5.58	-0.1	0.1	26.6	0.4	159	4
3699MH0008340031302907C00	2907	14240	5.50	-0.1	0.1	26.2	0.4	127	5
3699MH0008340031302908C00	2908	14258	5.41	-0.1	0.1	25.9	0.4	95	6
3699MH0008340031302909C00	2909	14276	5.33	-0.1	0.1	25.7	0.4	63	7
3699MH0008340031302910C00	2910	14294	5.25	-0.1	0.1	25.4	0.4	31	8

UPDATED: 15_September_2023

SOL 3702 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Anarem – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3702MH0001730011302927C00			
BEST FOCUS IMAGE:	3703MH0002270001302994R00	2994	MOTOR COUNT:	14014	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3703MH0002270001302995S00	2995	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	5-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3702	FOCUS MERGED ON SOL:	3703		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3702MH0001730021302928C00	2928	13894	7.60	-0.2	0.2	33.6	0.7	255	1
3702MH0001730021302929C00	2929	13924	7.37	-0.2	0.2	32.8	0.6	223	2
3702MH0001730021302930C00	2930	13954	7.16	-0.2	0.2	32.1	0.6	191	3
3702MH0001730021302931C00	2931	13984	6.95	-0.2	0.2	31.4	0.6	159	4
3702MH0001730021302932C00	2932	14014	6.75	-0.2	0.2	30.7	0.6	127	5
3702MH0001730021302933C00	2933	14044	6.56	-0.2	0.1	30.0	0.5	95	6
3702MH0001730021302934C00	2934	14074	6.38	-0.2	0.1	29.4	0.5	63	7
3702MH0001730021302935C00	2935	14104	6.21	-0.1	0.1	28.8	0.5	31	8

UPDATED: 15_September_2023

SOL 3702 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



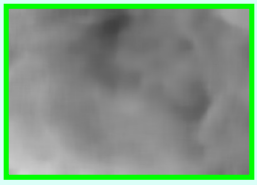

target Anarem – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3702MH0001730011302937C00			
BEST FOCUS IMAGE:	3703MH0002270001302992R00	2992	MOTOR COUNT:	14008	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3703MH0002270001302993S00	2993	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	5-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3702	FOCUS MERGED ON SOL:	3703		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3702MH0001730021302938C00	2938	13888	7.64	-0.2	0.2	33.8	0.7	255	1
3702MH0001730021302939C00	2939	13918	7.42	-0.2	0.2	33.0	0.6	223	2
3702MH0001730021302940C00	2940	13948	7.20	-0.2	0.2	32.2	0.6	191	3
3702MH0001730021302941C00	2941	13978	6.99	-0.2	0.2	31.5	0.6	159	4
3702MH0001730021302942C00	2942	14008	6.79	-0.2	0.2	30.8	0.6	127	5
3702MH0001730021302943C00	2943	14038	6.60	-0.2	0.2	30.1	0.5	95	6
3702MH0001730021302944C00	2944	14068	6.42	-0.2	0.1	29.5	0.5	63	7
3702MH0001730021302945C00	2945	14098	6.24	-0.1	0.1	28.9	0.5	31	8

UPDATED: 15_September_2023

SOL 3702 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

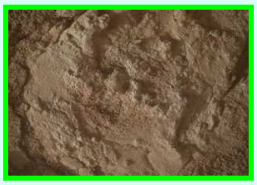
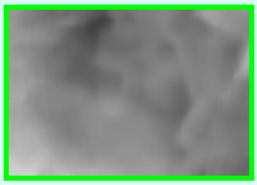
target Uafaranda – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3702MH0008340011302954C00			
BEST FOCUS IMAGE:	3703MH0002270001302990R00	2990	MOTOR COUNT:	14001	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3703MH0002270001302991S00	2991	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	5-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3702	FOCUS MERGED ON SOL:	3703		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3702MH0008340031302956C00	2956	13929	7.33	-0.2	0.2	32.7	0.6	255	1
3702MH0008340031302957C00	2957	13947	7.21	-0.2	0.2	32.3	0.6	223	2
3702MH0008340031302958C00	2958	13965	7.08	-0.2	0.2	31.8	0.6	191	3
3702MH0008340031302959C00	2959	13983	6.96	-0.2	0.2	31.4	0.6	159	4
3702MH0008340031302960C00	2960	14001	6.84	-0.2	0.2	31.0	0.6	127	5
3702MH0008340031302961C00	2961	14019	6.72	-0.2	0.2	30.6	0.6	95	6
3702MH0008340031302962C00	2962	14037	6.61	-0.2	0.2	30.2	0.5	63	7
3702MH0008340031302963C00	2963	14055	6.50	-0.2	0.1	29.8	0.5	31	8

UPDATED: 15_September_2023

SOL 3702 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

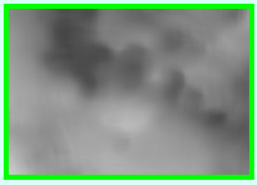
target Uafaranda – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3702MH0008340011302965C00			
BEST FOCUS IMAGE:	3703MH0002270001302988R00	2988	MOTOR COUNT:	14002	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3703MH0002270001302989S00	2989	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	5-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3702	FOCUS MERGED ON SOL:	3703		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3702MH0008340031302967C00	2967	13930	7.33	-0.2	0.2	32.7	0.6	255	1
3702MH0008340031302968C00	2968	13948	7.20	-0.2	0.2	32.2	0.6	223	2
3702MH0008340031302969C00	2969	13966	7.07	-0.2	0.2	31.8	0.6	191	3
3702MH0008340031302970C00	2970	13984	6.95	-0.2	0.2	31.4	0.6	159	4
3702MH0008340031302971C00	2971	14002	6.83	-0.2	0.2	30.9	0.6	127	5
3702MH0008340031302972C00	2972	14020	6.71	-0.2	0.2	30.5	0.6	95	6
3702MH0008340031302973C00	2973	14038	6.60	-0.2	0.2	30.1	0.5	63	7
3702MH0008340031302974C00	2974	14056	6.49	-0.2	0.1	29.7	0.5	31	8

UPDATED: 15_September_2023

SOL 3702 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

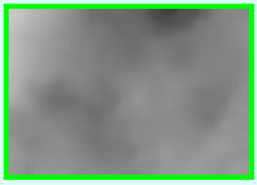
target Uafaranda – after DRT – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3702MH0008350011302976C00			
BEST FOCUS IMAGE:	3703MH0002270001302986R00	2986	MOTOR COUNT:	15105	RANGE (cm):	2.8	
RANGE MAP PRODUCT:	3703MH0002270001302987S00	2987	ACQUIRED SEQUENCE:	mhli00835	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	5-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3702	FOCUS MERGED ON SOL:	3703		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3702MH0008350031302978C00	2978	14985	3.07	-0.1	0.1	17.7	0.2	255	1
3702MH0008350031302979C00	2979	15015	3.01	-0.1	0.1	17.5	0.2	223	2
3702MH0008350031302980C00	2980	15045	2.94	-0.1	0.1	17.3	0.2	191	3
3702MH0008350031302981C00	2981	15075	2.88	-0.1	0.1	17.1	0.2	159	4
3702MH0008350031302982C00	2982	15105	2.82	-0.1	0.1	16.8	0.2	127	5
3702MH0008350031302983C00	2983	15135	2.77	-0.1	0.1	16.6	0.2	95	6
3702MH0008350031302984C00	2984	15165	2.71	-0.1	0.1	16.4	0.2	63	7
3702MH0008350031302985C00	2985	15195	2.66	-0.1	0.1	16.2	0.2	31	8

UPDATED: 15_September_2023

SOL 3705 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Waimiri – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3705MH0007630011303004C00			
BEST FOCUS IMAGE:	3706MH0002270001303066R00	3066	MOTOR COUNT:	13994	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3706MH0002270001303067S00	3067	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	8-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3705	FOCUS MERGED ON SOL:	3706		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3705MH0007630031303006C00	3006	13898	7.56	-0.2	0.2	33.5	0.7	255	1
3705MH0007630031303007C00	3007	13922	7.39	-0.2	0.2	32.9	0.6	223	2
3705MH0007630031303008C00	3008	13946	7.21	-0.2	0.2	32.3	0.6	191	3
3705MH0007630031303009C00	3009	13970	7.05	-0.2	0.2	31.7	0.6	159	4
3705MH0007630031303010C00	3010	13994	6.88	-0.2	0.2	31.1	0.6	127	5
3705MH0007630031303011C00	3011	14018	6.73	-0.2	0.2	30.6	0.6	95	6
3705MH0007630031303012C00	3012	14042	6.58	-0.2	0.2	30.0	0.5	63	7
3705MH0007630031303013C00	3013	14066	6.43	-0.2	0.1	29.5	0.5	31	8

UPDATED: 15_September_2023

SOL 3705 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



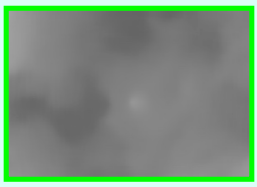

target Waimiri – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3705MH0007630011303015C00			
BEST FOCUS IMAGE:	3706MH0002270001303064R00	3064	MOTOR COUNT:	13991	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3706MH0002270001303065S00	3065	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	8-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3705	FOCUS MERGED ON SOL:	3706		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3705MH0007630031303017C00	3017	13895	7.59	-0.2	0.2	33.6	0.7	255	1
3705MH0007630031303018C00	3018	13919	7.41	-0.2	0.2	33.0	0.6	223	2
3705MH0007630031303019C00	3019	13943	7.23	-0.2	0.2	32.4	0.6	191	3
3705MH0007630031303020C00	3020	13967	7.07	-0.2	0.2	31.8	0.6	159	4
3705MH0007630031303021C00	3021	13991	6.90	-0.2	0.2	31.2	0.6	127	5
3705MH0007630031303022C00	3022	14015	6.75	-0.2	0.2	30.6	0.6	95	6
3705MH0007630031303023C00	3023	14039	6.59	-0.2	0.2	30.1	0.5	63	7
3705MH0007630031303024C00	3024	14063	6.45	-0.2	0.1	29.6	0.5	31	8

UPDATED: 15_September_2023

SOL 3705 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

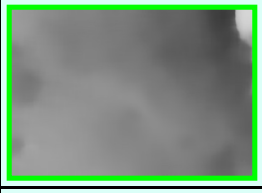
target Waimiri – after DRT – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3705MH0007460011303026C00			
BEST FOCUS IMAGE:	3706MH0002270001303062R00	3062	MOTOR COUNT:	14658	RANGE (cm):	3.9	
RANGE MAP PRODUCT:	3706MH0002270001303063S00	3063	ACQUIRED SEQUENCE:	mhli00746	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	8-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3705	FOCUS MERGED ON SOL:	3706		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3705MH0007460031303028C00	3028	14466	4.55	-0.1	0.1	22.9	0.3	255	1
3705MH0007460031303029C00	3029	14514	4.37	-0.1	0.1	22.3	0.3	223	2
3705MH0007460031303030C00	3030	14562	4.21	-0.1	0.1	21.7	0.3	191	3
3705MH0007460031303031C00	3031	14610	4.05	-0.1	0.1	21.2	0.3	159	4
3705MH0007460031303032C00	3032	14658	3.91	-0.1	0.1	20.7	0.3	127	5
3705MH0007460031303033C00	3033	14706	3.77	-0.1	0.1	20.2	0.3	95	6
3705MH0007460031303034C00	3034	14754	3.63	-0.1	0.1	19.7	0.3	63	7
3705MH0007460031303035C00	3035	14802	3.51	-0.1	0.1	19.2	0.3	31	8

UPDATED: 15_September_2023

SOL 3705 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Caroebe – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3705MH0001730011303039C00			
BEST FOCUS IMAGE:	3706MH0002270001303060R00	3060	MOTOR COUNT:	13972	RANGE (cm):	7.0	
RANGE MAP PRODUCT:	3706MH0002270001303061S00	3061	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	8-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3705	FOCUS MERGED ON SOL:	3706		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3705MH0001730021303040C00	3040	13852	7.93	-0.2	0.2	34.8	0.7	255	1
3705MH0001730021303041C00	3041	13882	7.69	-0.2	0.2	34.0	0.7	223	2
3705MH0001730021303042C00	3042	13912	7.46	-0.2	0.2	33.2	0.7	191	3
3705MH0001730021303043C00	3043	13942	7.24	-0.2	0.2	32.4	0.6	159	4
3705MH0001730021303044C00	3044	13972	7.03	-0.2	0.2	31.7	0.6	127	5
3705MH0001730021303045C00	3045	14002	6.83	-0.2	0.2	30.9	0.6	95	6
3705MH0001730021303046C00	3046	14032	6.64	-0.2	0.2	30.3	0.6	63	7
3705MH0001730021303047C00	3047	14062	6.45	-0.2	0.1	29.6	0.5	31	8

UPDATED: 15_September_2023

SOL 3705 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Caroebe – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3705MH0001730011303049C00			
BEST FOCUS IMAGE:	3706MH0002270001303058R00	3058	MOTOR COUNT:	13981	RANGE (cm):	7.0	
RANGE MAP PRODUCT:	3706MH0002270001303059S00	3059	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	8-Jan-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3705	FOCUS MERGED ON SOL:	3706		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3705MH0001730021303050C00	3050	13861	7.85	-0.2	0.2	34.5	0.7	255	1
3705MH0001730021303051C00	3051	13891	7.62	-0.2	0.2	33.7	0.7	223	2
3705MH0001730021303052C00	3052	13921	7.39	-0.2	0.2	32.9	0.6	191	3
3705MH0001730021303053C00	3053	13951	7.18	-0.2	0.2	32.2	0.6	159	4
3705MH0001730021303054C00	3054	13981	6.97	-0.2	0.2	31.4	0.6	127	5
3705MH0001730021303055C00	3055	14011	6.77	-0.2	0.2	30.7	0.6	95	6
3705MH0001730021303056C00	3056	14041	6.58	-0.2	0.2	30.1	0.5	63	7
3705MH0001730021303057C00	3057	14071	6.40	-0.2	0.1	29.4	0.5	31	8

UPDATED: 15_September_2023

SOL 3708 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Jenipapo – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3708MH0007630011303072C00			
BEST FOCUS IMAGE:	3708MH0001930001303108R00	3108	MOTOR COUNT:	14000	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3708MH0001930001303109S00	3109	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3708	FOCUS MERGED ON SOL:	3708		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3708MH0007630031303074C00	3074	13904	7.52	-0.2	0.2	33.4	0.7	255	1
3708MH0007630031303075C00	3075	13928	7.34	-0.2	0.2	32.7	0.6	223	2
3708MH0007630031303076C00	3076	13952	7.17	-0.2	0.2	32.1	0.6	191	3
3708MH0007630031303077C00	3077	13976	7.00	-0.2	0.2	31.6	0.6	159	4
3708MH0007630031303078C00	3078	14000	6.84	-0.2	0.2	31.0	0.6	127	5
3708MH0007630031303079C00	3079	14024	6.69	-0.2	0.2	30.4	0.6	95	6
3708MH0007630031303080C00	3080	14048	6.54	-0.2	0.1	29.9	0.5	63	7
3708MH0007630031303081C00	3081	14072	6.39	-0.2	0.1	29.4	0.5	31	8

UPDATED: 15_September_2023

SOL 3708 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Jenipapo – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3708MH0007630011303083C00			
BEST FOCUS IMAGE:	3708MH0001930001303106R00	3106	MOTOR COUNT:	13999	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3708MH0001930001303107S00	3107	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3708	FOCUS MERGED ON SOL:	3708		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3708MH0007630031303085C00	3085	13903	7.53	-0.2	0.2	33.4	0.7	255	1
3708MH0007630031303086C00	3086	13927	7.35	-0.2	0.2	32.8	0.6	223	2
3708MH0007630031303087C00	3087	13951	7.18	-0.2	0.2	32.2	0.6	191	3
3708MH0007630031303088C00	3088	13975	7.01	-0.2	0.2	31.6	0.6	159	4
3708MH0007630031303089C00	3089	13999	6.85	-0.2	0.2	31.0	0.6	127	5
3708MH0007630031303090C00	3090	14023	6.70	-0.2	0.2	30.5	0.6	95	6
3708MH0007630031303091C00	3091	14047	6.55	-0.2	0.1	29.9	0.5	63	7
3708MH0007630031303092C00	3092	14071	6.40	-0.2	0.1	29.4	0.5	31	8

UPDATED: 15_September_2023

SOL 3708 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Jenipapo – after DRT – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3708MH0007940011303094C00			
BEST FOCUS IMAGE:	3708MH0001930001303104R00	3104	MOTOR COUNT:	15090	RANGE (cm):	2.9	
RANGE MAP PRODUCT:	3708MH0001930001303105S00	3105	ACQUIRED SEQUENCE:	mhli00794	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3708	FOCUS MERGED ON SOL:	3708		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3708MH0007940031303096C00	3096	14898	3.27	-0.1	0.1	18.4	0.2	255	1
3708MH0007940031303097C00	3097	14946	3.16	-0.1	0.1	18.0	0.2	223	2
3708MH0007940031303098C00	3098	14994	3.05	-0.1	0.1	17.6	0.2	191	3
3708MH0007940031303099C00	3099	15042	2.95	-0.1	0.1	17.3	0.2	159	4
3708MH0007940031303100C00	3100	15090	2.85	-0.1	0.1	16.9	0.2	127	5
3708MH0007940031303101C00	3101	15138	2.76	-0.1	0.1	16.6	0.2	95	6
3708MH0007940031303102C00	3102	15186	2.67	-0.1	0.1	16.3	0.2	63	7
3708MH0007940031303103C00	3103	15234	2.59	-0.1	0.1	16.0	0.2	31	8

UPDATED: 15_September_2023

SOL 3712 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Curupira – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3712MH0008340011303118C00			
BEST FOCUS IMAGE:	3714MH0001630001303202R00	3202	MOTOR COUNT:	13998	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3714MH0001630001303203S00	3203	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	15-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3712	FOCUS MERGED ON SOL:	3714		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3712MH0008340031303120C00	3120	13926	7.36	-0.2	0.2	32.8	0.6	255	1
3712MH0008340031303121C00	3121	13944	7.23	-0.2	0.2	32.3	0.6	223	2
3712MH0008340031303122C00	3122	13962	7.10	-0.2	0.2	31.9	0.6	191	3
3712MH0008340031303123C00	3123	13980	6.98	-0.2	0.2	31.5	0.6	159	4
3712MH0008340031303124C00	3124	13998	6.86	-0.2	0.2	31.0	0.6	127	5
3712MH0008340031303125C00	3125	14016	6.74	-0.2	0.2	30.6	0.6	95	6
3712MH0008340031303126C00	3126	14034	6.63	-0.2	0.2	30.2	0.6	63	7
3712MH0008340031303127C00	3127	14052	6.51	-0.2	0.1	29.8	0.5	31	8

UPDATED: 15_September_2023

SOL 3712 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Curupira – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3712MH0008340011303129C00			
BEST FOCUS IMAGE:	3714MH0001630001303200R00	3200	MOTOR COUNT:	14002	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3714MH0001630001303201S00	3201	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	15-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3712	FOCUS MERGED ON SOL:	3714		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3712MH0008340031303131C00	3131	13930	7.33	-0.2	0.2	32.7	0.6	255	1
3712MH0008340031303132C00	3132	13948	7.20	-0.2	0.2	32.2	0.6	223	2
3712MH0008340031303133C00	3133	13966	7.07	-0.2	0.2	31.8	0.6	191	3
3712MH0008340031303134C00	3134	13984	6.95	-0.2	0.2	31.4	0.6	159	4
3712MH0008340031303135C00	3135	14002	6.83	-0.2	0.2	30.9	0.6	127	5
3712MH0008340031303136C00	3136	14020	6.71	-0.2	0.2	30.5	0.6	95	6
3712MH0008340031303137C00	3137	14038	6.60	-0.2	0.2	30.1	0.5	63	7
3712MH0008340031303138C00	3138	14056	6.49	-0.2	0.1	29.7	0.5	31	8

UPDATED: 15_September_2023

SOL 3712 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



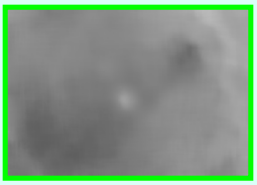

target Curupira – after DRT – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3712MH0008130011303140C00				
BEST FOCUS IMAGE:	3714MH0001630001303198R00	3198	MOTOR COUNT:	14704	RANGE (cm):	3.8		
RANGE MAP PRODUCT:	3714MH0001630001303199S00	3199	ACQUIRED SEQUENCE:	mhli00813	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	15-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3712	FOCUS MERGED ON SOL:	3714			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3712MH0008130031303142C00	3142	14584	4.14	-0.1	0.1	21.5	0.3	255	1
3712MH0008130031303143C00	3143	14614	4.04	-0.1	0.1	21.1	0.3	223	2
3712MH0008130031303144C00	3144	14644	3.95	-0.1	0.1	20.8	0.3	191	3
3712MH0008130031303145C00	3145	14674	3.86	-0.1	0.1	20.5	0.3	159	4
3712MH0008130031303146C00	3146	14704	3.77	-0.1	0.1	20.2	0.3	127	5
3712MH0008130031303147C00	3147	14734	3.69	-0.1	0.1	19.9	0.3	95	6
3712MH0008130031303148C00	3148	14764	3.61	-0.1	0.1	19.6	0.3	63	7
3712MH0008130031303149C00	3149	14794	3.53	-0.1	0.1	19.3	0.3	31	8

UPDATED: 15_September_2023

SOL 3712 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Paredao – after DRT – stereo-1 – relief model position 1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3712MH0008340011303154C00				
BEST FOCUS IMAGE:	3714MH0001630001303196R00	3196	MOTOR COUNT:	14018	RANGE (cm):	6.7		
RANGE MAP PRODUCT:	3714MH0001630001303197S00	3197	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	15-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3712	FOCUS MERGED ON SOL:	3714			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3712MH0008340031303156C00	3156	13946	7.21	-0.2	0.2	32.3	0.6	255	1
3712MH0008340031303157C00	3157	13964	7.09	-0.2	0.2	31.8	0.6	223	2
3712MH0008340031303158C00	3158	13982	6.96	-0.2	0.2	31.4	0.6	191	3
3712MH0008340031303159C00	3159	14000	6.84	-0.2	0.2	31.0	0.6	159	4
3712MH0008340031303160C00	3160	14018	6.73	-0.2	0.2	30.6	0.6	127	5
3712MH0008340031303161C00	3161	14036	6.61	-0.2	0.2	30.2	0.5	95	6
3712MH0008340031303162C00	3162	14054	6.50	-0.2	0.1	29.8	0.5	63	7
3712MH0008340031303163C00	3163	14072	6.39	-0.2	0.1	29.4	0.5	31	8

UPDATED: 15_September_2023

SOL 3712 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



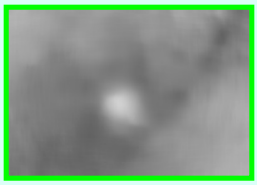

target Paredao – after DRT – stereo-2 – relief model position 2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3712MH0008340011303165C00			
BEST FOCUS IMAGE:	3714MH0001630001303194R00	3194	MOTOR COUNT:	14016	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3714MH0001630001303195S00	3195	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	15-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3712	FOCUS MERGED ON SOL:	3714		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3712MH0008340031303167C00	3167	13944	7.23	-0.2	0.2	32.3	0.6	255	1
3712MH0008340031303168C00	3168	13962	7.10	-0.2	0.2	31.9	0.6	223	2
3712MH0008340031303169C00	3169	13980	6.98	-0.2	0.2	31.5	0.6	191	3
3712MH0008340031303170C00	3170	13998	6.86	-0.2	0.2	31.0	0.6	159	4
3712MH0008340031303171C00	3171	14016	6.74	-0.2	0.2	30.6	0.6	127	5
3712MH0008340031303172C00	3172	14034	6.63	-0.2	0.2	30.2	0.6	95	6
3712MH0008340031303173C00	3173	14052	6.51	-0.2	0.1	29.8	0.5	63	7
3712MH0008340031303174C00	3174	14070	6.41	-0.2	0.1	29.4	0.5	31	8

UPDATED: 15_September_2023

SOL 3712 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Paredao – after DRT – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3712MH0008350011303182C00			
BEST FOCUS IMAGE:	3714MH0001630001303192R00	3192	MOTOR COUNT:	15170	RANGE (cm):	2.7	
RANGE MAP PRODUCT:	3714MH0001630001303193S00	3193	ACQUIRED SEQUENCE:	mhli00835	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	15-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3712	FOCUS MERGED ON SOL:	3714		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3712MH0008350031303184C00	3184	15050	2.93	-0.1	0.1	17.2	0.2	255	1
3712MH0008350031303185C00	3185	15080	2.87	-0.1	0.1	17.0	0.2	223	2
3712MH0008350031303186C00	3186	15110	2.81	-0.1	0.1	16.8	0.2	191	3
3712MH0008350031303187C00	3187	15140	2.76	-0.1	0.1	16.6	0.2	159	4
3712MH0008350031303188C00	3188	15170	2.70	-0.1	0.1	16.4	0.2	127	5
3712MH0008350031303189C00	3189	15200	2.65	-0.1	0.1	16.2	0.2	95	6
3712MH0008350031303190C00	3190	15230	2.59	-0.1	0.1	16.0	0.2	63	7
3712MH0008350031303191C00	3191	15260	2.54	-0.1	0.1	15.9	0.2	31	8

UPDATED: 15_September_2023

SOL 3715 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



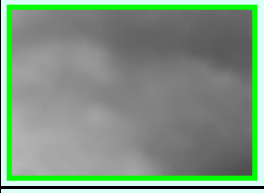

target Tarra – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3715MH0007630011303208C00			
BEST FOCUS IMAGE:	3715MH0001930001303244R00	3244	MOTOR COUNT:	14008	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3715MH0001930001303245S00	3245	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	18-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3715	FOCUS MERGED ON SOL:	3715		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3715MH0007630031303210C00	3210	13912	7.46	-0.2	0.2	33.2	0.7	255	1
3715MH0007630031303211C00	3211	13936	7.28	-0.2	0.2	32.5	0.6	223	2
3715MH0007630031303212C00	3212	13960	7.11	-0.2	0.2	31.9	0.6	191	3
3715MH0007630031303213C00	3213	13984	6.95	-0.2	0.2	31.4	0.6	159	4
3715MH0007630031303214C00	3214	14008	6.79	-0.2	0.2	30.8	0.6	127	5
3715MH0007630031303215C00	3215	14032	6.64	-0.2	0.2	30.3	0.6	95	6
3715MH0007630031303216C00	3216	14056	6.49	-0.2	0.1	29.7	0.5	63	7
3715MH0007630031303217C00	3217	14080	6.35	-0.2	0.1	29.2	0.5	31	8

UPDATED: 15_September_2023

SOL 3715 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

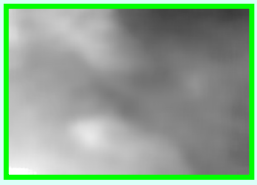
target Tarra – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3715MH0007630011303219C00			
BEST FOCUS IMAGE:	3715MH0001930001303242R00	3242	MOTOR COUNT:	14023	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3715MH0001930001303243S00	3243	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	18-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3715	FOCUS MERGED ON SOL:	3715		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3715MH0007630031303221C00	3221	13927	7.35	-0.2	0.2	32.8	0.6	255	1
3715MH0007630031303222C00	3222	13951	7.18	-0.2	0.2	32.2	0.6	223	2
3715MH0007630031303223C00	3223	13975	7.01	-0.2	0.2	31.6	0.6	191	3
3715MH0007630031303224C00	3224	13999	6.85	-0.2	0.2	31.0	0.6	159	4
3715MH0007630031303225C00	3225	14023	6.70	-0.2	0.2	30.5	0.6	127	5
3715MH0007630031303226C00	3226	14047	6.55	-0.2	0.1	29.9	0.5	95	6
3715MH0007630031303227C00	3227	14071	6.40	-0.2	0.1	29.4	0.5	63	7
3715MH0007630031303228C00	3228	14095	6.26	-0.1	0.1	28.9	0.5	31	8

UPDATED: 15_September_2023

SOL 3715 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

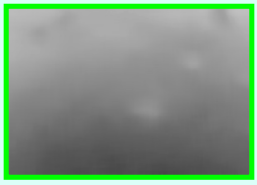
target Tarra – after DRT – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3715MH0008350011303230C00			
BEST FOCUS IMAGE:	3715MH0001930001303240R00	3240	MOTOR COUNT:	15163	RANGE (cm):	2.7	
RANGE MAP PRODUCT:	3715MH0001930001303241S00	3241	ACQUIRED SEQUENCE:	mhli00835	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	18-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3715	FOCUS MERGED ON SOL:	3715		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3715MH0008350031303232C00	3232	15043	2.95	-0.1	0.1	17.3	0.2	255	1
3715MH0008350031303233C00	3233	15073	2.89	-0.1	0.1	17.1	0.2	223	2
3715MH0008350031303234C00	3234	15103	2.83	-0.1	0.1	16.9	0.2	191	3
3715MH0008350031303235C00	3235	15133	2.77	-0.1	0.1	16.7	0.2	159	4
3715MH0008350031303236C00	3236	15163	2.71	-0.1	0.1	16.5	0.2	127	5
3715MH0008350031303237C00	3237	15193	2.66	-0.1	0.1	16.3	0.2	95	6
3715MH0008350031303238C00	3238	15223	2.61	-0.1	0.1	16.1	0.2	63	7
3715MH0008350031303239C00	3239	15253	2.55	-0.1	0.1	15.9	0.2	31	8

UPDATED: 15_September_2023

SOL 3716 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

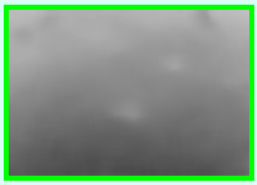
target Encanto – after DRT – APXS spot 2 – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3716MH0007630011303254C00			
BEST FOCUS IMAGE:	3716MH0001530001303305R00	3305	MOTOR COUNT:	13985	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3716MH0001530001303306S00	3306	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Jan-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3716	FOCUS MERGED ON SOL:	3716		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3716MH0007630031303256C00	3256	13889	7.63	-0.2	0.2	33.8	0.7	255	1
3716MH0007630031303257C00	3257	13913	7.45	-0.2	0.2	33.1	0.7	223	2
3716MH0007630031303258C00	3258	13937	7.28	-0.2	0.2	32.5	0.6	191	3
3716MH0007630031303259C00	3259	13961	7.11	-0.2	0.2	31.9	0.6	159	4
3716MH0007630031303260C00	3260	13985	6.94	-0.2	0.2	31.3	0.6	127	5
3716MH0007630031303261C00	3261	14009	6.79	-0.2	0.2	30.8	0.6	95	6
3716MH0007630031303262C00	3262	14033	6.63	-0.2	0.2	30.2	0.6	63	7
3716MH0007630031303263C00	3263	14057	6.48	-0.2	0.1	29.7	0.5	31	8

UPDATED: 15_September_2023

SOL 3716 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

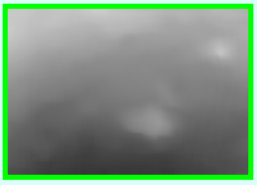
target Encanto – after DRT – APXS spot 2 – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3716MH0007630011303265C00			
BEST FOCUS IMAGE:	3716MH0001530001303303R00	3303	MOTOR COUNT:	13986	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3716MH0001530001303304S00	3304	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Jan-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3716	FOCUS MERGED ON SOL:	3716		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3716MH0007630031303267C00	3267	13890	7.63	-0.2	0.2	33.7	0.7	255	1
3716MH0007630031303268C00	3268	13914	7.44	-0.2	0.2	33.1	0.7	223	2
3716MH0007630031303269C00	3269	13938	7.27	-0.2	0.2	32.5	0.6	191	3
3716MH0007630031303270C00	3270	13962	7.10	-0.2	0.2	31.9	0.6	159	4
3716MH0007630031303271C00	3271	13986	6.94	-0.2	0.2	31.3	0.6	127	5
3716MH0007630031303272C00	3272	14010	6.78	-0.2	0.2	30.8	0.6	95	6
3716MH0007630031303273C00	3273	14034	6.63	-0.2	0.2	30.2	0.6	63	7
3716MH0007630031303274C00	3274	14058	6.48	-0.2	0.1	29.7	0.5	31	8

UPDATED: 15_September_2023

SOL 3716 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Encanto – after DRT – APXS spot 2 – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3716MH0008130011303276C00			
BEST FOCUS IMAGE:	3716MH0001530001303301R00	3301	MOTOR COUNT:	14645	RANGE (cm):	3.9	
RANGE MAP PRODUCT:	3716MH0001530001303302S00	3302	ACQUIRED SEQUENCE:	mhli00813	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Jan-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3716	FOCUS MERGED ON SOL:	3716		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3716MH0008130031303278C00	3278	14525	4.34	-0.1	0.1	22.2	0.3	255	1
3716MH0008130031303279C00	3279	14555	4.23	-0.1	0.1	21.8	0.3	223	2
3716MH0008130031303280C00	3280	14585	4.13	-0.1	0.1	21.5	0.3	191	3
3716MH0008130031303281C00	3281	14615	4.04	-0.1	0.1	21.1	0.3	159	4
3716MH0008130031303282C00	3282	14645	3.95	-0.1	0.1	20.8	0.3	127	5
3716MH0008130031303283C00	3283	14675	3.86	-0.1	0.1	20.5	0.3	95	6
3716MH0008130031303284C00	3284	14705	3.77	-0.1	0.1	20.2	0.3	63	7
3716MH0008130031303285C00	3285	14735	3.69	-0.1	0.1	19.9	0.3	31	8

UPDATED: 15_September_2023

SOL 3716 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



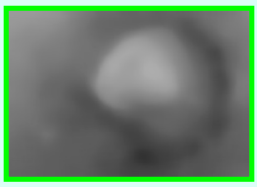

target Encanto – after DRT – APXS spot 1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3716MH0007630011303287C00			
BEST FOCUS IMAGE:	3716MH0001530001303299R00	3299	MOTOR COUNT:	14000	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3716MH0001530001303300S00	3300	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Jan-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3716	FOCUS MERGED ON SOL:	3716		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3716MH0007630031303289C00	3289	13904	7.52	-0.2	0.2	33.4	0.7	255	1
3716MH0007630031303290C00	3290	13928	7.34	-0.2	0.2	32.7	0.6	223	2
3716MH0007630031303291C00	3291	13952	7.17	-0.2	0.2	32.1	0.6	191	3
3716MH0007630031303292C00	3292	13976	7.00	-0.2	0.2	31.6	0.6	159	4
3716MH0007630031303293C00	3293	14000	6.84	-0.2	0.2	31.0	0.6	127	5
3716MH0007630031303294C00	3294	14024	6.69	-0.2	0.2	30.4	0.6	95	6
3716MH0007630031303295C00	3295	14048	6.54	-0.2	0.1	29.9	0.5	63	7
3716MH0007630031303296C00	3296	14072	6.39	-0.2	0.1	29.4	0.5	31	8

UPDATED: 15_September_2023

SOL 3721 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

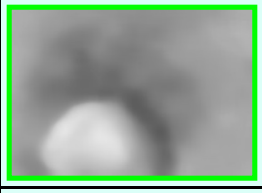
Encanto attempted (sol 3718) drill hole – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3721MH0002240011303316C00			
BEST FOCUS IMAGE:	3721MH0001930001303349R00	3349	MOTOR COUNT:	13987	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3721MH0001930001303350S00	3350	ACQUIRED SEQUENCE:	mhli00224	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	24-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3721	FOCUS MERGED ON SOL:	3721		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3721MH0002240021303317C00	3317	13819	8.20	-0.2	0.2	35.8	0.7	255	1
3721MH0002240021303318C00	3318	13861	7.85	-0.2	0.2	34.5	0.7	223	2
3721MH0002240021303319C00	3319	13903	7.53	-0.2	0.2	33.4	0.7	191	3
3721MH0002240021303320C00	3320	13945	7.22	-0.2	0.2	32.3	0.6	159	4
3721MH0002240021303321C00	3321	13987	6.93	-0.2	0.2	31.3	0.6	127	5
3721MH0002240021303322C00	3322	14029	6.66	-0.2	0.2	30.3	0.6	95	6
3721MH0002240021303323C00	3323	14071	6.40	-0.2	0.1	29.4	0.5	63	7
3721MH0002240021303324C00	3324	14113	6.16	-0.1	0.1	28.6	0.5	31	8

UPDATED: 15_September_2023

SOL 3721 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

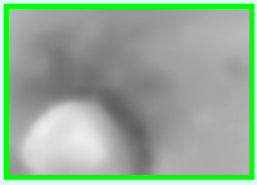
Encanto drill cuttings – after sol 3718 drill attempt – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3721MH0001730011303326C00			
BEST FOCUS IMAGE:	3721MH0001930001303347R00	3347	MOTOR COUNT:	14015	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3721MH0001930001303348S00	3348	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	24-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3721	FOCUS MERGED ON SOL:	3721		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3721MH0001730021303327C00	3327	13895	7.59	-0.2	0.2	33.6	0.7	255	1
3721MH0001730021303328C00	3328	13925	7.36	-0.2	0.2	32.8	0.6	223	2
3721MH0001730021303329C00	3329	13955	7.15	-0.2	0.2	32.1	0.6	191	3
3721MH0001730021303330C00	3330	13985	6.94	-0.2	0.2	31.3	0.6	159	4
3721MH0001730021303331C00	3331	14015	6.75	-0.2	0.2	30.6	0.6	127	5
3721MH0001730021303332C00	3332	14045	6.56	-0.2	0.1	30.0	0.5	95	6
3721MH0001730021303333C00	3333	14075	6.38	-0.2	0.1	29.3	0.5	63	7
3721MH0001730021303334C00	3334	14105	6.20	-0.1	0.1	28.7	0.5	31	8

UPDATED: 15_September_2023

SOL 3721 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

Encanto drill cuttings – after sol 3718 drill attempt – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3721MH0001730011303336C00			
BEST FOCUS IMAGE:	3721MH0001930001303345R00	3345	MOTOR COUNT:	14022	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3721MH0001930001303346S00	3346	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	24-Jan-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3721	FOCUS MERGED ON SOL:	3721		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3721MH0001730021303337C00	3337	13902	7.53	-0.2	0.2	33.4	0.7	255	1
3721MH0001730021303338C00	3338	13932	7.31	-0.2	0.2	32.6	0.6	223	2
3721MH0001730021303339C00	3339	13962	7.10	-0.2	0.2	31.9	0.6	191	3
3721MH0001730021303340C00	3340	13992	6.90	-0.2	0.2	31.2	0.6	159	4
3721MH0001730021303341C00	3341	14022	6.70	-0.2	0.2	30.5	0.6	127	5
3721MH0001730021303342C00	3342	14052	6.51	-0.2	0.1	29.8	0.5	95	6
3721MH0001730021303343C00	3343	14082	6.33	-0.2	0.1	29.2	0.5	63	7
3721MH0001730021303344C00	3344	14112	6.16	-0.1	0.1	28.6	0.5	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



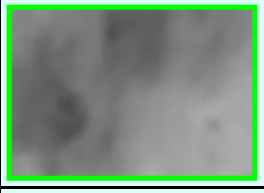

target El_Descanso – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3723MH0001680011303354C00			
BEST FOCUS IMAGE:	3724MH0005360001303459R00	3459	MOTOR COUNT:	14009	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3724MH0005360001303460S00	3460	ACQUIRED SEQUENCE:	mhli00168	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0001680021303355C00	3355	13937	7.28	-0.2	0.2	32.5	0.6	255	1
3723MH0001680021303356C00	3356	13955	7.15	-0.2	0.2	32.1	0.6	223	2
3723MH0001680021303357C00	3357	13973	7.02	-0.2	0.2	31.6	0.6	191	3
3723MH0001680021303358C00	3358	13991	6.90	-0.2	0.2	31.2	0.6	159	4
3723MH0001680021303359C00	3359	14009	6.79	-0.2	0.2	30.8	0.6	127	5
3723MH0001680021303360C00	3360	14027	6.67	-0.2	0.2	30.4	0.6	95	6
3723MH0001680021303361C00	3361	14045	6.56	-0.2	0.1	30.0	0.5	63	7
3723MH0001680021303362C00	3362	14063	6.45	-0.2	0.1	29.6	0.5	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

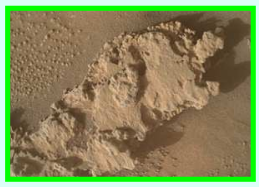
target El_Descanso – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3723MH0001680011303364C00			
BEST FOCUS IMAGE:	3724MH0005360001303457R00	3457	MOTOR COUNT:	14010	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3724MH0005360001303458S00	3458	ACQUIRED SEQUENCE:	mhli00168	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0001680021303365C00	3365	13938	7.27	-0.2	0.2	32.5	0.6	255	1
3723MH0001680021303366C00	3366	13956	7.14	-0.2	0.2	32.0	0.6	223	2
3723MH0001680021303367C00	3367	13974	7.02	-0.2	0.2	31.6	0.6	191	3
3723MH0001680021303368C00	3368	13992	6.90	-0.2	0.2	31.2	0.6	159	4
3723MH0001680021303369C00	3369	14010	6.78	-0.2	0.2	30.8	0.6	127	5
3723MH0001680021303370C00	3370	14028	6.66	-0.2	0.2	30.4	0.6	95	6
3723MH0001680021303371C00	3371	14046	6.55	-0.2	0.1	30.0	0.5	63	7
3723MH0001680021303372C00	3372	14064	6.44	-0.2	0.1	29.6	0.5	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



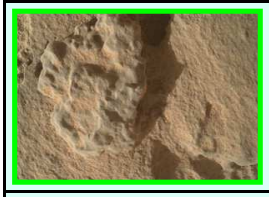
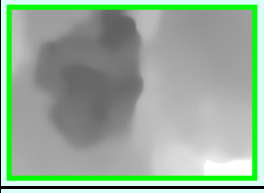

target Peters_Mine – ~24 cm standoff

		CDPID	CORRESPONDING FRAME:	3723MH0003590011303374C00				
BEST FOCUS IMAGE:	3724MH0005360001303455R00	3455	MOTOR COUNT:	13031	RANGE (cm):	25.7		
RANGE MAP PRODUCT:	3724MH0005360001303456S00	3456	ACQUIRED SEQUENCE:	mhli00359	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0003590021303375C00	3375	12959	30.54	-2.3	2.7	114.4	8.8	255	1
3723MH0003590021303376C00	3376	12977	29.18	-2.1	2.4	109.6	8.0	223	2
3723MH0003590021303377C00	3377	12995	27.92	-2.0	2.2	105.2	7.4	191	3
3723MH0003590021303378C00	3378	13013	26.77	-1.8	2.0	101.1	6.8	159	4
3723MH0003590021303379C00	3379	13031	25.70	-1.7	1.9	97.3	6.2	127	5
3723MH0003590021303380C00	3380	13049	24.70	-1.6	1.7	93.8	5.8	95	6
3723MH0003590021303381C00	3381	13067	23.77	-1.4	1.6	90.6	5.3	63	7
3723MH0003590021303382C00	3382	13085	22.90	-1.3	1.5	87.5	5.0	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

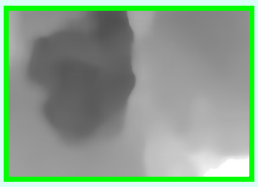
target Peters_Mine – stereo-1 – ~35 mm standoff

		CDPID	CORRESPONDING FRAME:	3723MH0003060011303384C00				
BEST FOCUS IMAGE:	3724MH0005360001303453R00	3453	MOTOR COUNT:	14230	RANGE (cm):	5.5		
RANGE MAP PRODUCT:	3724MH0005360001303454S00	3454	ACQUIRED SEQUENCE:	mhli00306	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0003060021303385C00	3385	14014	6.75	-0.2	0.2	30.7	0.6	255	1
3723MH0003060021303386C00	3386	14068	6.42	-0.2	0.1	29.5	0.5	223	2
3723MH0003060021303387C00	3387	14122	6.11	-0.1	0.1	28.4	0.5	191	3
3723MH0003060021303388C00	3388	14176	5.82	-0.1	0.1	27.4	0.4	159	4
3723MH0003060021303389C00	3389	14230	5.54	-0.1	0.1	26.4	0.4	127	5
3723MH0003060021303390C00	3390	14284	5.29	-0.1	0.1	25.5	0.4	95	6
3723MH0003060021303391C00	3391	14338	5.05	-0.1	0.1	24.7	0.4	63	7
3723MH0003060021303392C00	3392	14392	4.83	-0.1	0.1	23.9	0.4	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Peters_Mine – stereo-2 – ~35 mm standoff

		CDPID	CORRESPONDING FRAME:	3723MH0003060011303394C00			
BEST FOCUS IMAGE:	3724MH0005360001303451R00	3451	MOTOR COUNT:	14209	RANGE (cm):	5.6	
RANGE MAP PRODUCT:	3724MH0005360001303452S00	3452	ACQUIRED SEQUENCE:	mhli00306	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0003060021303395C00	3395	13993	6.89	-0.2	0.2	31.2	0.6	255	1
3723MH0003060021303396C00	3396	14047	6.55	-0.2	0.1	29.9	0.5	223	2
3723MH0003060021303397C00	3397	14101	6.22	-0.1	0.1	28.8	0.5	191	3
3723MH0003060021303398C00	3398	14155	5.93	-0.1	0.1	27.8	0.5	159	4
3723MH0003060021303399C00	3399	14209	5.65	-0.1	0.1	26.8	0.4	127	5
3723MH0003060021303400C00	3400	14263	5.39	-0.1	0.1	25.9	0.4	95	6
3723MH0003060021303401C00	3401	14317	5.14	-0.1	0.1	25.0	0.4	63	7
3723MH0003060021303402C00	3402	14371	4.91	-0.1	0.1	24.2	0.4	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Semang_Peak – mosaic position 1 of 4 – ~10 cm standoff

		CDPID	CORRESPONDING FRAME:	3723MH0008590011303404C00			
BEST FOCUS IMAGE:	3724MH0005360001303449R00	3449	MOTOR COUNT:	13499	RANGE (cm):	11.9	
RANGE MAP PRODUCT:	3724MH0005360001303450S00	3450	ACQUIRED SEQUENCE:	mhli00859	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0008590021303405C00	3405	13307	15.52	-0.7	0.7	61.5	2.3	255	1
3723MH0008590021303406C00	3406	13355	14.44	-0.6	0.6	57.7	2.0	223	2
3723MH0008590021303407C00	3407	13403	13.49	-0.5	0.5	54.4	1.8	191	3
3723MH0008590021303408C00	3408	13451	12.64	-0.5	0.4	51.4	1.6	159	4
3723MH0008590021303409C00	3409	13499	11.87	-0.4	0.4	48.7	1.4	127	5
3723MH0008590021303410C00	3410	13547	11.17	-0.4	0.4	46.2	1.3	95	6
3723MH0008590021303411C00	3411	13595	10.53	-0.3	0.3	44.0	1.1	63	7
3723MH0008590021303412C00	3412	13643	9.96	-0.3	0.3	41.9	1.0	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



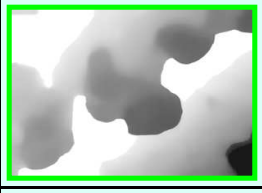

target Semang_Peak – mosaic position 2 of 4 – ~14 cm standoff

		CDPID	CORRESPONDING FRAME:	3723MH0008590011303414C00			
BEST FOCUS IMAGE:	3724MH0005360001303447R00	3447	MOTOR COUNT:	13309	RANGE (cm):	15.5	
RANGE MAP PRODUCT:	3724MH0005360001303448S00	3448	ACQUIRED SEQUENCE:	mhli00859	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0008590021303415C00	3415	13117	21.49	-1.2	1.3	82.5	4.4	255	1
3723MH0008590021303416C00	3416	13165	19.64	-1.0	1.1	76.0	3.6	223	2
3723MH0008590021303417C00	3417	13213	18.05	-0.9	0.9	70.4	3.1	191	3
3723MH0008590021303418C00	3418	13261	16.68	-0.7	0.8	65.6	2.7	159	4
3723MH0008590021303419C00	3419	13309	15.47	-0.6	0.7	61.4	2.3	127	5
3723MH0008590021303420C00	3420	13357	14.40	-0.6	0.6	57.6	2.0	95	6
3723MH0008590021303421C00	3421	13405	13.45	-0.5	0.5	54.3	1.8	63	7
3723MH0008590021303422C00	3422	13453	12.60	-0.5	0.4	51.3	1.6	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

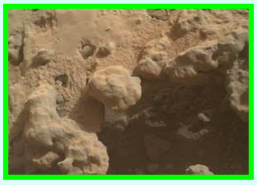
target Semang_Peak – mosaic position 3 of 4 – ~95 mm standoff

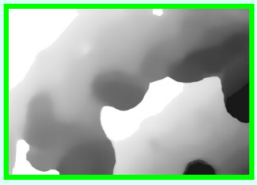
		CDPID	CORRESPONDING FRAME:	3723MH0008590011303424C00			
BEST FOCUS IMAGE:	3724MH0005360001303445R00	3445	MOTOR COUNT:	13540	RANGE (cm):	11.3	
RANGE MAP PRODUCT:	3724MH0005360001303446S00	3446	ACQUIRED SEQUENCE:	mhli00859	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0008590021303425C00	3425	13348	14.59	-0.6	0.6	58.3	2.1	255	1
3723MH0008590021303426C00	3426	13396	13.62	-0.5	0.5	54.9	1.8	223	2
3723MH0008590021303427C00	3427	13444	12.75	-0.5	0.5	51.8	1.6	191	3
3723MH0008590021303428C00	3428	13492	11.97	-0.4	0.4	49.0	1.4	159	4
3723MH0008590021303429C00	3429	13540	11.27	-0.4	0.4	46.6	1.3	127	5
3723MH0008590021303430C00	3430	13588	10.62	-0.3	0.3	44.3	1.1	95	6
3723MH0008590021303431C00	3431	13636	10.04	-0.3	0.3	42.2	1.0	63	7
3723MH0008590021303432C00	3432	13684	9.50	-0.3	0.3	40.3	0.9	31	8

UPDATED: 15_September_2023

SOL 3723 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





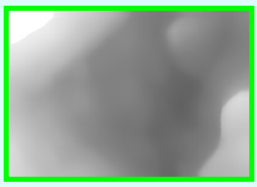
target Semang_Peak – mosaic position 4 of 4 – ~95 mm standoff

		CDPID	CORRESPONDING FRAME:	3723MH0008590011303434C00			
BEST FOCUS IMAGE:	3724MH0005360001303443R00	3443	MOTOR COUNT:	13531	RANGE (cm):	11.4	
RANGE MAP PRODUCT:	3724MH0005360001303444S00	3444	ACQUIRED SEQUENCE:	mhli00859	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	26-Jan-23		MERGE SEQUENCE:	mhli00536	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3723	FOCUS MERGED ON SOL:	3724		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3723MH0008590021303435C00	3435	13339	14.79	-0.6	0.6	59.0	2.1	255	1
3723MH0008590021303436C00	3436	13387	13.80	-0.5	0.5	55.5	1.9	223	2
3723MH0008590021303437C00	3437	13435	12.91	-0.5	0.5	52.3	1.6	191	3
3723MH0008590021303438C00	3438	13483	12.11	-0.4	0.4	49.5	1.5	159	4
3723MH0008590021303439C00	3439	13531	11.39	-0.4	0.4	47.0	1.3	127	5
3723MH0008590021303440C00	3440	13579	10.74	-0.3	0.3	44.7	1.2	95	6
3723MH0008590021303441C00	3441	13627	10.14	-0.3	0.3	42.6	1.1	63	7
3723MH0008590021303442C00	3442	13675	9.60	-0.3	0.3	40.7	1.0	31	8

UPDATED: 15_September_2023

SOL 3725 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

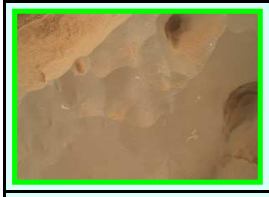
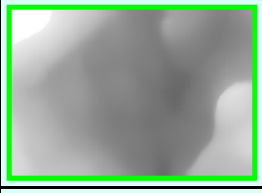
target Curare on boulder called Cacao – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3725MH0001520011303464C00			
BEST FOCUS IMAGE:	3727MH0001630001303535R00	3535	MOTOR COUNT:	13990	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3727MH0001630001303536S00	3536	ACQUIRED SEQUENCE:	mhli00152	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	28-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3725	FOCUS MERGED ON SOL:	3727		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3725MH0001520021303465C00	3465	13798	8.39	-0.2	0.2	36.4	0.8	255	1
3725MH0001520021303466C00	3466	13846	7.98	-0.2	0.2	35.0	0.7	223	2
3725MH0001520021303467C00	3467	13894	7.60	-0.2	0.2	33.6	0.7	191	3
3725MH0001520021303468C00	3468	13942	7.24	-0.2	0.2	32.4	0.6	159	4
3725MH0001520021303469C00	3469	13990	6.91	-0.2	0.2	31.2	0.6	127	5
3725MH0001520021303470C00	3470	14038	6.60	-0.2	0.2	30.1	0.5	95	6
3725MH0001520021303471C00	3471	14086	6.31	-0.1	0.1	29.1	0.5	63	7
3725MH0001520021303472C00	3472	14134	6.04	-0.1	0.1	28.2	0.5	31	8

UPDATED: 15_September_2023

SOL 3725 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

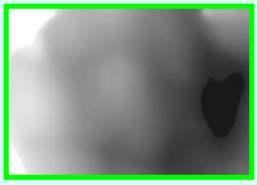
target Curare on boulder called Cacao – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3725MH0001520011303474C00			
BEST FOCUS IMAGE:	3727MH0001630001303533R00	3533	MOTOR COUNT:	14002	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3727MH0001630001303534S00	3534	ACQUIRED SEQUENCE:	mhli00152	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	28-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3725	FOCUS MERGED ON SOL:	3727		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3725MH0001520021303475C00	3475	13810	8.28	-0.2	0.2	36.1	0.8	255	1
3725MH0001520021303476C00	3476	13858	7.88	-0.2	0.2	34.6	0.7	223	2
3725MH0001520021303477C00	3477	13906	7.50	-0.2	0.2	33.3	0.7	191	3
3725MH0001520021303478C00	3478	13954	7.16	-0.2	0.2	32.1	0.6	159	4
3725MH0001520021303479C00	3479	14002	6.83	-0.2	0.2	30.9	0.6	127	5
3725MH0001520021303480C00	3480	14050	6.53	-0.2	0.1	29.9	0.5	95	6
3725MH0001520021303481C00	3481	14098	6.24	-0.1	0.1	28.9	0.5	63	7
3725MH0001520021303482C00	3482	14146	5.97	-0.1	0.1	27.9	0.5	31	8

UPDATED: 15_September_2023

SOL 3725 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

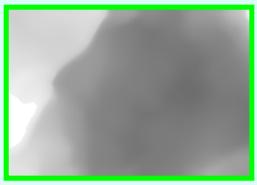
target Curare on boulder called Cacao – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3725MH0007960011303484C00			
BEST FOCUS IMAGE:	3727MH0001630001303531R00	3531	MOTOR COUNT:	15073	RANGE (cm):	2.9	
RANGE MAP PRODUCT:	3727MH0001630001303532S00	3532	ACQUIRED SEQUENCE:	mhli00796	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	28-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3725	FOCUS MERGED ON SOL:	3727		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3725MH0007960021303485C00	3485	14905	3.25	-0.1	0.1	18.3	0.2	255	1
3725MH0007960021303486C00	3486	14947	3.16	-0.1	0.1	18.0	0.2	223	2
3725MH0007960021303487C00	3487	14989	3.06	-0.1	0.1	17.7	0.2	191	3
3725MH0007960021303488C00	3488	15031	2.97	-0.1	0.1	17.4	0.2	159	4
3725MH0007960021303489C00	3489	15073	2.89	-0.1	0.1	17.1	0.2	127	5
3725MH0007960021303490C00	3490	15115	2.80	-0.1	0.1	16.8	0.2	95	6
3725MH0007960021303491C00	3491	15157	2.73	-0.1	0.1	16.5	0.2	63	7
3725MH0007960021303492C00	3492	15199	2.65	-0.1	0.1	16.2	0.2	31	8

UPDATED: 15_September_2023

SOL 3725 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Cururu on boulder called Cacao – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3725MH0003060011303496C00			
BEST FOCUS IMAGE:	3727MH0001630001303529R00	3529	MOTOR COUNT:	14019	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3727MH0001630001303530S00	3530	ACQUIRED SEQUENCE:	mhli00306	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	28-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3725	FOCUS MERGED ON SOL:	3727		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3725MH0003060021303497C00	3497	13803	8.34	-0.2	0.2	36.3	0.8	255	1
3725MH0003060021303498C00	3498	13857	7.89	-0.2	0.2	34.7	0.7	223	2
3725MH0003060021303499C00	3499	13911	7.47	-0.2	0.2	33.2	0.7	191	3
3725MH0003060021303500C00	3500	13965	7.08	-0.2	0.2	31.8	0.6	159	4
3725MH0003060021303501C00	3501	14019	6.72	-0.2	0.2	30.6	0.6	127	5
3725MH0003060021303502C00	3502	14073	6.39	-0.2	0.1	29.4	0.5	95	6
3725MH0003060021303503C00	3503	14127	6.08	-0.1	0.1	28.3	0.5	63	7
3725MH0003060021303504C00	3504	14181	5.79	-0.1	0.1	27.3	0.4	31	8

UPDATED: 15_September_2023

SOL 3725 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



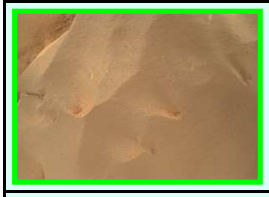
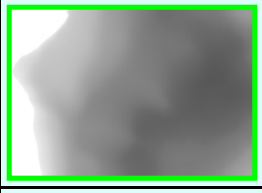

target Cururu on boulder called Cacao – stereo-2 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3725MH0003060011303506C00			
BEST FOCUS IMAGE:	3727MH0001630001303527R00	3527	MOTOR COUNT:	14033	RANGE (cm):	6.6	
RANGE MAP PRODUCT:	3727MH0001630001303528S00	3528	ACQUIRED SEQUENCE:	mhli00306	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	28-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3725	FOCUS MERGED ON SOL:	3727		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3725MH0003060021303507C00	3507	13817	8.22	-0.2	0.2	35.8	0.8	255	1
3725MH0003060021303508C00	3508	13871	7.77	-0.2	0.2	34.3	0.7	223	2
3725MH0003060021303509C00	3509	13925	7.36	-0.2	0.2	32.8	0.6	191	3
3725MH0003060021303510C00	3510	13979	6.98	-0.2	0.2	31.5	0.6	159	4
3725MH0003060021303511C00	3511	14033	6.63	-0.2	0.2	30.2	0.6	127	5
3725MH0003060021303512C00	3512	14087	6.31	-0.1	0.1	29.1	0.5	95	6
3725MH0003060021303513C00	3513	14141	6.00	-0.1	0.1	28.0	0.5	63	7
3725MH0003060021303514C00	3514	14195	5.72	-0.1	0.1	27.0	0.4	31	8

UPDATED: 15_September_2023

SOL 3725 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Cururu on boulder called Cacao – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3725MH0001760011303516C00			
BEST FOCUS IMAGE:	3727MH0001630001303525R00	3525	MOTOR COUNT:	14723	RANGE (cm):	3.7	
RANGE MAP PRODUCT:	3727MH0001630001303526S00	3526	ACQUIRED SEQUENCE:	mhli00176	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	28-Jan-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3725	FOCUS MERGED ON SOL:	3727		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3725MH0001760021303517C00	3517	14531	4.31	-0.1	0.1	22.1	0.3	255	1
3725MH0001760021303518C00	3518	14579	4.15	-0.1	0.1	21.5	0.3	223	2
3725MH0001760021303519C00	3519	14627	4.00	-0.1	0.1	21.0	0.3	191	3
3725MH0001760021303520C00	3520	14675	3.86	-0.1	0.1	20.5	0.3	159	4
3725MH0001760021303521C00	3521	14723	3.72	-0.1	0.1	20.0	0.3	127	5
3725MH0001760021303522C00	3522	14771	3.59	-0.1	0.1	19.5	0.3	95	6
3725MH0001760021303523C00	3523	14819	3.46	-0.1	0.1	19.1	0.3	63	7
3725MH0001760021303524C00	3524	14867	3.34	-0.1	0.1	18.7	0.2	31	8

UPDATED: 15_September_2023

SOL 3728 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



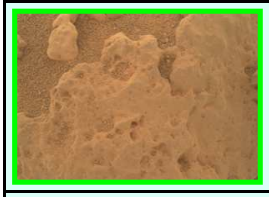
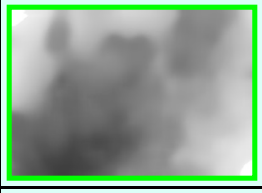

target Primavera – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3728MH0001730011303540C00			
BEST FOCUS IMAGE:	3728MH0002650001303561R00	3561	MOTOR COUNT:	14003	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3728MH0002650001303562S00	3562	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	31-Jan-23		MERGE SEQUENCE:	mhli00265	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3728	FOCUS MERGED ON SOL:	3728		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3728MH0001730021303541C00	3541	13883	7.68	-0.2	0.2	33.9	0.7	255	1
3728MH0001730021303542C00	3542	13913	7.45	-0.2	0.2	33.1	0.7	223	2
3728MH0001730021303543C00	3543	13943	7.23	-0.2	0.2	32.4	0.6	191	3
3728MH0001730021303544C00	3544	13973	7.02	-0.2	0.2	31.6	0.6	159	4
3728MH0001730021303545C00	3545	14003	6.82	-0.2	0.2	30.9	0.6	127	5
3728MH0001730021303546C00	3546	14033	6.63	-0.2	0.2	30.2	0.6	95	6
3728MH0001730021303547C00	3547	14063	6.45	-0.2	0.1	29.6	0.5	63	7
3728MH0001730021303548C00	3548	14093	6.27	-0.1	0.1	29.0	0.5	31	8

UPDATED: 15_September_2023

SOL 3728 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

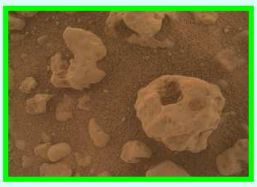
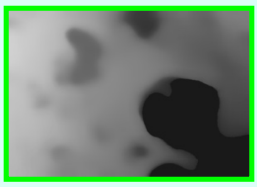
target Primavera – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3728MH0001730011303550C00			
BEST FOCUS IMAGE:	3728MH0002650001303559R00	3559	MOTOR COUNT:	14008	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3728MH0002650001303560S00	3560	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	31-Jan-23		MERGE SEQUENCE:	mhli00265	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3728	FOCUS MERGED ON SOL:	3728		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3728MH0001730021303551C00	3551	13888	7.64	-0.2	0.2	33.8	0.7	255	1
3728MH0001730021303552C00	3552	13918	7.42	-0.2	0.2	33.0	0.6	223	2
3728MH0001730021303553C00	3553	13948	7.20	-0.2	0.2	32.2	0.6	191	3
3728MH0001730021303554C00	3554	13978	6.99	-0.2	0.2	31.5	0.6	159	4
3728MH0001730021303555C00	3555	14008	6.79	-0.2	0.2	30.8	0.6	127	5
3728MH0001730021303556C00	3556	14038	6.60	-0.2	0.2	30.1	0.5	95	6
3728MH0001730021303557C00	3557	14068	6.42	-0.2	0.1	29.5	0.5	63	7
3728MH0001730021303558C00	3558	14098	6.24	-0.1	0.1	28.9	0.5	31	8

UPDATED: 15_September_2023

SOL 3730 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

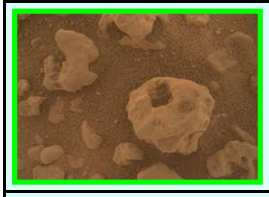
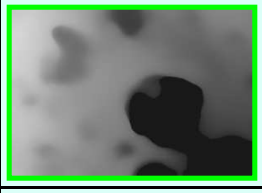
target Alasca – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3730MH0007210011303567C00			
BEST FOCUS IMAGE:	3730MH0008170001303619R00	3619	MOTOR COUNT:	14005	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3730MH0008170001303620S00	3620	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	2-Feb-23		MERGE SEQUENCE:	mhli00817	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3730	FOCUS MERGED ON SOL:	3730		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3730MH0007210031303569C00	3569	13837	8.05	-0.2	0.2	35.2	0.7	255	1
3730MH0007210031303570C00	3570	13879	7.71	-0.2	0.2	34.0	0.7	223	2
3730MH0007210031303571C00	3571	13921	7.39	-0.2	0.2	32.9	0.6	191	3
3730MH0007210031303572C00	3572	13963	7.09	-0.2	0.2	31.9	0.6	159	4
3730MH0007210031303573C00	3573	14005	6.81	-0.2	0.2	30.9	0.6	127	5
3730MH0007210031303574C00	3574	14047	6.55	-0.2	0.1	29.9	0.5	95	6
3730MH0007210031303575C00	3575	14089	6.29	-0.1	0.1	29.1	0.5	63	7
3730MH0007210031303576C00	3576	14131	6.06	-0.1	0.1	28.2	0.5	31	8

UPDATED: 15_September_2023

SOL 3730 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

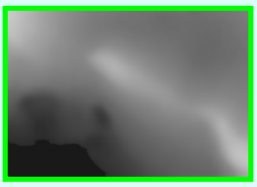
target Alasca – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3730MH0007210011303578C00			
BEST FOCUS IMAGE:	3730MH0008170001303617R00	3617	MOTOR COUNT:	14017	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3730MH0008170001303618S00	3618	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	2-Feb-23		MERGE SEQUENCE:	mhli00817	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3730	FOCUS MERGED ON SOL:	3730		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3730MH0007210031303580C00	3580	13849	7.95	-0.2	0.2	34.9	0.7	255	1
3730MH0007210031303581C00	3581	13891	7.62	-0.2	0.2	33.7	0.7	223	2
3730MH0007210031303582C00	3582	13933	7.31	-0.2	0.2	32.6	0.6	191	3
3730MH0007210031303583C00	3583	13975	7.01	-0.2	0.2	31.6	0.6	159	4
3730MH0007210031303584C00	3584	14017	6.73	-0.2	0.2	30.6	0.6	127	5
3730MH0007210031303585C00	3585	14059	6.47	-0.2	0.1	29.7	0.5	95	6
3730MH0007210031303586C00	3586	14101	6.22	-0.1	0.1	28.8	0.5	63	7
3730MH0007210031303587C00	3587	14143	5.99	-0.1	0.1	28.0	0.5	31	8

UPDATED: 15_September_2023

SOL 3730 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

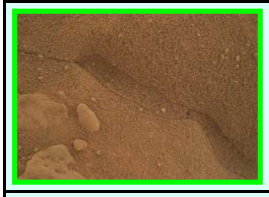
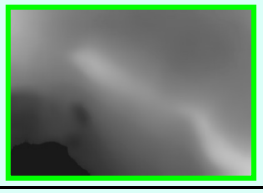
target Alegria – stereo-1 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3730MH0007230011303592C00				
BEST FOCUS IMAGE:	3730MH0008170001303615R00	3615	MOTOR COUNT:	14164	RANGE (cm):	5.9		
RANGE MAP PRODUCT:	3730MH0008170001303616S00	3616	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	2-Feb-23		MERGE SEQUENCE:	mhli00817	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3730	FOCUS MERGED ON SOL:	3730			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3730MH0007230031303594C00	3594	14020	6.71	-0.2	0.2	30.5	0.6	255	1
3730MH0007230031303595C00	3595	14056	6.49	-0.2	0.1	29.7	0.5	223	2
3730MH0007230031303596C00	3596	14092	6.28	-0.1	0.1	29.0	0.5	191	3
3730MH0007230031303597C00	3597	14128	6.07	-0.1	0.1	28.3	0.5	159	4
3730MH0007230031303598C00	3598	14164	5.88	-0.1	0.1	27.6	0.4	127	5
3730MH0007230031303599C00	3599	14200	5.69	-0.1	0.1	26.9	0.4	95	6
3730MH0007230031303600C00	3600	14236	5.52	-0.1	0.1	26.3	0.4	63	7
3730MH0007230031303601C00	3601	14272	5.35	-0.1	0.1	25.7	0.4	31	8

UPDATED: 15_September_2023

SOL 3730 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Alegria – stereo-2 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3730MH0007230011303603C00				
BEST FOCUS IMAGE:	3730MH0008170001303613R00	3613	MOTOR COUNT:	14163	RANGE (cm):	5.9		
RANGE MAP PRODUCT:	3730MH0008170001303614S00	3614	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	2-Feb-23		MERGE SEQUENCE:	mhli00817	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3730	FOCUS MERGED ON SOL:	3730			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3730MH0007230031303605C00	3605	14019	6.72	-0.2	0.2	30.6	0.6	255	1
3730MH0007230031303606C00	3606	14055	6.50	-0.2	0.1	29.8	0.5	223	2
3730MH0007230031303607C00	3607	14091	6.28	-0.1	0.1	29.0	0.5	191	3
3730MH0007230031303608C00	3608	14127	6.08	-0.1	0.1	28.3	0.5	159	4
3730MH0007230031303609C00	3609	14163	5.88	-0.1	0.1	27.6	0.4	127	5
3730MH0007230031303610C00	3610	14199	5.70	-0.1	0.1	27.0	0.4	95	6
3730MH0007230031303611C00	3611	14235	5.52	-0.1	0.1	26.3	0.4	63	7
3730MH0007230031303612C00	3612	14271	5.35	-0.1	0.1	25.7	0.4	31	8

UPDATED: 15_September_2023

SOL 3732 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



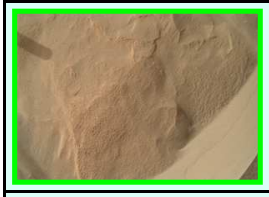
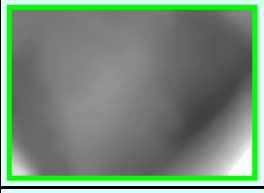

target Pasamoni – stereo-1 – ~55 mm standoff

		CDPID	CORRESPONDING FRAME:	3732MH0002990011303624C00			
BEST FOCUS IMAGE:	3733MH0002270001303683R00	3683	MOTOR COUNT:	13947	RANGE (cm):	7.2	
RANGE MAP PRODUCT:	3733MH0002270001303684S00	3684	ACQUIRED SEQUENCE:	mhli00299	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Feb-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3732	FOCUS MERGED ON SOL:	3733		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3732MH0002990021303625C00	3625	13803	8.34	-0.2	0.2	36.3	0.8	255	1
3732MH0002990021303626C00	3626	13839	8.03	-0.2	0.2	35.2	0.7	223	2
3732MH0002990021303627C00	3627	13875	7.74	-0.2	0.2	34.2	0.7	191	3
3732MH0002990021303628C00	3628	13911	7.47	-0.2	0.2	33.2	0.7	159	4
3732MH0002990021303629C00	3629	13947	7.21	-0.2	0.2	32.3	0.6	127	5
3732MH0002990021303630C00	3630	13983	6.96	-0.2	0.2	31.4	0.6	95	6
3732MH0002990021303631C00	3631	14019	6.72	-0.2	0.2	30.6	0.6	63	7
3732MH0002990021303632C00	3632	14055	6.50	-0.2	0.1	29.8	0.5	31	8

UPDATED: 15_September_2023

SOL 3732 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

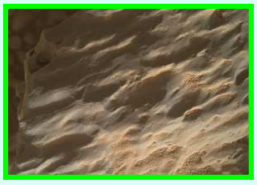
target Pasamoni – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3732MH0002990011303634C00			
BEST FOCUS IMAGE:	3733MH0002270001303681R00	3681	MOTOR COUNT:	13962	RANGE (cm):	7.1	
RANGE MAP PRODUCT:	3733MH0002270001303682S00	3682	ACQUIRED SEQUENCE:	mhli00299	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Feb-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3732	FOCUS MERGED ON SOL:	3733		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3732MH0002990021303635C00	3635	13818	8.21	-0.2	0.2	35.8	0.8	255	1
3732MH0002990021303636C00	3636	13854	7.91	-0.2	0.2	34.7	0.7	223	2
3732MH0002990021303637C00	3637	13890	7.63	-0.2	0.2	33.7	0.7	191	3
3732MH0002990021303638C00	3638	13926	7.36	-0.2	0.2	32.8	0.6	159	4
3732MH0002990021303639C00	3639	13962	7.10	-0.2	0.2	31.9	0.6	127	5
3732MH0002990021303640C00	3640	13998	6.86	-0.2	0.2	31.0	0.6	95	6
3732MH0002990021303641C00	3641	14034	6.63	-0.2	0.2	30.2	0.6	63	7
3732MH0002990021303642C00	3642	14070	6.41	-0.2	0.1	29.4	0.5	31	8

UPDATED: 15_September_2023

SOL 3732 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Paraiso – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3732MH0002970011303646C00			
BEST FOCUS IMAGE:	3733MH0002270001303679R00	3679	MOTOR COUNT:	14011	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3733MH0002270001303680S00	3680	ACQUIRED SEQUENCE:	mhli00297	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Feb-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	60	ACQUIRED ON SOL:	3732	FOCUS MERGED ON SOL:	3733		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3732MH0002970021303647C00	3647	13771	8.63	-0.2	0.2	37.3	0.8	255	1
3732MH0002970021303648C00	3648	13831	8.10	-0.2	0.2	35.4	0.7	223	2
3732MH0002970021303649C00	3649	13891	7.62	-0.2	0.2	33.7	0.7	191	3
3732MH0002970021303650C00	3650	13951	7.18	-0.2	0.2	32.2	0.6	159	4
3732MH0002970021303651C00	3651	14011	6.77	-0.2	0.2	30.7	0.6	127	5
3732MH0002970021303652C00	3652	14071	6.40	-0.2	0.1	29.4	0.5	95	6
3732MH0002970021303653C00	3653	14131	6.06	-0.1	0.1	28.2	0.5	63	7
3732MH0002970021303654C00	3654	14191	5.74	-0.1	0.1	27.1	0.4	31	8

UPDATED: 15_September_2023

SOL 3732 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Paraiso – stereo-2 – ~5 cm standoff

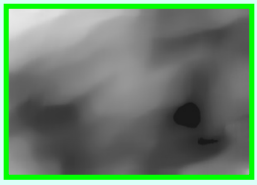
		CDPID	CORRESPONDING FRAME:	3732MH0002970011303656C00			
BEST FOCUS IMAGE:	3733MH0002270001303677R00	3677	MOTOR COUNT:	14023	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3733MH0002270001303678S00	3678	ACQUIRED SEQUENCE:	mhli00297	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Feb-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	60	ACQUIRED ON SOL:	3732	FOCUS MERGED ON SOL:	3733		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3732MH0002970021303657C00	3657	13783	8.52	-0.2	0.2	36.9	0.8	255	1
3732MH0002970021303658C00	3658	13843	8.00	-0.2	0.2	35.1	0.7	223	2
3732MH0002970021303659C00	3659	13903	7.53	-0.2	0.2	33.4	0.7	191	3
3732MH0002970021303660C00	3660	13963	7.09	-0.2	0.2	31.9	0.6	159	4
3732MH0002970021303661C00	3661	14023	6.70	-0.2	0.2	30.5	0.6	127	5
3732MH0002970021303662C00	3662	14083	6.33	-0.2	0.1	29.2	0.5	95	6
3732MH0002970021303663C00	3663	14143	5.99	-0.1	0.1	28.0	0.5	63	7
3732MH0002970021303664C00	3664	14203	5.68	-0.1	0.1	26.9	0.4	31	8

UPDATED: 15_September_2023

SOL 3732 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





target Paraiso – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3732MH0007960011303666C00			
BEST FOCUS IMAGE:	3733MH0002270001303675R00	3675	MOTOR COUNT:	15118	RANGE (cm):	2.8	
RANGE MAP PRODUCT:	3733MH0002270001303676S00	3676	ACQUIRED SEQUENCE:	mhli00796	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	4-Feb-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3732	FOCUS MERGED ON SOL:	3733		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3732MH0007960021303667C00	3667	14950	3.15	-0.1	0.1	18.0	0.2	255	1
3732MH0007960021303668C00	3668	14992	3.06	-0.1	0.1	17.7	0.2	223	2
3732MH0007960021303669C00	3669	15034	2.97	-0.1	0.1	17.3	0.2	191	3
3732MH0007960021303670C00	3670	15076	2.88	-0.1	0.1	17.0	0.2	159	4
3732MH0007960021303671C00	3671	15118	2.80	-0.1	0.1	16.8	0.2	127	5
3732MH0007960021303672C00	3672	15160	2.72	-0.1	0.1	16.5	0.2	95	6
3732MH0007960021303673C00	3673	15202	2.64	-0.1	0.1	16.2	0.2	63	7
3732MH0007960021303674C00	3674	15244	2.57	-0.1	0.1	15.9	0.2	31	8

UPDATED: 18_September_2023

SOL 3735 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Pico_Espejo – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3735MH0001730011303688C00			
BEST FOCUS IMAGE:	3735MH0001530001303735R00	3735	MOTOR COUNT:	13971	RANGE (cm):	7.0	
RANGE MAP PRODUCT:	3735MH0001530001303736S00	3736	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	7-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3735	FOCUS MERGED ON SOL:	3735		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3735MH0001730021303689C00	3689	13851	7.94	-0.2	0.2	34.8	0.7	255	1
3735MH0001730021303690C00	3690	13881	7.70	-0.2	0.2	34.0	0.7	223	2
3735MH0001730021303691C00	3691	13911	7.47	-0.2	0.2	33.2	0.7	191	3
3735MH0001730021303692C00	3692	13941	7.25	-0.2	0.2	32.4	0.6	159	4
3735MH0001730021303693C00	3693	13971	7.04	-0.2	0.2	31.7	0.6	127	5
3735MH0001730021303694C00	3694	14001	6.84	-0.2	0.2	31.0	0.6	95	6
3735MH0001730021303695C00	3695	14031	6.64	-0.2	0.2	30.3	0.6	63	7
3735MH0001730021303696C00	3696	14061	6.46	-0.2	0.1	29.6	0.5	31	8

UPDATED: 18_September_2023

SOL 3735 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



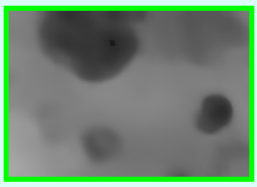

target Pico_Espejo – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3735MH0001730011303698C00			
BEST FOCUS IMAGE:	3735MH0001530001303733R00	3733	MOTOR COUNT:	13966	RANGE (cm):	7.1	
RANGE MAP PRODUCT:	3735MH0001530001303734S00	3734	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	7-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3735	FOCUS MERGED ON SOL:	3735		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3735MH0001730021303699C00	3699	13846	7.98	-0.2	0.2	35.0	0.7	255	1
3735MH0001730021303700C00	3700	13876	7.74	-0.2	0.2	34.1	0.7	223	2
3735MH0001730021303701C00	3701	13906	7.50	-0.2	0.2	33.3	0.7	191	3
3735MH0001730021303702C00	3702	13936	7.28	-0.2	0.2	32.5	0.6	159	4
3735MH0001730021303703C00	3703	13966	7.07	-0.2	0.2	31.8	0.6	127	5
3735MH0001730021303704C00	3704	13996	6.87	-0.2	0.2	31.1	0.6	95	6
3735MH0001730021303705C00	3705	14026	6.68	-0.2	0.2	30.4	0.6	63	7
3735MH0001730021303706C00	3706	14056	6.49	-0.2	0.1	29.7	0.5	31	8

UPDATED: 18_September_2023

SOL 3735 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

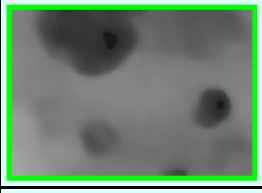
target Uatatas – stereo-1 – ~45 mm standoff

			CDPID	CORRESPONDING FRAME:	3735MH0002990011303710C00		
BEST FOCUS IMAGE:	3735MH0001530001303731R00		3731	MOTOR COUNT:	14060	RANGE (cm):	6.5
RANGE MAP PRODUCT:	3735MH0001530001303732S00		3732	ACQUIRED SEQUENCE:	mhli00299	STACK TYPE:	RELATIVE
ACQUIRED ON DATE:	7-Feb-23			MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3735	FOCUS MERGED ON SOL:	3735		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3735MH0002990021303711C00	3711	13916	7.43	-0.2	0.2	33.1	0.6	255	1
3735MH0002990021303712C00	3712	13952	7.17	-0.2	0.2	32.1	0.6	223	2
3735MH0002990021303713C00	3713	13988	6.92	-0.2	0.2	31.3	0.6	191	3
3735MH0002990021303714C00	3714	14024	6.69	-0.2	0.2	30.4	0.6	159	4
3735MH0002990021303715C00	3715	14060	6.47	-0.2	0.1	29.7	0.5	127	5
3735MH0002990021303716C00	3716	14096	6.25	-0.1	0.1	28.9	0.5	95	6
3735MH0002990021303717C00	3717	14132	6.05	-0.1	0.1	28.2	0.5	63	7
3735MH0002990021303718C00	3718	14168	5.86	-0.1	0.1	27.5	0.4	31	8

UPDATED: 18_September_2023

SOL 3735 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Uatatas – stereo-2 – ~45 mm standoff

			CDPID	CORRESPONDING FRAME:	3735MH0002990011303720C00		
BEST FOCUS IMAGE:	3735MH0001530001303729R00		3729	MOTOR COUNT:	14061	RANGE (cm):	6.5
RANGE MAP PRODUCT:	3735MH0001530001303730S00		3730	ACQUIRED SEQUENCE:	mhli00299	STACK TYPE:	RELATIVE
ACQUIRED ON DATE:	7-Feb-23			MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3735	FOCUS MERGED ON SOL:	3735		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3735MH0002990021303721C00	3721	13917	7.42	-0.2	0.2	33.0	0.6	255	1
3735MH0002990021303722C00	3722	13953	7.16	-0.2	0.2	32.1	0.6	223	2
3735MH0002990021303723C00	3723	13989	6.92	-0.2	0.2	31.2	0.6	191	3
3735MH0002990021303724C00	3724	14025	6.68	-0.2	0.2	30.4	0.6	159	4
3735MH0002990021303725C00	3725	14061	6.46	-0.2	0.1	29.6	0.5	127	5
3735MH0002990021303726C00	3726	14097	6.25	-0.1	0.1	28.9	0.5	95	6
3735MH0002990021303727C00	3727	14133	6.05	-0.1	0.1	28.2	0.5	63	7
3735MH0002990021303728C00	3728	14169	5.85	-0.1	0.1	27.5	0.4	31	8

UPDATED: 18_September_2023

SOL 3737 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Dinira – after DRT – APXS spot 2 – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3737MH0007630011303745C00			
BEST FOCUS IMAGE:	3737MH0001530001303796R00	3796	MOTOR COUNT:	14019	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3737MH0001530001303797S00	3797	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	9-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3737	FOCUS MERGED ON SOL:	3737		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3737MH0007630031303747C00	3747	13923	7.38	-0.2	0.2	32.9	0.6	255	1
3737MH0007630031303748C00	3748	13947	7.21	-0.2	0.2	32.3	0.6	223	2
3737MH0007630031303749C00	3749	13971	7.04	-0.2	0.2	31.7	0.6	191	3
3737MH0007630031303750C00	3750	13995	6.88	-0.2	0.2	31.1	0.6	159	4
3737MH0007630031303751C00	3751	14019	6.72	-0.2	0.2	30.6	0.6	127	5
3737MH0007630031303752C00	3752	14043	6.57	-0.2	0.1	30.0	0.5	95	6
3737MH0007630031303753C00	3753	14067	6.42	-0.2	0.1	29.5	0.5	63	7
3737MH0007630031303754C00	3754	14091	6.28	-0.1	0.1	29.0	0.5	31	8

UPDATED: 18_September_2023

SOL 3737 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Dinira – after DRT – APXS spot 2 – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3737MH0007630011303756C00			
BEST FOCUS IMAGE:	3737MH0001530001303794R00	3794	MOTOR COUNT:	14029	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3737MH0001530001303795S00	3795	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	9-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3737	FOCUS MERGED ON SOL:	3737		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3737MH0007630031303758C00	3758	13933	7.31	-0.2	0.2	32.6	0.6	255	1
3737MH0007630031303759C00	3759	13957	7.14	-0.2	0.2	32.0	0.6	223	2
3737MH0007630031303760C00	3760	13981	6.97	-0.2	0.2	31.4	0.6	191	3
3737MH0007630031303761C00	3761	14005	6.81	-0.2	0.2	30.9	0.6	159	4
3737MH0007630031303762C00	3762	14029	6.66	-0.2	0.2	30.3	0.6	127	5
3737MH0007630031303763C00	3763	14053	6.51	-0.2	0.1	29.8	0.5	95	6
3737MH0007630031303764C00	3764	14077	6.36	-0.2	0.1	29.3	0.5	63	7
3737MH0007630031303765C00	3765	14101	6.22	-0.1	0.1	28.8	0.5	31	8

UPDATED: 18_September_2023

SOL 3737 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



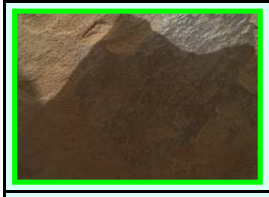

target Dinira – after DRT – APXS spot 2 – ~2 cm standoff

		CDPID	CORRESPONDING FRAME:	3737MH0008240011303767C00			
BEST FOCUS IMAGE:	3737MH0001530001303792R00	3792	MOTOR COUNT:	14744	RANGE (cm):	3.7	
RANGE MAP PRODUCT:	3737MH0001530001303793S00	3793	ACQUIRED SEQUENCE:	mhli00824	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	9-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3737	FOCUS MERGED ON SOL:	3737		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3737MH0008240031303769C00	3769	14576	4.16	-0.1	0.1	21.6	0.3	255	1
3737MH0008240031303770C00	3770	14618	4.03	-0.1	0.1	21.1	0.3	223	2
3737MH0008240031303771C00	3771	14660	3.90	-0.1	0.1	20.6	0.3	191	3
3737MH0008240031303772C00	3772	14702	3.78	-0.1	0.1	20.2	0.3	159	4
3737MH0008240031303773C00	3773	14744	3.66	-0.1	0.1	19.8	0.3	127	5
3737MH0008240031303774C00	3774	14786	3.55	-0.1	0.1	19.4	0.3	95	6
3737MH0008240031303775C00	3775	14828	3.44	-0.1	0.1	19.0	0.2	63	7
3737MH0008240031303776C00	3776	14870	3.34	-0.1	0.1	18.6	0.2	31	8

UPDATED: 18_September_2023

SOL 3737 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Dinira – after DRT – APXS spot 1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3737MH0007630011303778C00			
BEST FOCUS IMAGE:	3737MH0001530001303790R00	3790	MOTOR COUNT:	14022	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3737MH0001530001303791S00	3791	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	9-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3737	FOCUS MERGED ON SOL:	3737		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3737MH0007630031303780C00	3780	13926	7.36	-0.2	0.2	32.8	0.6	255	1
3737MH0007630031303781C00	3781	13950	7.18	-0.2	0.2	32.2	0.6	223	2
3737MH0007630031303782C00	3782	13974	7.02	-0.2	0.2	31.6	0.6	191	3
3737MH0007630031303783C00	3783	13998	6.86	-0.2	0.2	31.0	0.6	159	4
3737MH0007630031303784C00	3784	14022	6.70	-0.2	0.2	30.5	0.6	127	5
3737MH0007630031303785C00	3785	14046	6.55	-0.2	0.1	30.0	0.5	95	6
3737MH0007630031303786C00	3786	14070	6.41	-0.2	0.1	29.4	0.5	63	7
3737MH0007630031303787C00	3787	14094	6.27	-0.1	0.1	29.0	0.5	31	8

UPDATED: 18_September_2023

SOL 3739 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



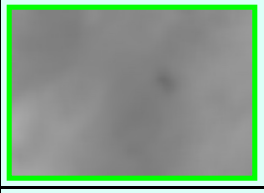

target Yakarinta – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3739MH0001730011303801C00			
BEST FOCUS IMAGE:	3739MH0001710001303886R00	3886	MOTOR COUNT:	14010	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3739MH0001710001303887S00	3887	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Feb-23		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3739	FOCUS MERGED ON SOL:	3739		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3739MH0001730021303802C00	3802	13890	7.63	-0.2	0.2	33.7	0.7	255	1
3739MH0001730021303803C00	3803	13920	7.40	-0.2	0.2	32.9	0.6	223	2
3739MH0001730021303804C00	3804	13950	7.18	-0.2	0.2	32.2	0.6	191	3
3739MH0001730021303805C00	3805	13980	6.98	-0.2	0.2	31.5	0.6	159	4
3739MH0001730021303806C00	3806	14010	6.78	-0.2	0.2	30.8	0.6	127	5
3739MH0001730021303807C00	3807	14040	6.59	-0.2	0.2	30.1	0.5	95	6
3739MH0001730021303808C00	3808	14070	6.41	-0.2	0.1	29.4	0.5	63	7
3739MH0001730021303809C00	3809	14100	6.23	-0.1	0.1	28.8	0.5	31	8

UPDATED: 18_September_2023

SOL 3739 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

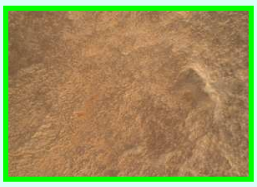
target Yakarinta – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3739MH0001730011303811C00			
BEST FOCUS IMAGE:	3739MH0001710001303884R00	3884	MOTOR COUNT:	14021	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3739MH0001710001303885S00	3885	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Feb-23		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3739	FOCUS MERGED ON SOL:	3739		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3739MH0001730021303812C00	3812	13901	7.54	-0.2	0.2	33.4	0.7	255	1
3739MH0001730021303813C00	3813	13931	7.32	-0.2	0.2	32.7	0.6	223	2
3739MH0001730021303814C00	3814	13961	7.11	-0.2	0.2	31.9	0.6	191	3
3739MH0001730021303815C00	3815	13991	6.90	-0.2	0.2	31.2	0.6	159	4
3739MH0001730021303816C00	3816	14021	6.71	-0.2	0.2	30.5	0.6	127	5
3739MH0001730021303817C00	3817	14051	6.52	-0.2	0.1	29.9	0.5	95	6
3739MH0001730021303818C00	3818	14081	6.34	-0.2	0.1	29.2	0.5	63	7
3739MH0001730021303819C00	3819	14111	6.17	-0.1	0.1	28.6	0.5	31	8

UPDATED: 18_September_2023

SOL 3739 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



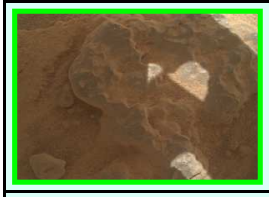
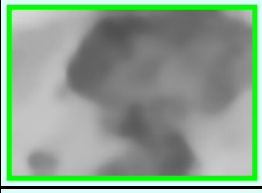

target Yakarinta – after DRT – ~15 mm standoff

			CDPID	CORRESPONDING FRAME:	3739MH0003860011303821C00			
BEST FOCUS IMAGE:	3739MH0001710001303882R00		3882	MOTOR COUNT:	14931	RANGE (cm):	3.2	
RANGE MAP PRODUCT:	3739MH0001710001303883S00		3883	ACQUIRED SEQUENCE:	mhli00386	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Feb-23			MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3739	FOCUS MERGED ON SOL:	3739			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3739MH0003860021303822C00	3822	14715	3.74	-0.1	0.1	20.1	0.3	255	1
3739MH0003860021303823C00	3823	14769	3.59	-0.1	0.1	19.5	0.3	223	2
3739MH0003860021303824C00	3824	14823	3.45	-0.1	0.1	19.1	0.2	191	3
3739MH0003860021303825C00	3825	14877	3.32	-0.1	0.1	18.6	0.2	159	4
3739MH0003860021303826C00	3826	14931	3.19	-0.1	0.1	18.1	0.2	127	5
3739MH0003860021303827C00	3827	14985	3.07	-0.1	0.1	17.7	0.2	95	6
3739MH0003860021303828C00	3828	15039	2.96	-0.1	0.1	17.3	0.2	63	7
3739MH0003860021303829C00	3829	15093	2.85	-0.1	0.1	16.9	0.2	31	8

UPDATED: 18_September_2023

SOL 3739 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

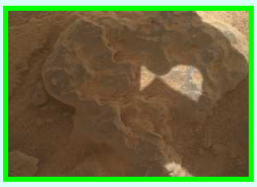
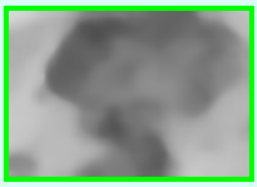
target Itu – stereo-1 – ~5 cm standoff

			CDPID	CORRESPONDING FRAME:	3739MH0001730011303833C00			
BEST FOCUS IMAGE:	3739MH0001710001303880R00		3880	MOTOR COUNT:	14012	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3739MH0001710001303881S00		3881	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Feb-23			MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3739	FOCUS MERGED ON SOL:	3739			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3739MH0001730021303834C00	3834	13892	7.61	-0.2	0.2	33.7	0.7	255	1
3739MH0001730021303835C00	3835	13922	7.39	-0.2	0.2	32.9	0.6	223	2
3739MH0001730021303836C00	3836	13952	7.17	-0.2	0.2	32.1	0.6	191	3
3739MH0001730021303837C00	3837	13982	6.96	-0.2	0.2	31.4	0.6	159	4
3739MH0001730021303838C00	3838	14012	6.77	-0.2	0.2	30.7	0.6	127	5
3739MH0001730021303839C00	3839	14042	6.58	-0.2	0.2	30.0	0.5	95	6
3739MH0001730021303840C00	3840	14072	6.39	-0.2	0.1	29.4	0.5	63	7
3739MH0001730021303841C00	3841	14102	6.22	-0.1	0.1	28.8	0.5	31	8

UPDATED: 18_September_2023

SOL 3739 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

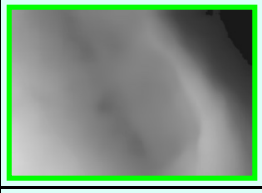
target Itu – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3739MH0001730011303843C00			
BEST FOCUS IMAGE:	3739MH0001710001303878R00	3878	MOTOR COUNT:	14012	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3739MH0001710001303879S00	3879	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Feb-23		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3739	FOCUS MERGED ON SOL:	3739		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3739MH0001730021303844C00	3844	13892	7.61	-0.2	0.2	33.7	0.7	255	1
3739MH0001730021303845C00	3845	13922	7.39	-0.2	0.2	32.9	0.6	223	2
3739MH0001730021303846C00	3846	13952	7.17	-0.2	0.2	32.1	0.6	191	3
3739MH0001730021303847C00	3847	13982	6.96	-0.2	0.2	31.4	0.6	159	4
3739MH0001730021303848C00	3848	14012	6.77	-0.2	0.2	30.7	0.6	127	5
3739MH0001730021303849C00	3849	14042	6.58	-0.2	0.2	30.0	0.5	95	6
3739MH0001730021303850C00	3850	14072	6.39	-0.2	0.1	29.4	0.5	63	7
3739MH0001730021303851C00	3851	14102	6.22	-0.1	0.1	28.8	0.5	31	8

UPDATED: 18_September_2023

SOL 3739 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Uraricaa – ~24 cm standoff

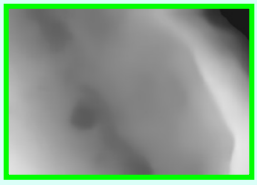
		CDPID	CORRESPONDING FRAME:	3739MH0007810011303853C00			
BEST FOCUS IMAGE:	3739MH0001710001303876R00	3876	MOTOR COUNT:	13028	RANGE (cm):	25.9	
RANGE MAP PRODUCT:	3739MH0001710001303877S00	3877	ACQUIRED SEQUENCE:	mhli00781	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	11-Feb-23		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3739	FOCUS MERGED ON SOL:	3739		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3739MH0007810031303855C00	3855	12908	35.11	-3.0	3.6	130.5	11.7	255	1
3739MH0007810031303856C00	3856	12938	32.28	-2.6	3.0	120.5	9.9	223	2
3739MH0007810031303857C00	3857	12968	29.84	-2.2	2.6	111.9	8.4	191	3
3739MH0007810031303858C00	3858	12998	27.73	-1.9	2.2	104.5	7.3	159	4
3739MH0007810031303859C00	3859	13028	25.87	-1.7	1.9	98.0	6.3	127	5
3739MH0007810031303860C00	3860	13058	24.22	-1.5	1.7	92.2	5.5	95	6
3739MH0007810031303861C00	3861	13088	22.76	-1.3	1.5	87.0	4.9	63	7
3739MH0007810031303862C00	3862	13118	21.45	-1.2	1.3	82.4	4.3	31	8

UPDATED: 18_September_2023

SOL 3739 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





target Uraricaa – ~14 cm standoff

		CDPID	CORRESPONDING FRAME:	3739MH0007820011303864C00		
BEST FOCUS IMAGE:	3739MH0001710001303874R00	3874	MOTOR COUNT:	13296	RANGE (cm):	15.8
RANGE MAP PRODUCT:	3739MH0001710001303875S00	3875	ACQUIRED SEQUENCE:	mhli00782	STACK TYPE:	RELATIVE
ACQUIRED ON DATE:	11-Feb-23		MERGE SEQUENCE:	mhli00171	MERGE TYPE:	BASIC
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3739	FOCUS MERGED ON SOL:	3739	

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3739MH0007820031303866C00	3866	13152	20.11	-1.1	1.1	77.7	3.8	255	1
3739MH0007820031303867C00	3867	13188	18.85	-0.9	1.0	73.3	3.4	223	2
3739MH0007820031303868C00	3868	13224	17.72	-0.8	0.9	69.3	3.0	191	3
3739MH0007820031303869C00	3869	13260	16.70	-0.7	0.8	65.7	2.7	159	4
3739MH0007820031303870C00	3870	13296	15.78	-0.7	0.7	62.4	2.4	127	5
3739MH0007820031303871C00	3871	13332	14.94	-0.6	0.6	59.5	2.1	95	6
3739MH0007820031303872C00	3872	13368	14.17	-0.6	0.6	56.8	1.9	63	7
3739MH0007820031303873C00	3873	13404	13.47	-0.5	0.5	54.3	1.8	31	8

UPDATED: 18_September_2023

SOL 3744 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



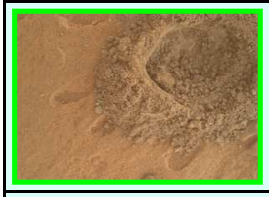
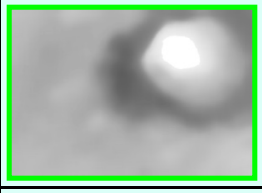

Dinira attempted (sol 3742) drill hole – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3744MH0002970011303897C00			
BEST FOCUS IMAGE:	3744MH0001930001303930R00	3930	MOTOR COUNT:	14038	RANGE (cm):	6.6	
RANGE MAP PRODUCT:	3744MH0001930001303931S00	3931	ACQUIRED SEQUENCE:	mhli00297	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	16-Feb-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	60	ACQUIRED ON SOL:	3744	FOCUS MERGED ON SOL:	3744		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3744MH0002970021303898C00	3898	13798	8.39	-0.2	0.2	36.4	0.8	255	1
3744MH0002970021303899C00	3899	13858	7.88	-0.2	0.2	34.6	0.7	223	2
3744MH0002970021303900C00	3900	13918	7.42	-0.2	0.2	33.0	0.6	191	3
3744MH0002970021303901C00	3901	13978	6.99	-0.2	0.2	31.5	0.6	159	4
3744MH0002970021303902C00	3902	14038	6.60	-0.2	0.2	30.1	0.5	127	5
3744MH0002970021303903C00	3903	14098	6.24	-0.1	0.1	28.9	0.5	95	6
3744MH0002970021303904C00	3904	14158	5.91	-0.1	0.1	27.7	0.4	63	7
3744MH0002970021303905C00	3905	14218	5.60	-0.1	0.1	26.6	0.4	31	8

UPDATED: 18_September_2023

SOL 3744 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

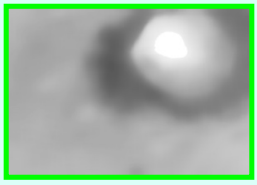
Dinira drill cuttings – after sol 3742 drill attempt – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3744MH0001730011303907C00			
BEST FOCUS IMAGE:	3744MH0001930001303928R00	3928	MOTOR COUNT:	13980	RANGE (cm):	7.0	
RANGE MAP PRODUCT:	3744MH0001930001303929S00	3929	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	16-Feb-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3744	FOCUS MERGED ON SOL:	3744		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3744MH0001730021303908C00	3908	13860	7.86	-0.2	0.2	34.6	0.7	255	1
3744MH0001730021303909C00	3909	13890	7.63	-0.2	0.2	33.7	0.7	223	2
3744MH0001730021303910C00	3910	13920	7.40	-0.2	0.2	32.9	0.6	191	3
3744MH0001730021303911C00	3911	13950	7.18	-0.2	0.2	32.2	0.6	159	4
3744MH0001730021303912C00	3912	13980	6.98	-0.2	0.2	31.5	0.6	127	5
3744MH0001730021303913C00	3913	14010	6.78	-0.2	0.2	30.8	0.6	95	6
3744MH0001730021303914C00	3914	14040	6.59	-0.2	0.2	30.1	0.5	63	7
3744MH0001730021303915C00	3915	14070	6.41	-0.2	0.1	29.4	0.5	31	8

UPDATED: 18_September_2023

SOL 3744 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATI

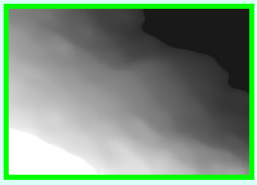
Dinira drill cuttings – after sol 3742 drill attempt – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3744MH0001730011303917C00			
BEST FOCUS IMAGE:	3744MH0001930001303926R00	3926	MOTOR COUNT:	13977	RANGE (cm):	7.0	
RANGE MAP PRODUCT:	3744MH0001930001303927S00	3927	ACQUIRED SEQUENCE:	mhli00173	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	16-Feb-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3744	FOCUS MERGED ON SOL:	3744		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3744MH0001730021303918C00	3918	13857	7.89	-0.2	0.2	34.7	0.7	255	1
3744MH0001730021303919C00	3919	13887	7.65	-0.2	0.2	33.8	0.7	223	2
3744MH0001730021303920C00	3920	13917	7.42	-0.2	0.2	33.0	0.6	191	3
3744MH0001730021303921C00	3921	13947	7.21	-0.2	0.2	32.3	0.6	159	4
3744MH0001730021303922C00	3922	13977	7.00	-0.2	0.2	31.5	0.6	127	5
3744MH0001730021303923C00	3923	14007	6.80	-0.2	0.2	30.8	0.6	95	6
3744MH0001730021303924C00	3924	14037	6.61	-0.2	0.2	30.2	0.5	63	7
3744MH0001730021303925C00	3925	14067	6.42	-0.2	0.1	29.5	0.5	31	8

UPDATED: 19_September_2023

SOL 3746 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

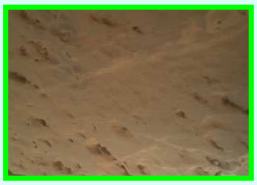
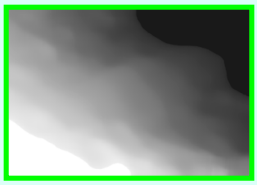
target Cunucunuma – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3746MH0007400011303936C00				
BEST FOCUS IMAGE:	3748MH0001630001304014R00	4014	MOTOR COUNT:	14013	RANGE (cm):	6.8		
RANGE MAP PRODUCT:	3748MH0001630001304015S00	4015	ACQUIRED SEQUENCE:	mhli00740	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	19-Feb-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3746	FOCUS MERGED ON SOL:	3748			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3746MH0007400031303938C00	3938	13797	8.40	-0.2	0.2	36.5	0.8	255	1
3746MH0007400031303939C00	3939	13851	7.94	-0.2	0.2	34.8	0.7	223	2
3746MH0007400031303940C00	3940	13905	7.51	-0.2	0.2	33.3	0.7	191	3
3746MH0007400031303941C00	3941	13959	7.12	-0.2	0.2	32.0	0.6	159	4
3746MH0007400031303942C00	3942	14013	6.76	-0.2	0.2	30.7	0.6	127	5
3746MH0007400031303943C00	3943	14067	6.42	-0.2	0.1	29.5	0.5	95	6
3746MH0007400031303944C00	3944	14121	6.11	-0.1	0.1	28.4	0.5	63	7
3746MH0007400031303945C00	3945	14175	5.82	-0.1	0.1	27.4	0.4	31	8

UPDATED: 19_September_2023

SOL 3746 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

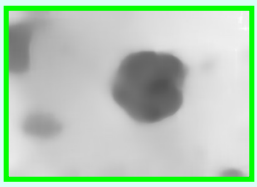
target Cunucunuma – stereo-2 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3746MH0007400011303947C00				
BEST FOCUS IMAGE:	3748MH0001630001304012R00	4012	MOTOR COUNT:	14046	RANGE (cm):	6.6		
RANGE MAP PRODUCT:	3748MH0001630001304013S00	4013	ACQUIRED SEQUENCE:	mhli00740	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	19-Feb-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3746	FOCUS MERGED ON SOL:	3748			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3746MH0007400031303949C00	3949	13830	8.11	-0.2	0.2	35.4	0.7	255	1
3746MH0007400031303950C00	3950	13884	7.67	-0.2	0.2	33.9	0.7	223	2
3746MH0007400031303951C00	3951	13938	7.27	-0.2	0.2	32.5	0.6	191	3
3746MH0007400031303952C00	3952	13992	6.90	-0.2	0.2	31.2	0.6	159	4
3746MH0007400031303953C00	3953	14046	6.55	-0.2	0.1	30.0	0.5	127	5
3746MH0007400031303954C00	3954	14100	6.23	-0.1	0.1	28.8	0.5	95	6
3746MH0007400031303955C00	3955	14154	5.93	-0.1	0.1	27.8	0.5	63	7
3746MH0007400031303956C00	3956	14208	5.65	-0.1	0.1	26.8	0.4	31	8

UPDATED: 19_September_2023

SOL 3746 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

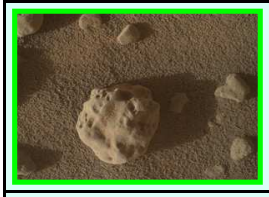
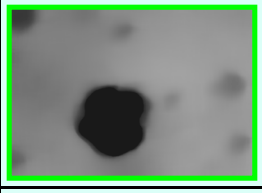
target Tres_Bocas – APXS spot 2 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3746MH0006990011303961C00			
BEST FOCUS IMAGE:	3748MH0001630001304010R00	4010	MOTOR COUNT:	14203	RANGE (cm):	5.7	
RANGE MAP PRODUCT:	3748MH0001630001304011S00	4011	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Feb-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3746	FOCUS MERGED ON SOL:	3748		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3746MH0006990031303963C00	3963	14083	6.33	-0.2	0.1	29.2	0.5	255	1
3746MH0006990031303964C00	3964	14113	6.16	-0.1	0.1	28.6	0.5	223	2
3746MH0006990031303965C00	3965	14143	5.99	-0.1	0.1	28.0	0.5	191	3
3746MH0006990031303966C00	3966	14173	5.83	-0.1	0.1	27.4	0.4	159	4
3746MH0006990031303967C00	3967	14203	5.68	-0.1	0.1	26.9	0.4	127	5
3746MH0006990031303968C00	3968	14233	5.53	-0.1	0.1	26.4	0.4	95	6
3746MH0006990031303969C00	3969	14263	5.39	-0.1	0.1	25.9	0.4	63	7
3746MH0006990031303970C00	3970	14293	5.25	-0.1	0.1	25.4	0.4	31	8

UPDATED: 19_September_2023

SOL 3746 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

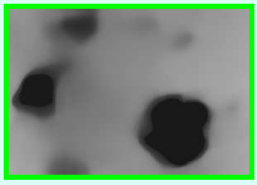
target Tres_Bocas – APXS spot 1 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3746MH0006990011303972C00			
BEST FOCUS IMAGE:	3748MH0001630001304008R00	4008	MOTOR COUNT:	14134	RANGE (cm):	6.0	
RANGE MAP PRODUCT:	3748MH0001630001304009S00	4009	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Feb-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3746	FOCUS MERGED ON SOL:	3748		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3746MH0006990031303974C00	3974	14014	6.75	-0.2	0.2	30.7	0.6	255	1
3746MH0006990031303975C00	3975	14044	6.56	-0.2	0.1	30.0	0.5	223	2
3746MH0006990031303976C00	3976	14074	6.38	-0.2	0.1	29.4	0.5	191	3
3746MH0006990031303977C00	3977	14104	6.21	-0.1	0.1	28.8	0.5	159	4
3746MH0006990031303978C00	3978	14134	6.04	-0.1	0.1	28.2	0.5	127	5
3746MH0006990031303979C00	3979	14164	5.88	-0.1	0.1	27.6	0.4	95	6
3746MH0006990031303980C00	3980	14194	5.72	-0.1	0.1	27.0	0.4	63	7
3746MH0006990031303981C00	3981	14224	5.57	-0.1	0.1	26.5	0.4	31	8

UPDATED: 19_September_2023

SOL 3746 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

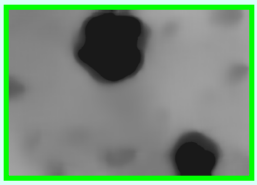
target Tres_Bocas – APXS spot 3 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3746MH0006990011303983C00			
BEST FOCUS IMAGE:	3748MH0001630001304006R00	4006	MOTOR COUNT:	14137	RANGE (cm):	6.0	
RANGE MAP PRODUCT:	3748MH0001630001304007S00	4007	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Feb-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3746	FOCUS MERGED ON SOL:	3748		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3746MH0006990031303985C00	3985	14017	6.73	-0.2	0.2	30.6	0.6	255	1
3746MH0006990031303986C00	3986	14047	6.55	-0.2	0.1	29.9	0.5	223	2
3746MH0006990031303987C00	3987	14077	6.36	-0.2	0.1	29.3	0.5	191	3
3746MH0006990031303988C00	3988	14107	6.19	-0.1	0.1	28.7	0.5	159	4
3746MH0006990031303989C00	3989	14137	6.02	-0.1	0.1	28.1	0.5	127	5
3746MH0006990031303990C00	3990	14167	5.86	-0.1	0.1	27.5	0.4	95	6
3746MH0006990031303991C00	3991	14197	5.71	-0.1	0.1	27.0	0.4	63	7
3746MH0006990031303992C00	3992	14227	5.56	-0.1	0.1	26.5	0.4	31	8

UPDATED: 19_September_2023

SOL 3746 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

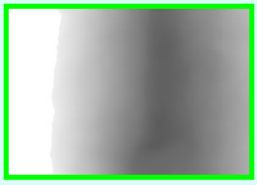
target Tres_Bocas – APXS spot 4 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3746MH0006990011303994C00			
BEST FOCUS IMAGE:	3748MH0001630001304004R00	4004	MOTOR COUNT:	14136	RANGE (cm):	6.0	
RANGE MAP PRODUCT:	3748MH0001630001304005S00	4005	ACQUIRED SEQUENCE:	mhli00699	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Feb-23		MERGE SEQUENCE:	mhli00163	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3746	FOCUS MERGED ON SOL:	3748		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3746MH0006990031303996C00	3996	14016	6.74	-0.2	0.2	30.6	0.6	255	1
3746MH0006990031303997C00	3997	14046	6.55	-0.2	0.1	30.0	0.5	223	2
3746MH0006990031303998C00	3998	14076	6.37	-0.2	0.1	29.3	0.5	191	3
3746MH0006990031303999C00	3999	14106	6.20	-0.1	0.1	28.7	0.5	159	4
3746MH0006990031304000C00	4000	14136	6.03	-0.1	0.1	28.1	0.5	127	5
3746MH0006990031304001C00	4001	14166	5.87	-0.1	0.1	27.6	0.4	95	6
3746MH0006990031304002C00	4002	14196	5.71	-0.1	0.1	27.0	0.4	63	7
3746MH0006990031304003C00	4003	14226	5.56	-0.1	0.1	26.5	0.4	31	8

UPDATED: 19_September_2023

SOL 3749 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

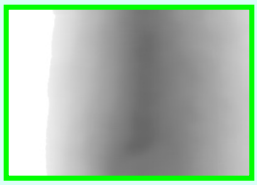
target Santana – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3749MH0007230011304020C00			
BEST FOCUS IMAGE:	3749MH0007020001304095R00	4095	MOTOR COUNT:	13967	RANGE (cm):	7.1	
RANGE MAP PRODUCT:	3749MH0007020001304096S00	4096	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Feb-23		MERGE SEQUENCE:	mhli00702	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3749	FOCUS MERGED ON SOL:	3749		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3749MH0007230031304022C00	4022	13823	8.17	-0.2	0.2	35.7	0.7	255	1
3749MH0007230031304023C00	4023	13859	7.87	-0.2	0.2	34.6	0.7	223	2
3749MH0007230031304024C00	4024	13895	7.59	-0.2	0.2	33.6	0.7	191	3
3749MH0007230031304025C00	4025	13931	7.32	-0.2	0.2	32.7	0.6	159	4
3749MH0007230031304026C00	4026	13967	7.07	-0.2	0.2	31.8	0.6	127	5
3749MH0007230031304027C00	4027	14003	6.82	-0.2	0.2	30.9	0.6	95	6
3749MH0007230031304028C00	4028	14039	6.59	-0.2	0.2	30.1	0.5	63	7
3749MH0007230031304029C00	4029	14075	6.38	-0.2	0.1	29.3	0.5	31	8

UPDATED: 19_September_2023

SOL 3749 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

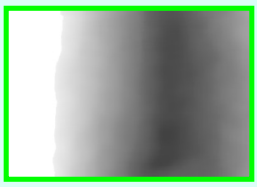
target Santana – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3749MH0007230011304031C00			
BEST FOCUS IMAGE:	3749MH0007020001304093R00	4093	MOTOR COUNT:	13985	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3749MH0007020001304094S00	4094	ACQUIRED SEQUENCE:	mhli00723	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Feb-23		MERGE SEQUENCE:	mhli00702	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3749	FOCUS MERGED ON SOL:	3749		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3749MH0007230031304033C00	4033	13841	8.02	-0.2	0.2	35.1	0.7	255	1
3749MH0007230031304034C00	4034	13877	7.73	-0.2	0.2	34.1	0.7	223	2
3749MH0007230031304035C00	4035	13913	7.45	-0.2	0.2	33.1	0.7	191	3
3749MH0007230031304036C00	4036	13949	7.19	-0.2	0.2	32.2	0.6	159	4
3749MH0007230031304037C00	4037	13985	6.94	-0.2	0.2	31.3	0.6	127	5
3749MH0007230031304038C00	4038	14021	6.71	-0.2	0.2	30.5	0.6	95	6
3749MH0007230031304039C00	4039	14057	6.48	-0.2	0.1	29.7	0.5	63	7
3749MH0007230031304040C00	4040	14093	6.27	-0.1	0.1	29.0	0.5	31	8

UPDATED: 19_September_2023

SOL 3749 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

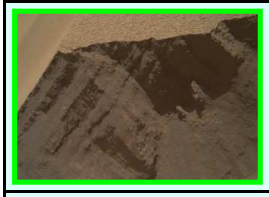
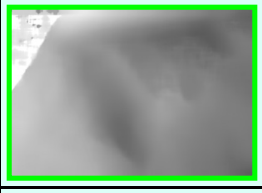
target Santana – ~3 cm standoff

		CDPID	CORRESPONDING FRAME:	3749MH0008600011304042C00			
BEST FOCUS IMAGE:	3749MH0007020001304091R00	4091	MOTOR COUNT:	14328	RANGE (cm):	5.1	
RANGE MAP PRODUCT:	3749MH0007020001304092S00	4092	ACQUIRED SEQUENCE:	mhli00860	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Feb-23		MERGE SEQUENCE:	mhli00702	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3749	FOCUS MERGED ON SOL:	3749		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3749MH0008600031304044C00	4044	14160	5.90	-0.1	0.1	27.7	0.4	255	1
3749MH0008600031304045C00	4045	14202	5.68	-0.1	0.1	26.9	0.4	223	2
3749MH0008600031304046C00	4046	14244	5.48	-0.1	0.1	26.2	0.4	191	3
3749MH0008600031304047C00	4047	14286	5.28	-0.1	0.1	25.5	0.4	159	4
3749MH0008600031304048C00	4048	14328	5.10	-0.1	0.1	24.8	0.4	127	5
3749MH0008600031304049C00	4049	14370	4.92	-0.1	0.1	24.2	0.4	95	6
3749MH0008600031304050C00	4050	14412	4.75	-0.1	0.1	23.6	0.3	63	7
3749MH0008600031304051C00	4051	14454	4.59	-0.1	0.1	23.1	0.3	31	8

UPDATED: 19_September_2023

SOL 3749 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

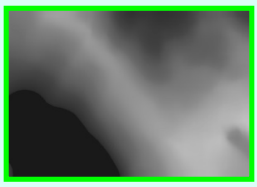
target Soledad – ~25 cm standoff

		CDPID	CORRESPONDING FRAME:	3749MH0006780011304053C00			
BEST FOCUS IMAGE:	3749MH0007020001304089R00	4089	MOTOR COUNT:	13015	RANGE (cm):	26.6	
RANGE MAP PRODUCT:	3749MH0007020001304090S00	4090	ACQUIRED SEQUENCE:	mhli00678	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	22-Feb-23		MERGE SEQUENCE:	mhli00702	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3749	FOCUS MERGED ON SOL:	3749		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3749MH0006780031304055C00	4055	12919	34.02	-2.9	3.4	126.6	11.0	255	1
3749MH0006780031304056C00	4056	12943	31.85	-2.5	2.9	119.0	9.6	223	2
3749MH0006780031304057C00	4057	12967	29.92	-2.2	2.6	112.2	8.5	191	3
3749MH0006780031304058C00	4058	12991	28.19	-2.0	2.3	106.1	7.5	159	4
3749MH0006780031304059C00	4059	13015	26.64	-1.8	2.0	100.7	6.7	127	5
3749MH0006780031304060C00	4060	13039	25.24	-1.6	1.8	95.8	6.0	95	6
3749MH0006780031304061C00	4061	13063	23.97	-1.5	1.6	91.3	5.4	63	7
3749MH0006780031304062C00	4062	13087	22.81	-1.3	1.5	87.2	4.9	31	8

UPDATED: 19_September_2023

SOL 3749 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

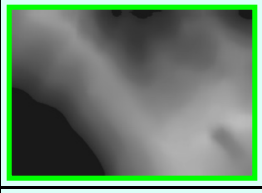
target Soledad – stereo-1 – ~55 mm standoff

		CDPID	CORRESPONDING FRAME:	3749MH0007090011304064C00				
BEST FOCUS IMAGE:	3749MH0007020001304087R00	4087	MOTOR COUNT:	13893	RANGE (cm):	7.6		
RANGE MAP PRODUCT:	3749MH0007020001304088S00	4088	ACQUIRED SEQUENCE:	mhli00709	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	22-Feb-23		MERGE SEQUENCE:	mhli00702	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3749	FOCUS MERGED ON SOL:	3749			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3749MH0007090031304066C00	4066	13701	9.32	-0.3	0.3	39.7	0.9	255	1
3749MH0007090031304067C00	4067	13749	8.84	-0.2	0.2	38.0	0.8	223	2
3749MH0007090031304068C00	4068	13797	8.40	-0.2	0.2	36.5	0.8	191	3
3749MH0007090031304069C00	4069	13845	7.98	-0.2	0.2	35.0	0.7	159	4
3749MH0007090031304070C00	4070	13893	7.60	-0.2	0.2	33.7	0.7	127	5
3749MH0007090031304071C00	4071	13941	7.25	-0.2	0.2	32.4	0.6	95	6
3749MH0007090031304072C00	4072	13989	6.92	-0.2	0.2	31.2	0.6	63	7
3749MH0007090031304073C00	4073	14037	6.61	-0.2	0.2	30.2	0.5	31	8

UPDATED: 19_September_2023

SOL 3749 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Soledad – stereo-2 – ~6 cm standoff

		CDPID	CORRESPONDING FRAME:	3749MH0007090011304075C00				
BEST FOCUS IMAGE:	3749MH0007020001304085R00	4085	MOTOR COUNT:	13883	RANGE (cm):	7.7		
RANGE MAP PRODUCT:	3749MH0007020001304086S00	4086	ACQUIRED SEQUENCE:	mhli00709	STACK TYPE:	RELATIVE		
ACQUIRED ON DATE:	22-Feb-23		MERGE SEQUENCE:	mhli00702	MERGE TYPE:	BASIC		
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3749	FOCUS MERGED ON SOL:	3749			

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3749MH0007090031304077C00	4077	13691	9.42	-0.3	0.3	40.1	0.9	255	1
3749MH0007090031304078C00	4078	13739	8.94	-0.3	0.2	38.4	0.9	223	2
3749MH0007090031304079C00	4079	13787	8.48	-0.2	0.2	36.8	0.8	191	3
3749MH0007090031304080C00	4080	13835	8.07	-0.2	0.2	35.3	0.7	159	4
3749MH0007090031304081C00	4081	13883	7.68	-0.2	0.2	33.9	0.7	127	5
3749MH0007090031304082C00	4082	13931	7.32	-0.2	0.2	32.7	0.6	95	6
3749MH0007090031304083C00	4083	13979	6.98	-0.2	0.2	31.5	0.6	63	7
3749MH0007090031304084C00	4084	14027	6.67	-0.2	0.2	30.4	0.6	31	8

UPDATED: 19_September_2023

SOL 3750 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



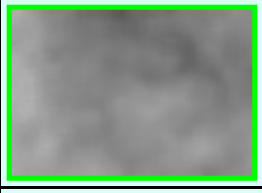

target Tapo_Caparo – after DRT – APXS spot 2 – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3750MH0008340011304101C00			
BEST FOCUS IMAGE:	3750MH0001530001304152R00	4152	MOTOR COUNT:	14012	RANGE (cm):	6.8	
RANGE MAP PRODUCT:	3750MH0001530001304153S00	4153	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	23-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3750	FOCUS MERGED ON SOL:	3750		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3750MH0008340031304103C00	4103	13940	7.26	-0.2	0.2	32.4	0.6	255	1
3750MH0008340031304104C00	4104	13958	7.13	-0.2	0.2	32.0	0.6	223	2
3750MH0008340031304105C00	4105	13976	7.00	-0.2	0.2	31.6	0.6	191	3
3750MH0008340031304106C00	4106	13994	6.88	-0.2	0.2	31.1	0.6	159	4
3750MH0008340031304107C00	4107	14012	6.77	-0.2	0.2	30.7	0.6	127	5
3750MH0008340031304108C00	4108	14030	6.65	-0.2	0.2	30.3	0.6	95	6
3750MH0008340031304109C00	4109	14048	6.54	-0.2	0.1	29.9	0.5	63	7
3750MH0008340031304110C00	4110	14066	6.43	-0.2	0.1	29.5	0.5	31	8

UPDATED: 19_September_2023

SOL 3750 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Tapo_Caparo – after DRT – APXS spot 2 – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3750MH0008340011304112C00			
BEST FOCUS IMAGE:	3750MH0001530001304150R00	4150	MOTOR COUNT:	14030	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3750MH0001530001304151S00	4151	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	23-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3750	FOCUS MERGED ON SOL:	3750		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3750MH0008340031304114C00	4114	13958	7.13	-0.2	0.2	32.0	0.6	255	1
3750MH0008340031304115C00	4115	13976	7.00	-0.2	0.2	31.6	0.6	223	2
3750MH0008340031304116C00	4116	13994	6.88	-0.2	0.2	31.1	0.6	191	3
3750MH0008340031304117C00	4117	14012	6.77	-0.2	0.2	30.7	0.6	159	4
3750MH0008340031304118C00	4118	14030	6.65	-0.2	0.2	30.3	0.6	127	5
3750MH0008340031304119C00	4119	14048	6.54	-0.2	0.1	29.9	0.5	95	6
3750MH0008340031304120C00	4120	14066	6.43	-0.2	0.1	29.5	0.5	63	7
3750MH0008340031304121C00	4121	14084	6.32	-0.1	0.1	29.2	0.5	31	8

UPDATED: 19_September_2023

SOL 3750 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



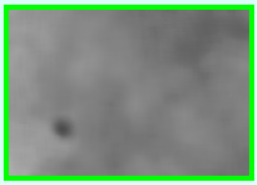

target Tapo_Caparo – after DRT – APXS spot 2 – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3750MH0008010011304123C00			
BEST FOCUS IMAGE:	3750MH0001530001304148R00	4148	MOTOR COUNT:	15185	RANGE (cm):	2.7	
RANGE MAP PRODUCT:	3750MH0001530001304149S00	4149	ACQUIRED SEQUENCE:	mhli00801	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	23-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3750	FOCUS MERGED ON SOL:	3750		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3750MH0008010031304125C00	4125	15041	2.95	-0.1	0.1	17.3	0.2	255	1
3750MH0008010031304126C00	4126	15077	2.88	-0.1	0.1	17.0	0.2	223	2
3750MH0008010031304127C00	4127	15113	2.81	-0.1	0.1	16.8	0.2	191	3
3750MH0008010031304128C00	4128	15149	2.74	-0.1	0.1	16.5	0.2	159	4
3750MH0008010031304129C00	4129	15185	2.67	-0.1	0.1	16.3	0.2	127	5
3750MH0008010031304130C00	4130	15221	2.61	-0.1	0.1	16.1	0.2	95	6
3750MH0008010031304131C00	4131	15257	2.55	-0.1	0.1	15.9	0.2	63	7
3750MH0008010031304132C00	4132	15293	2.49	0.0	0.1	15.7	0.2	31	8

updated: 19_September_2023

SOL 3750 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Tapo_Caparo – after DRT – APXS spot 1 – ~5 cm standoff

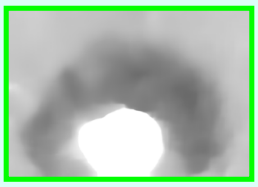
		CDPID	CORRESPONDING FRAME:	3750MH0008340011304134C00			
BEST FOCUS IMAGE:	3750MH0001530001304146R00	4146	MOTOR COUNT:	14015	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3750MH0001530001304147S00	4147	ACQUIRED SEQUENCE:	mhli00834	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	23-Feb-23		MERGE SEQUENCE:	mhli00153	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3750	FOCUS MERGED ON SOL:	3750		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3750MH0008340031304136C00	4136	13943	7.23	-0.2	0.2	32.4	0.6	255	1
3750MH0008340031304137C00	4137	13961	7.11	-0.2	0.2	31.9	0.6	223	2
3750MH0008340031304138C00	4138	13979	6.98	-0.2	0.2	31.5	0.6	191	3
3750MH0008340031304139C00	4139	13997	6.86	-0.2	0.2	31.1	0.6	159	4
3750MH0008340031304140C00	4140	14015	6.75	-0.2	0.2	30.6	0.6	127	5
3750MH0008340031304141C00	4141	14033	6.63	-0.2	0.2	30.2	0.6	95	6
3750MH0008340031304142C00	4142	14051	6.52	-0.2	0.1	29.9	0.5	63	7
3750MH0008340031304143C00	4143	14069	6.41	-0.2	0.1	29.5	0.5	31	8

UPDATED: 19_September_2023

SOL 3767 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION





Tapo_Caparo drill cuttings – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3767MH0001520011304161C00			
BEST FOCUS IMAGE:	3767MH0002580001304170R00	4170	MOTOR COUNT:	14114	RANGE (cm):	6.2	
RANGE MAP PRODUCT:	3767MH0002580001304171S00	4171	ACQUIRED SEQUENCE:	mhli00152	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	12-Mar-23		MERGE SEQUENCE:	mhli00258	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	48	ACQUIRED ON SOL:	3767	FOCUS MERGED ON SOL:	3767		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3767MH0001520021304162C00	4162	13922	7.39	-0.2	0.2	32.9	0.6	255	1
3767MH0001520021304163C00	4163	13970	7.05	-0.2	0.2	31.7	0.6	223	2
3767MH0001520021304164C00	4164	14018	6.73	-0.2	0.2	30.6	0.6	191	3
3767MH0001520021304165C00	4165	14066	6.43	-0.2	0.1	29.5	0.5	159	4
3767MH0001520021304166C00	4166	14114	6.15	-0.1	0.1	28.6	0.5	127	5
3767MH0001520021304167C00	4167	14162	5.89	-0.1	0.1	27.6	0.4	95	6
3767MH0001520021304168C00	4168	14210	5.64	-0.1	0.1	26.8	0.4	63	7
3767MH0001520021304169C00	4169	14258	5.41	-0.1	0.1	25.9	0.4	31	8

UPDATED: 19_September_2023

SOL 3769 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Tucupita – stereo-1 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3769MH0001820011304175C00			
BEST FOCUS IMAGE:	3769MH0002270001304237R00	4237	MOTOR COUNT:	14036	RANGE (cm):	6.6	
RANGE MAP PRODUCT:	3769MH0002270001304238S00	4238	ACQUIRED SEQUENCE:	mhli00182	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	14-Mar-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3769	FOCUS MERGED ON SOL:	3769		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3769MH0001820021304176C00	4176	13940	7.26	-0.2	0.2	32.4	0.6	255	1
3769MH0001820021304177C00	4177	13964	7.09	-0.2	0.2	31.8	0.6	223	2
3769MH0001820021304178C00	4178	13988	6.92	-0.2	0.2	31.3	0.6	191	3
3769MH0001820021304179C00	4179	14012	6.77	-0.2	0.2	30.7	0.6	159	4
3769MH0001820021304180C00	4180	14036	6.61	-0.2	0.2	30.2	0.5	127	5
3769MH0001820021304181C00	4181	14060	6.47	-0.2	0.1	29.7	0.5	95	6
3769MH0001820021304182C00	4182	14084	6.32	-0.1	0.1	29.2	0.5	63	7
3769MH0001820021304183C00	4183	14108	6.18	-0.1	0.1	28.7	0.5	31	8

UPDATED: 19_September_2023

SOL 3769 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




target Tucupita – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3769MH0001820011304185C00			
BEST FOCUS IMAGE:	3769MH0002270001304235R00	4235	MOTOR COUNT:	14027	RANGE (cm):	6.7	
RANGE MAP PRODUCT:	3769MH0002270001304236S00	4236	ACQUIRED SEQUENCE:	mhli00182	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	14-Mar-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3769	FOCUS MERGED ON SOL:	3769		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3769MH0001820021304186C00	4186	13931	7.32	-0.2	0.2	32.7	0.6	255	1
3769MH0001820021304187C00	4187	13955	7.15	-0.2	0.2	32.1	0.6	223	2
3769MH0001820021304188C00	4188	13979	6.98	-0.2	0.2	31.5	0.6	191	3
3769MH0001820021304189C00	4189	14003	6.82	-0.2	0.2	30.9	0.6	159	4
3769MH0001820021304190C00	4190	14027	6.67	-0.2	0.2	30.4	0.6	127	5
3769MH0001820021304191C00	4191	14051	6.52	-0.2	0.1	29.9	0.5	95	6
3769MH0001820021304192C00	4192	14075	6.38	-0.2	0.1	29.3	0.5	63	7
3769MH0001820021304193C00	4193	14099	6.24	-0.1	0.1	28.9	0.5	31	8

UPDATED: 19_September_2023

SOL 3769 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



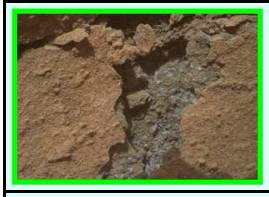
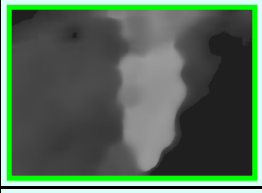

target Tucupita – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3769MH0007430011304195C00			
BEST FOCUS IMAGE:	3769MH0002270001304233R00	4233	MOTOR COUNT:	15185	RANGE (cm):	2.7	
RANGE MAP PRODUCT:	3769MH0002270001304234S00	4234	ACQUIRED SEQUENCE:	mhli00743	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	14-Mar-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	36	ACQUIRED ON SOL:	3769	FOCUS MERGED ON SOL:	3769		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3769MH0007430021304196C00	4196	15041	2.95	-0.1	0.1	17.3	0.2	255	1
3769MH0007430021304197C00	4197	15077	2.88	-0.1	0.1	17.0	0.2	223	2
3769MH0007430021304198C00	4198	15113	2.81	-0.1	0.1	16.8	0.2	191	3
3769MH0007430021304199C00	4199	15149	2.74	-0.1	0.1	16.5	0.2	159	4
3769MH0007430021304200C00	4200	15185	2.67	-0.1	0.1	16.3	0.2	127	5
3769MH0007430021304201C00	4201	15221	2.61	-0.1	0.1	16.1	0.2	95	6
3769MH0007430021304202C00	4202	15257	2.55	-0.1	0.1	15.9	0.2	63	7
3769MH0007430021304203C00	4203	15293	2.49	0.0	0.1	15.7	0.2	31	8

UPDATED: 19_September_2023

SOL 3769 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

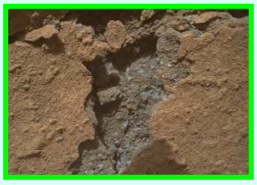
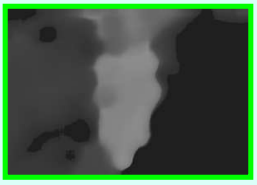
target Mariapiri – stereo-1 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3769MH0007210011304208C00			
BEST FOCUS IMAGE:	3769MH0002270001304231R00	4231	MOTOR COUNT:	14069	RANGE (cm):	6.4	
RANGE MAP PRODUCT:	3769MH0002270001304232S00	4232	ACQUIRED SEQUENCE:	mhli00721	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	14-Mar-23		MERGE SEQUENCE:	mhli00227	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3769	FOCUS MERGED ON SOL:	3769		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3769MH0007210031304210C00	4210	13901	7.54	-0.2	0.2	33.4	0.7	255	1
3769MH0007210031304211C00	4211	13943	7.23	-0.2	0.2	32.4	0.6	223	2
3769MH0007210031304212C00	4212	13985	6.94	-0.2	0.2	31.3	0.6	191	3
3769MH0007210031304213C00	4213	14027	6.67	-0.2	0.2	30.4	0.6	159	4
3769MH0007210031304214C00	4214	14069	6.41	-0.2	0.1	29.5	0.5	127	5
3769MH0007210031304215C00	4215	14111	6.17	-0.1	0.1	28.6	0.5	95	6
3769MH0007210031304216C00	4216	14153	5.94	-0.1	0.1	27.8	0.5	63	7
3769MH0007210031304217C00	4217	14195	5.72	-0.1	0.1	27.0	0.4	31	8

UPDATED: 19_September_2023

SOL 3769 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

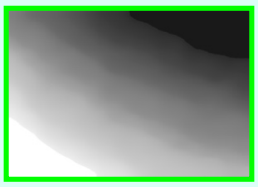
target Mariapiri – stereo-2 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3769MH0007210011304219C00			
BEST FOCUS IMAGE:	3769MH0002270001304229R00	**4229**	MOTOR COUNT:	14055	RANGE (cm):	6.5	
RANGE MAP PRODUCT:	3769MH0002270001304230S00	**4230**	**ACQUIRED SEQUENCE:**	mhli00721	**STACK TYPE:**	**RELATIVE**	
ACQUIRED ON DATE:	14-Mar-23		**MERGE SEQUENCE:**	mhli00227	**MERGE TYPE:**	**BASIC**	
MOTOR COUNT INTERVAL:	42	**ACQUIRED ON SOL:**	3769	**FOCUS MERGED ON SOL:**	3769		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3769MH0007210031304221C00	4221	13887	**7.65**	-0.2	0.2	**33.8**	0.7	**255**	1
3769MH0007210031304222C00	4222	13929	**7.33**	-0.2	0.2	**32.7**	0.6	**223**	2
3769MH0007210031304223C00	4223	13971	**7.04**	-0.2	0.2	**31.7**	0.6	**191**	3
3769MH0007210031304224C00	4224	14013	**6.76**	-0.2	0.2	**30.7**	0.6	**159**	4
3769MH0007210031304225C00	4225	14055	**6.50**	-0.2	0.1	**29.8**	0.5	**127**	5
3769MH0007210031304226C00	4226	14097	**6.25**	-0.1	0.1	**28.9**	0.5	**95**	6
3769MH0007210031304227C00	4227	14139	**6.01**	-0.1	0.1	**28.1**	0.5	**63**	7
3769MH0007210031304228C00	4228	14181	**5.79**	-0.1	0.1	**27.3**	0.4	**31**	8

UPDATED: 19_September_2023

SOL 3771 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

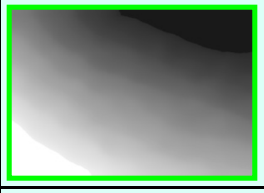
target Tamanaco – stereo-1 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3771MH0003060011304244C00			
BEST FOCUS IMAGE:	3771MH0002650001304265R00	4265	MOTOR COUNT:	14155	RANGE (cm):	5.9	
RANGE MAP PRODUCT:	3771MH0002650001304266S00	4266	ACQUIRED SEQUENCE:	mhli00306	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	16-Mar-23		MERGE SEQUENCE:	mhli00265	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3771	FOCUS MERGED ON SOL:	3771		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3771MH0003060021304245C00	4245	13939	7.26	-0.2	0.2	32.5	0.6	255	1
3771MH0003060021304246C00	4246	13993	6.89	-0.2	0.2	31.2	0.6	223	2
3771MH0003060021304247C00	4247	14047	6.55	-0.2	0.1	29.9	0.5	191	3
3771MH0003060021304248C00	4248	14101	6.22	-0.1	0.1	28.8	0.5	159	4
3771MH0003060021304249C00	4249	14155	5.93	-0.1	0.1	27.8	0.5	127	5
3771MH0003060021304250C00	4250	14209	5.65	-0.1	0.1	26.8	0.4	95	6
3771MH0003060021304251C00	4251	14263	5.39	-0.1	0.1	25.9	0.4	63	7
3771MH0003060021304252C00	4252	14317	5.14	-0.1	0.1	25.0	0.4	31	8

UPDATED: 19_September_2023

SOL 3771 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Tamanaco – stereo-2 – ~4 cm standoff

		CDPID	CORRESPONDING FRAME:	3771MH0003060011304254C00			
BEST FOCUS IMAGE:	3771MH0002650001304263R00	4263	MOTOR COUNT:	14173	RANGE (cm):	5.8	
RANGE MAP PRODUCT:	3771MH0002650001304264S00	4264	ACQUIRED SEQUENCE:	mhli00306	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	16-Mar-23		MERGE SEQUENCE:	mhli00265	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	54	ACQUIRED ON SOL:	3771	FOCUS MERGED ON SOL:	3771		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3771MH0003060021304255C00	4255	13957	7.14	-0.2	0.2	32.0	0.6	255	1
3771MH0003060021304256C00	4256	14011	6.77	-0.2	0.2	30.7	0.6	223	2
3771MH0003060021304257C00	4257	14065	6.44	-0.2	0.1	29.6	0.5	191	3
3771MH0003060021304258C00	4258	14119	6.12	-0.1	0.1	28.5	0.5	159	4
3771MH0003060021304259C00	4259	14173	5.83	-0.1	0.1	27.4	0.4	127	5
3771MH0003060021304260C00	4260	14227	5.56	-0.1	0.1	26.5	0.4	95	6
3771MH0003060021304261C00	4261	14281	5.30	-0.1	0.1	25.6	0.4	63	7
3771MH0003060021304262C00	4262	14335	5.07	-0.1	0.1	24.7	0.4	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



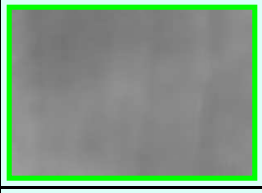

target San_Rafael – after DRT – stereo-1 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0007630011304271C00			
BEST FOCUS IMAGE:	3774MH0007280001304445R00	4445	MOTOR COUNT:	14031	RANGE (cm):	6.6	
RANGE MAP PRODUCT:	3774MH0007280001304446S00	4446	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	18-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0007630031304273C00	4273	13935	7.29	-0.2	0.2	32.6	0.6	255	1
3773MH0007630031304274C00	4274	13959	7.12	-0.2	0.2	32.0	0.6	223	2
3773MH0007630031304275C00	4275	13983	6.96	-0.2	0.2	31.4	0.6	191	3
3773MH0007630031304276C00	4276	14007	6.80	-0.2	0.2	30.8	0.6	159	4
3773MH0007630031304277C00	4277	14031	6.64	-0.2	0.2	30.3	0.6	127	5
3773MH0007630031304278C00	4278	14055	6.50	-0.2	0.1	29.8	0.5	95	6
3773MH0007630031304279C00	4279	14079	6.35	-0.2	0.1	29.3	0.5	63	7
3773MH0007630031304280C00	4280	14103	6.21	-0.1	0.1	28.8	0.5	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

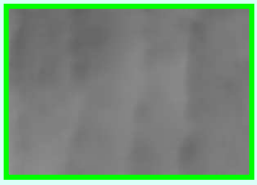
target San_Rafael – after DRT – stereo-2 – ~45 mm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0007630011304282C00			
BEST FOCUS IMAGE:	3774MH0007280001304443R00	4443	MOTOR COUNT:	14033	RANGE (cm):	6.6	
RANGE MAP PRODUCT:	3774MH0007280001304444S00	4444	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0007630031304284C00	4284	13937	7.28	-0.2	0.2	32.5	0.6	255	1
3773MH0007630031304285C00	4285	13961	7.11	-0.2	0.2	31.9	0.6	223	2
3773MH0007630031304286C00	4286	13985	6.94	-0.2	0.2	31.3	0.6	191	3
3773MH0007630031304287C00	4287	14009	6.79	-0.2	0.2	30.8	0.6	159	4
3773MH0007630031304288C00	4288	14033	6.63	-0.2	0.2	30.2	0.6	127	5
3773MH0007630031304289C00	4289	14057	6.48	-0.2	0.1	29.7	0.5	95	6
3773MH0007630031304290C00	4290	14081	6.34	-0.2	0.1	29.2	0.5	63	7
3773MH0007630031304291C00	4291	14105	6.20	-0.1	0.1	28.7	0.5	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

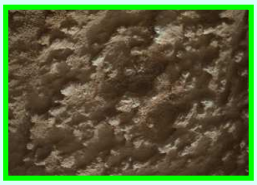
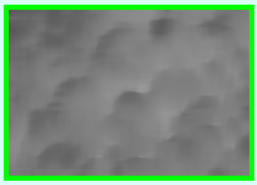
target San_Rafael – after DRT– ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0007850011304293C00			
BEST FOCUS IMAGE:	3774MH0007280001304441R00	4441	MOTOR COUNT:	15183	RANGE (cm):	2.7	
RANGE MAP PRODUCT:	3774MH0007280001304442S00	4442	ACQUIRED SEQUENCE:	mhli00785	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19–Mar–23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	42	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0007850031304295C00	4295	15015	3.01	–0.1	0.1	17.5	0.2	255	1
3773MH0007850031304296C00	4296	15057	2.92	–0.1	0.1	17.2	0.2	223	2
3773MH0007850031304297C00	4297	15099	2.84	–0.1	0.1	16.9	0.2	191	3
3773MH0007850031304298C00	4298	15141	2.76	–0.1	0.1	16.6	0.2	159	4
3773MH0007850031304299C00	4299	15183	2.68	–0.1	0.1	16.3	0.2	127	5
3773MH0007850031304300C00	4300	15225	2.60	–0.1	0.1	16.1	0.2	95	6
3773MH0007850031304301C00	4301	15267	2.53	–0.1	0.1	15.8	0.2	63	7
3773MH0007850031304302C00	4302	15309	2.46	0.0	0.1	15.6	0.2	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

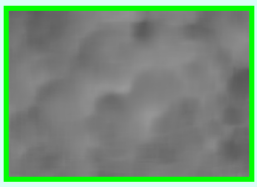
target San_Francisco_de_Yuruani – after DRT – stereo–1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0007630011304307C00			
BEST FOCUS IMAGE:	3774MH0007280001304439R00	4439	MOTOR COUNT:	13993	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3774MH0007280001304440S00	4440	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19–Mar–23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0007630031304309C00	4309	13897	7.57	–0.2	0.2	33.6	0.7	255	1
3773MH0007630031304310C00	4310	13921	7.39	–0.2	0.2	32.9	0.6	223	2
3773MH0007630031304311C00	4311	13945	7.22	–0.2	0.2	32.3	0.6	191	3
3773MH0007630031304312C00	4312	13969	7.05	–0.2	0.2	31.7	0.6	159	4
3773MH0007630031304313C00	4313	13993	6.89	–0.2	0.2	31.2	0.6	127	5
3773MH0007630031304314C00	4314	14017	6.73	–0.2	0.2	30.6	0.6	95	6
3773MH0007630031304315C00	4315	14041	6.58	–0.2	0.2	30.1	0.5	63	7
3773MH0007630031304316C00	4316	14065	6.44	–0.2	0.1	29.6	0.5	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

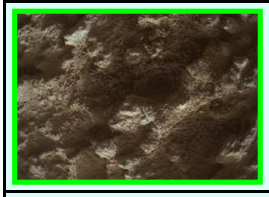
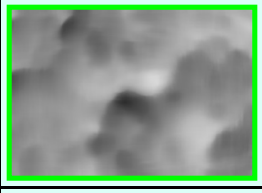
target San_Francisco_de_Yuruani – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0007630011304318C00			
BEST FOCUS IMAGE:	3774MH0007280001304437R00	4437	MOTOR COUNT:	13993	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3774MH0007280001304438S00	4438	ACQUIRED SEQUENCE:	mhli00763	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0007630031304320C00	4320	13897	7.57	-0.2	0.2	33.6	0.7	255	1
3773MH0007630031304321C00	4321	13921	7.39	-0.2	0.2	32.9	0.6	223	2
3773MH0007630031304322C00	4322	13945	7.22	-0.2	0.2	32.3	0.6	191	3
3773MH0007630031304323C00	4323	13969	7.05	-0.2	0.2	31.7	0.6	159	4
3773MH0007630031304324C00	4324	13993	6.89	-0.2	0.2	31.2	0.6	127	5
3773MH0007630031304325C00	4325	14017	6.73	-0.2	0.2	30.6	0.6	95	6
3773MH0007630031304326C00	4326	14041	6.58	-0.2	0.2	30.1	0.5	63	7
3773MH0007630031304327C00	4327	14065	6.44	-0.2	0.1	29.6	0.5	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

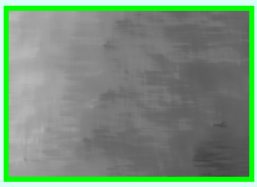
target San_Francisco_de_Yuruani – after DRT – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008350011304329C00			
BEST FOCUS IMAGE:	3774MH0007280001304435R00	4435	MOTOR COUNT:	15091	RANGE (cm):	2.9	
RANGE MAP PRODUCT:	3774MH0007280001304436S00	4436	ACQUIRED SEQUENCE:	mhli00835	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	30	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008350031304331C00	4331	14971	3.10	-0.1	0.1	17.8	0.2	255	1
3773MH0008350031304332C00	4332	15001	3.04	-0.1	0.1	17.6	0.2	223	2
3773MH0008350031304333C00	4333	15031	2.97	-0.1	0.1	17.4	0.2	191	3
3773MH0008350031304334C00	4334	15061	2.91	-0.1	0.1	17.1	0.2	159	4
3773MH0008350031304335C00	4335	15091	2.85	-0.1	0.1	16.9	0.2	127	5
3773MH0008350031304336C00	4336	15121	2.79	-0.1	0.1	16.7	0.2	95	6
3773MH0008350031304337C00	4337	15151	2.74	-0.1	0.1	16.5	0.2	63	7
3773MH0008350031304338C00	4338	15181	2.68	-0.1	0.1	16.3	0.2	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

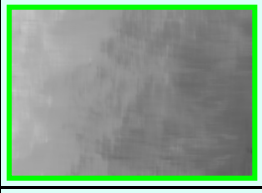
Santa_Elena_de_Uairen mosaic – transition from target San_Rafael to target San_Francisco_de_Yuruani – after DRT – mosaic position 1 of 8 – ~15 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008410011304340C00			
BEST FOCUS IMAGE:	3774MH0007280001304433R00	4433	MOTOR COUNT:	13273	RANGE (cm):	16.4	
RANGE MAP PRODUCT:	3774MH0007280001304434S00	4434	ACQUIRED SEQUENCE:	mhli00841	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008410021304341C00	4341	13201	18.43	-0.9	0.9	71.8	3.2	255	1
3773MH0008410021304342C00	4342	13219	17.87	-0.8	0.9	69.8	3.0	223	2
3773MH0008410021304343C00	4343	13237	17.34	-0.8	0.8	67.9	2.9	191	3
3773MH0008410021304344C00	4344	13255	16.84	-0.8	0.8	66.2	2.7	159	4
3773MH0008410021304345C00	4345	13273	16.36	-0.7	0.7	64.5	2.6	127	5
3773MH0008410021304346C00	4346	13291	15.90	-0.7	0.7	62.9	2.4	95	6
3773MH0008410021304347C00	4347	13309	15.47	-0.6	0.7	61.4	2.3	63	7
3773MH0008410021304348C00	4348	13327	15.05	-0.6	0.6	59.9	2.2	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

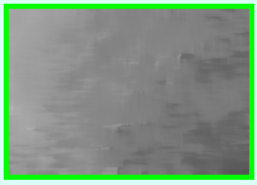
Santa_Elena_de_Uairen mosaic – transition from target San_Rafael to target San_Francisco_de_Yuruani – after DRT – mosaic position 2 of 8 – ~15 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008410011304350C00			
BEST FOCUS IMAGE:	3774MH0007280001304431R00	4431	MOTOR COUNT:	13248	RANGE (cm):	17.0	
RANGE MAP PRODUCT:	3774MH0007280001304432S00	4432	ACQUIRED SEQUENCE:	mhli00841	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008410021304351C00	4351	13176	19.26	-1.0	1.0	74.7	3.5	255	1
3773MH0008410021304352C00	4352	13194	18.65	-0.9	1.0	72.6	3.3	223	2
3773MH0008410021304353C00	4353	13212	18.08	-0.9	0.9	70.6	3.1	191	3
3773MH0008410021304354C00	4354	13230	17.54	-0.8	0.9	68.7	2.9	159	4
3773MH0008410021304355C00	4355	13248	17.03	-0.8	0.8	66.8	2.8	127	5
3773MH0008410021304356C00	4356	13266	16.54	-0.7	0.8	65.1	2.6	95	6
3773MH0008410021304357C00	4357	13284	16.08	-0.7	0.7	63.5	2.5	63	7
3773MH0008410021304358C00	4358	13302	15.64	-0.7	0.7	61.9	2.3	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

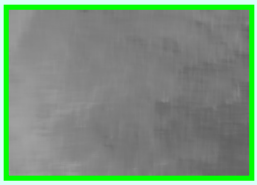
Santa_Elena_de_Uairen mosaic – transition from target San_Rafael to target San_Francisco_de_Yuruani – after DRT – mosaic position 3 of 8 – ~16 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008410011304360C00			
BEST FOCUS IMAGE:	3774MH0007280001304429R00	4429	MOTOR COUNT:	13215	RANGE (cm):	18.0	
RANGE MAP PRODUCT:	3774MH0007280001304430S00	4430	ACQUIRED SEQUENCE:	mhli00841	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008410021304361C00	4361	13143	20.45	-1.1	1.2	78.9	3.9	255	1
3773MH0008410021304362C00	4362	13161	19.78	-1.0	1.1	76.5	3.7	223	2
3773MH0008410021304363C00	4363	13179	19.15	-1.0	1.0	74.3	3.5	191	3
3773MH0008410021304364C00	4364	13197	18.56	-0.9	1.0	72.2	3.3	159	4
3773MH0008410021304365C00	4365	13215	17.99	-0.9	0.9	70.2	3.1	127	5
3773MH0008410021304366C00	4366	13233	17.46	-0.8	0.8	68.3	2.9	95	6
3773MH0008410021304367C00	4367	13251	16.95	-0.8	0.8	66.6	2.7	63	7
3773MH0008410021304368C00	4368	13269	16.46	-0.7	0.8	64.9	2.6	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

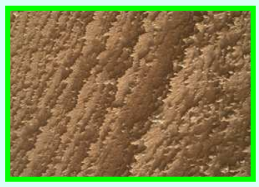
Santa_Elena_de_Uairen mosaic – transition from target San_Rafael to target San_Francisco_de_Yuruani – after DRT – mosaic position 4 of 8 – ~17 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008410011304370C00			
BEST FOCUS IMAGE:	3774MH0007280001304427R00	4427	MOTOR COUNT:	13194	RANGE (cm):	18.7	
RANGE MAP PRODUCT:	3774MH0007280001304428S00	4428	ACQUIRED SEQUENCE:	mhli00841	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008410021304371C00	4371	13122	21.28	-1.2	1.3	81.8	4.3	255	1
3773MH0008410021304372C00	4372	13140	20.57	-1.1	1.2	79.3	4.0	223	2
3773MH0008410021304373C00	4373	13158	19.89	-1.0	1.1	76.9	3.8	191	3
3773MH0008410021304374C00	4374	13176	19.26	-1.0	1.0	74.7	3.5	159	4
3773MH0008410021304375C00	4375	13194	18.65	-0.9	1.0	72.6	3.3	127	5
3773MH0008410021304376C00	4376	13212	18.08	-0.9	0.9	70.6	3.1	95	6
3773MH0008410021304377C00	4377	13230	17.54	-0.8	0.9	68.7	2.9	63	7
3773MH0008410021304378C00	4378	13248	17.03	-0.8	0.8	66.8	2.8	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




Santa_Elena_de_Uairen mosaic – transition from target San_Rafael to target San_Francisco_de_Yuruani – after DRT – mosaic position 5 of 8 – ~17 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008410011304380C00			
BEST FOCUS IMAGE:	3774MH0007280001304425R00	4425	MOTOR COUNT:	13185	RANGE (cm):	19.0	
RANGE MAP PRODUCT:	3774MH0007280001304426S00	4426	ACQUIRED SEQUENCE:	mhli00841	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008410021304381C00	4381	13113	21.66	-1.2	1.3	83.1	4.4	255	1
3773MH0008410021304382C00	4382	13131	20.92	-1.1	1.2	80.5	4.1	223	2
3773MH0008410021304383C00	4383	13149	20.22	-1.1	1.1	78.1	3.9	191	3
3773MH0008410021304384C00	4384	13167	19.57	-1.0	1.1	75.8	3.6	159	4
3773MH0008410021304385C00	4385	13185	18.95	-0.9	1.0	73.6	3.4	127	5
3773MH0008410021304386C00	4386	13203	18.36	-0.9	0.9	71.5	3.2	95	6
3773MH0008410021304387C00	4387	13221	17.81	-0.8	0.9	69.6	3.0	63	7
3773MH0008410021304388C00	4388	13239	17.28	-0.8	0.8	67.7	2.8	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




Santa_Elena_de_Uairen mosaic – transition from target San_Rafael to target San_Francisco_de_Yuruani – after DRT – mosaic position 6 of 8 – ~17 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008410011304390C00			
BEST FOCUS IMAGE:	3774MH0007280001304423R00	4423	MOTOR COUNT:	13185	RANGE (cm):	19.0	
RANGE MAP PRODUCT:	3774MH0007280001304424S00	4424	ACQUIRED SEQUENCE:	mhli00841	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008410021304391C00	4391	13113	21.66	-1.2	1.3	83.1	4.4	255	1
3773MH0008410021304392C00	4392	13131	20.92	-1.1	1.2	80.5	4.1	223	2
3773MH0008410021304393C00	4393	13149	20.22	-1.1	1.1	78.1	3.9	191	3
3773MH0008410021304394C00	4394	13167	19.57	-1.0	1.1	75.8	3.6	159	4
3773MH0008410021304395C00	4395	13185	18.95	-0.9	1.0	73.6	3.4	127	5
3773MH0008410021304396C00	4396	13203	18.36	-0.9	0.9	71.5	3.2	95	6
3773MH0008410021304397C00	4397	13221	17.81	-0.8	0.9	69.6	3.0	63	7
3773MH0008410021304398C00	4398	13239	17.28	-0.8	0.8	67.7	2.8	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION




Santa_Elena_de_Uairen mosaic – transition from target San_Rafael to target San_Francisco_de_Yuruani – after DRT – mosaic position 7 of 8 – ~17 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008410011304400C00			
BEST FOCUS IMAGE:	3774MH0007280001304421R00	4421	MOTOR COUNT:	13202	RANGE (cm):	18.4	
RANGE MAP PRODUCT:	3774MH0007280001304422S00	4422	ACQUIRED SEQUENCE:	mhli00841	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008410021304401C00	4401	13130	20.96	-1.1	1.2	80.7	4.1	255	1
3773MH0008410021304402C00	4402	13148	20.26	-1.1	1.1	78.2	3.9	223	2
3773MH0008410021304403C00	4403	13166	19.60	-1.0	1.1	75.9	3.6	191	3
3773MH0008410021304404C00	4404	13184	18.98	-0.9	1.0	73.7	3.4	159	4
3773MH0008410021304405C00	4405	13202	18.40	-0.9	0.9	71.7	3.2	127	5
3773MH0008410021304406C00	4406	13220	17.84	-0.8	0.9	69.7	3.0	95	6
3773MH0008410021304407C00	4407	13238	17.31	-0.8	0.8	67.8	2.9	63	7
3773MH0008410021304408C00	4408	13256	16.81	-0.8	0.8	66.1	2.7	31	8

UPDATED: 19_September_2023

SOL 3773 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



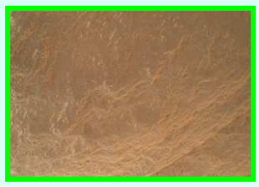

Santa_Elena_de_Uairen mosaic – transition from target San_Rafael to target San_Francisco_de_Yuruani – after DRT – mosaic position 8 of 8 – ~16 cm standoff

		CDPID	CORRESPONDING FRAME:	3773MH0008410011304410C00			
BEST FOCUS IMAGE:	3774MH0007280001304419R00	4419	MOTOR COUNT:	13225	RANGE (cm):	17.7	
RANGE MAP PRODUCT:	3774MH0007280001304420S00	4420	ACQUIRED SEQUENCE:	mhli00841	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	19-Mar-23		MERGE SEQUENCE:	mhli00728	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3773	FOCUS MERGED ON SOL:	3774		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3773MH0008410021304411C00	4411	13153	20.08	-1.1	1.1	77.6	3.8	255	1
3773MH0008410021304412C00	4412	13171	19.43	-1.0	1.0	75.3	3.6	223	2
3773MH0008410021304413C00	4413	13189	18.82	-0.9	1.0	73.1	3.4	191	3
3773MH0008410021304414C00	4414	13207	18.24	-0.9	0.9	71.1	3.2	159	4
3773MH0008410021304415C00	4415	13225	17.69	-0.8	0.9	69.2	3.0	127	5
3773MH0008410021304416C00	4416	13243	17.17	-0.8	0.8	67.3	2.8	95	6
3773MH0008410021304417C00	4417	13261	16.68	-0.7	0.8	65.6	2.7	63	7
3773MH0008410021304418C00	4418	13279	16.20	-0.7	0.7	63.9	2.5	31	8

UPDATED: 19_September_2023

SOL 3776 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



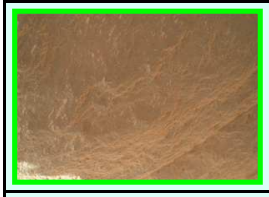
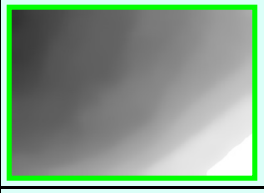

target Rio_Urubu – stereo-1 – ~55 mm standoff

		CDPID	CORRESPONDING FRAME:	3776MH0003080011304450C00			
BEST FOCUS IMAGE:	3776MH0001930001304483R00	4483	MOTOR COUNT:	13933	RANGE (cm):	7.3	
RANGE MAP PRODUCT:	3776MH0001930001304484S00	4484	ACQUIRED SEQUENCE:	mhli00308	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	21-Mar-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	66	ACQUIRED ON SOL:	3776	FOCUS MERGED ON SOL:	3776		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3776MH0003080021304451C00	4451	13669	9.66	-0.3	0.3	40.9	1.0	255	1
3776MH0003080021304452C00	4452	13735	8.98	-0.3	0.2	38.5	0.9	223	2
3776MH0003080021304453C00	4453	13801	8.36	-0.2	0.2	36.3	0.8	191	3
3776MH0003080021304454C00	4454	13867	7.81	-0.2	0.2	34.4	0.7	159	4
3776MH0003080021304455C00	4455	13933	7.31	-0.2	0.2	32.6	0.6	127	5
3776MH0003080021304456C00	4456	13999	6.85	-0.2	0.2	31.0	0.6	95	6
3776MH0003080021304457C00	4457	14065	6.44	-0.2	0.1	29.6	0.5	63	7
3776MH0003080021304458C00	4458	14131	6.06	-0.1	0.1	28.2	0.5	31	8

UPDATED: 19_September_2023

SOL 3776 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

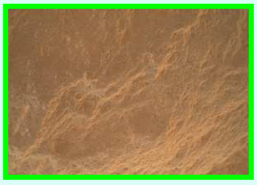
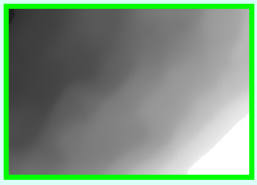
target Rio_Urubu – stereo-2 – ~55 mm standoff

		CDPID	CORRESPONDING FRAME:	3776MH0003080011304460C00			
BEST FOCUS IMAGE:	3776MH0001930001304481R00	4481	MOTOR COUNT:	13937	RANGE (cm):	7.3	
RANGE MAP PRODUCT:	3776MH0001930001304482S00	4482	ACQUIRED SEQUENCE:	mhli00308	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	21-Mar-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	66	ACQUIRED ON SOL:	3776	FOCUS MERGED ON SOL:	3776		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3776MH0003080021304461C00	4461	13673	9.62	-0.3	0.3	40.8	1.0	255	1
3776MH0003080021304462C00	4462	13739	8.94	-0.3	0.2	38.4	0.9	223	2
3776MH0003080021304463C00	4463	13805	8.32	-0.2	0.2	36.2	0.8	191	3
3776MH0003080021304464C00	4464	13871	7.77	-0.2	0.2	34.3	0.7	159	4
3776MH0003080021304465C00	4465	13937	7.28	-0.2	0.2	32.5	0.6	127	5
3776MH0003080021304466C00	4466	14003	6.82	-0.2	0.2	30.9	0.6	95	6
3776MH0003080021304467C00	4467	14069	6.41	-0.2	0.1	29.5	0.5	63	7
3776MH0003080021304468C00	4468	14135	6.03	-0.1	0.1	28.1	0.5	31	8

UPDATED: 19_September_2023

SOL 3776 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Rio_Urubu – ~25 mm standoff

		CDPID	CORRESPONDING FRAME:	3776MH0004280011304470C00			
BEST FOCUS IMAGE:	3776MH0001930001304479R00	4479	MOTOR COUNT:	14535	RANGE (cm):	4.3	
RANGE MAP PRODUCT:	3776MH0001930001304480S00	4480	ACQUIRED SEQUENCE:	mhli00428	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	21-Mar-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	78	ACQUIRED ON SOL:	3776	FOCUS MERGED ON SOL:	3776		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3776MH0004280021304471C00	4471	14223	5.58	-0.1	0.1	26.5	0.4	255	1
3776MH0004280021304472C00	4472	14301	5.21	-0.1	0.1	25.3	0.4	223	2
3776MH0004280021304473C00	4473	14379	4.88	-0.1	0.1	24.1	0.4	191	3
3776MH0004280021304474C00	4474	14457	4.58	-0.1	0.1	23.0	0.3	159	4
3776MH0004280021304475C00	4475	14535	4.30	-0.1	0.1	22.0	0.3	127	5
3776MH0004280021304476C00	4476	14613	4.05	-0.1	0.1	21.1	0.3	95	6
3776MH0004280021304477C00	4477	14691	3.81	-0.1	0.1	20.3	0.3	63	7
3776MH0004280021304478C00	4478	14769	3.59	-0.1	0.1	19.5	0.3	31	8

UPDATED: 19_September_2023

SOL 3778 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION



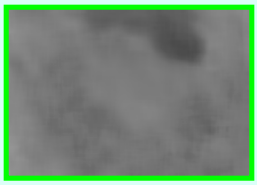

target Marabitana – after DRT – stereo-1 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3778MH0001680011304491C00			
BEST FOCUS IMAGE:	3778MH0001930001304524R00	4524	MOTOR COUNT:	13998	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3778MH0001930001304525S00	4525	ACQUIRED SEQUENCE:	mhli00168	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	24-Mar-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3778	FOCUS MERGED ON SOL:	3778		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3778MH0001680021304492C00	4492	13926	7.36	-0.2	0.2	32.8	0.6	255	1
3778MH0001680021304493C00	4493	13944	7.23	-0.2	0.2	32.3	0.6	223	2
3778MH0001680021304494C00	4494	13962	7.10	-0.2	0.2	31.9	0.6	191	3
3778MH0001680021304495C00	4495	13980	6.98	-0.2	0.2	31.5	0.6	159	4
3778MH0001680021304496C00	4496	13998	6.86	-0.2	0.2	31.0	0.6	127	5
3778MH0001680021304497C00	4497	14016	6.74	-0.2	0.2	30.6	0.6	95	6
3778MH0001680021304498C00	4498	14034	6.63	-0.2	0.2	30.2	0.6	63	7
3778MH0001680021304499C00	4499	14052	6.51	-0.2	0.1	29.8	0.5	31	8

UPDATED: 19_September_2023

SOL 3778 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

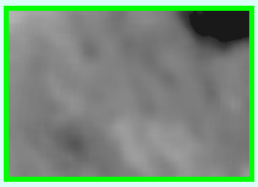
target Marabitana – after DRT – stereo-2 – ~5 cm standoff

		CDPID	CORRESPONDING FRAME:	3778MH0001680011304501C00			
BEST FOCUS IMAGE:	3778MH0001930001304522R00	4522	MOTOR COUNT:	13999	RANGE (cm):	6.9	
RANGE MAP PRODUCT:	3778MH0001930001304523S00	4523	ACQUIRED SEQUENCE:	mhli00168	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	24-Mar-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	18	ACQUIRED ON SOL:	3778	FOCUS MERGED ON SOL:	3778		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3778MH0001680021304502C00	4502	13927	7.35	-0.2	0.2	32.8	0.6	255	1
3778MH0001680021304503C00	4503	13945	7.22	-0.2	0.2	32.3	0.6	223	2
3778MH0001680021304504C00	4504	13963	7.09	-0.2	0.2	31.9	0.6	191	3
3778MH0001680021304505C00	4505	13981	6.97	-0.2	0.2	31.4	0.6	159	4
3778MH0001680021304506C00	4506	13999	6.85	-0.2	0.2	31.0	0.6	127	5
3778MH0001680021304507C00	4507	14017	6.73	-0.2	0.2	30.6	0.6	95	6
3778MH0001680021304508C00	4508	14035	6.62	-0.2	0.2	30.2	0.6	63	7
3778MH0001680021304509C00	4509	14053	6.51	-0.2	0.1	29.8	0.5	31	8

UPDATED: 19_September_2023

SOL 3778 – MAHLI ONBOARD FOCUS MERGE PRODUCT INFORMATION

target Marabitana – after DRT – ~1 cm standoff

		CDPID	CORRESPONDING FRAME:	3778MH0008480011304511C00			
BEST FOCUS IMAGE:	3778MH0001930001304520R00	4520	MOTOR COUNT:	15117	RANGE (cm):	2.8	
RANGE MAP PRODUCT:	3778MH0001930001304521S00	4521	ACQUIRED SEQUENCE:	mhli00848	STACK TYPE:	RELATIVE	
ACQUIRED ON DATE:	24-Mar-23		MERGE SEQUENCE:	mhli00193	MERGE TYPE:	BASIC	
MOTOR COUNT INTERVAL:	24	ACQUIRED ON SOL:	3778	FOCUS MERGED ON SOL:	3778		

INDIVIDUAL FOCUS STACK IMAGES	CDPID	MOTOR COUNT	RANGE (cm)	RANGE UNCERTAINTY (cm)		PIXEL SCALE (µm/pixel)	PIXEL SCALE UNCERTAINTY (µm/pixel)	DN IN RANGE MAP	IMAGE N OF 8
				NEAR	FAR				
3778MH0008480021304512C00	4512	15021	2.99	-0.1	0.1	17.4	0.2	255	1
3778MH0008480021304513C00	4513	15045	2.94	-0.1	0.1	17.3	0.2	223	2
3778MH0008480021304514C00	4514	15069	2.90	-0.1	0.1	17.1	0.2	191	3
3778MH0008480021304515C00	4515	15093	2.85	-0.1	0.1	16.9	0.2	159	4
3778MH0008480021304516C00	4516	15117	2.80	-0.1	0.1	16.8	0.2	127	5
3778MH0008480021304517C00	4517	15141	2.76	-0.1	0.1	16.6	0.2	95	6
3778MH0008480021304518C00	4518	15165	2.71	-0.1	0.1	16.4	0.2	63	7
3778MH0008480021304519C00	4519	15189	2.67	-0.1	0.1	16.3	0.2	31	8

6 Image comment, purpose, RATIONALE_DESC

A RATIONALE_DESC accompanies each MAHLI image and each focus merge product archived with the NASA PDS. It is found in in each archived image label file (.LBL).

The RATIONALE_DESC is a text description of the purpose (rationale) behind the acquisition of each MAHLI parent image.

For onboard focus merge products, the RATIONALE_DESC includes information regarding when the merge was performed and which parent images were merged. This information is not automatically tracked by the instrument or ground data system and thus requires human intervention; this is the only pathway by which this information is conveyed to the data user through the NASA PDS archival products.

The MAHLI Team drafts each RATIONALE_DESC as the data are acquired and returned to Earth. Final editing of each RATIONALE_DESC is performed a few months before the data are archived with the NASA PDS. In some cases, an error might be detected in a RATIONALE_DESC some time after the data are first archived; in such a case, the corrections are made in a later release of MAHLI data to the PDS (as long as the mission continues and funding is available to do so).

The pages that follow capture the RATIONALE_DESC for each MAHLI image acquired and lists the ID for the best available image or focus merge product returned to Earth. Note that the RATIONALE_DESC also applies to any other child images spawned by a given parent image and thus there might be additional images, not listed here, that correspond to a given RATIONALE_DESC. In some cases, it was only necessary to return a thumbnail image; the IDs for these are given in orange text. As noted earlier, purple text indicates Image IDs for which the last two characters might differ from those in the NASA PDS archives.

Note that the text on the pages that follow is tiny. We highly recommend that the reader view this document electronically (*i.e.*, PDF file on a computer screen) and magnify the view ≥ 400%.

The *MAHLI Image Comment Sheets* that follow include data acquired Sol 3645–3778. During this period, the instrument obtained images and/or performed focus merges on **Sols 3645, 3646, 3648, 3650, 3651, 3657, 3658, 3664, 3665, 3667, 3669, 3671, 3672, 3674, 3676, 3677, 3682, 3684, 3685, 3687, 3688, 3689, 3690, 3699, 3700, 3702, 3703, 3705, 3706, 3708, 3712, 3714, 3715, 3716, 3718, 3721, 3723, 3724, 3725, 3727, 3728, 3730, 3732, 3733, 3735, 3737, 3739, 3742, 3744, 3746, 3748, 3749, 3750, 3752, 3767, 3769, 3770, 3771, 3773, 3774, 3776, 3778**.

updated: 07_November_2022

Sol 3645 - MAHLI Images

acquired/performed date(s):	7-Nov-22
camera positions:	0
total parent images:	0
focus merges performed:	19
total focus merge products:	38
total parent images + focus merge products:	38

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3644 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789 012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
mhli00153	Focus Merges	3645MH0001530001301762R00	1762	target Mocra - APXS spot 1 - standoff near 55 mm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1754-1761 - best focus image product
		3645MH0001530001301763S00	1763	target Mocra - APXS spot 1 - standoff near 55 mm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1754-1761 - range map product
		3645MH0001530001301764R00	1764	target Mocra - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1744-1751 - best focus image product
		3645MH0001530001301765S00	1765	target Mocra - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1744-1751 - range map product
		3645MH0001530001301766R00	1766	target Mocra - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1734-1741 - best focus image product
		3645MH0001530001301767S00	1767	target Mocra - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1734-1741 - range map product
		3645MH0001530001301768R00	1768	target Mocra - APXS spot 2 - stereo-1 - standoff near 55 mm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1724-1731 - best focus image product
		3645MH0001530001301769S00	1769	target Mocra - APXS spot 2 - stereo-1 - standoff near 55 mm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1724-1731 - range map product
mhli00857	Focus Merges	3645MH0008570001301770R00	1770	target Mixiguana - standoff near 5 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1712-1719 - best focus image product
		3645MH0008570001301771S00	1771	target Mixiguana - standoff near 5 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1712-1719 - range map product
		3645MH0008570001301772R00	1772	target Mixiguana - mosaic position 12 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1702-1709 - best focus image product
		3645MH0008570001301773S00	1773	target Mixiguana - mosaic position 12 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1702-1709 - range map product
		3645MH0008570001301774R00	1774	target Mixiguana - mosaic position 11 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1692-1699 - best focus image product
		3645MH0008570001301775S00	1775	target Mixiguana - mosaic position 11 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1692-1699 - range map product
		3645MH0008570001301776R00	1776	target Mixiguana - mosaic position 10 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1682-1689 - best focus image product
		3645MH0008570001301777S00	1777	target Mixiguana - mosaic position 10 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1682-1689 - range map product
		3645MH0008570001301778R00	1778	target Mixiguana - mosaic position 9 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1672-1679 - best focus image product
		3645MH0008570001301779S00	1779	target Mixiguana - mosaic position 9 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1672-1679 - range map product
		3645MH0008570001301780R00	1780	target Mixiguana - mosaic position 8 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1662-1669 - best focus image product
		3645MH0008570001301781S00	1781	target Mixiguana - mosaic position 8 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1662-1669 - range map product
		3645MH0008570001301782R00	1782	target Mixiguana - mosaic position 7 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1652-1659 - best focus image product
		3645MH0008570001301783S00	1783	target Mixiguana - mosaic position 7 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1652-1659 - range map product
		3645MH0008570001301784R00	1784	target Mixiguana - mosaic position 6 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1642-1649 - best focus image product
		3645MH0008570001301785S00	1785	target Mixiguana - mosaic position 6 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1642-1649 - range map product
		3645MH0008570001301786R00	1786	target Mixiguana - mosaic position 5 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1632-1639 - range map product
		3645MH0008570001301787S00	1787	target Mixiguana - mosaic position 5 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1632-1639 - range map product
		3645MH0008570001301788R00	1788	target Mixiguana - mosaic position 4 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1622-1629 - best focus image product
		3645MH0008570001301789S00	1789	target Mixiguana - mosaic position 4 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1622-1629 - range map product
		3645MH0008570001301790R00	1790	target Mixiguana - mosaic position 3 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1612-1619 - best focus image product
		3645MH0008570001301791S00	1791	target Mixiguana - mosaic position 3 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1612-1619 - range map product
		3645MH0008570001301792R00	1792	target Mixiguana - mosaic position 2 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1602-1609 - best focus image product
		3645MH0008570001301793S00	1793	target Mixiguana - mosaic position 2 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1602-1609 - range map product
		3645MH0008570001301794R00	1794	target Mixiguana - mosaic position 1 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1592-1599 - best focus image product
		3645MH0008570001301795S00	1795	target Mixiguana - mosaic position 1 of 12 - standoff between 11 cm and 14 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1592-1599 - range map product
		3645MH0008570001301796R00	1796	target Mixiguana - stereo-2 - standoff near 24 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1582-1589 - best focus image product
		3645MH0008570001301797S00	1797	target Mixiguana - stereo-2 - standoff near 24 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1582-1589 - range map product
		3645MH0008570001301798R00	1798	target Mixiguana - stereo-1 - standoff near 23 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1572-1579 - best focus image product
		3645MH0008570001301799S00	1799	target Mixiguana - stereo-1 - standoff near 23 cm - focus stack acquired sol 3644 with MSL CAMERA_PRODUCT_IDs 1572-1579 - range map product

updated: 28_September_2023

Sol 3646 - MAHLI Images

acquired/performed date(s):	8-Nov-22
camera positions:	6
total parent images:	50
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	58

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Acara and Ixi. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Acara ~23 cm standoff	3646MH0007060001301800C00	1800	autofocus sub-frame for target Acara - standoff near 23 cm
		3646MH0007060011301801C00	1801	target Acara - standoff near 23 cm
		3646MH0007060021301802C00	1802	target Acara - standoff near 23 cm - alternative auto-exposure
mhli00858	Acara stereo-1 ~85 mm standoff	3646MH0008580001301803C00	1803	autofocus sub-frame for target Acara - stereo-1 - standoff near 85 mm
		3646MH0008580011301804C00	1804	target Acara - stereo-1 - standoff near 85 mm
		3646MH0008580021301805C00	1805	target Acara - stereo-1 - standoff near 85 mm - alternative auto-exposure
		3646MH0008580031301806C00	1806	target Acara - stereo-1 - standoff near 85 mm - image 1 in 8-image relative focus stack
		3646MH0008580031301807C00	1807	target Acara - stereo-1 - standoff near 85 mm - image 2 in 8-image relative focus stack
		3646MH0008580031301808C00	1808	target Acara - stereo-1 - standoff near 85 mm - image 3 in 8-image relative focus stack
		3646MH0008580031301809C00	1809	target Acara - stereo-1 - standoff near 85 mm - image 4 in 8-image relative focus stack
		3646MH0008580031301810C00	1810	target Acara - stereo-1 - standoff near 85 mm - image 5 in 8-image relative focus stack
		3646MH0008580031301811C00	1811	target Acara - stereo-1 - standoff near 85 mm - image 6 in 8-image relative focus stack
		3646MH0008580031301812C00	1812	target Acara - stereo-1 - standoff near 85 mm - image 7 in 8-image relative focus stack
		3646MH0008580031301813C00	1813	target Acara - stereo-1 - standoff near 85 mm - image 8 in 8-image relative focus stack
mhli00858	Acara stereo-2 ~85 mm standoff	3646MH0008580001301814C00	1814	autofocus sub-frame for target Acara - stereo-2 - standoff near 85 mm
		3646MH0008580011301815C00	1815	target Acara - stereo-2 - standoff near 85 mm
		3646MH0008580021301816C00	1816	target Acara - stereo-2 - standoff near 85 mm - alternative auto-exposure
		3646MH0008580031301817C00	1817	target Acara - stereo-2 - standoff near 85 mm - image 1 in 8-image relative focus stack
		3646MH0008580031301818C00	1818	target Acara - stereo-2 - standoff near 85 mm - image 2 in 8-image relative focus stack
		3646MH0008580031301819C00	1819	target Acara - stereo-2 - standoff near 85 mm - image 3 in 8-image relative focus stack
		3646MH0008580031301820C00	1820	target Acara - stereo-2 - standoff near 85 mm - image 4 in 8-image relative focus stack
		3646MH0008580031301821C00	1821	target Acara - stereo-2 - standoff near 85 mm - image 5 in 8-image relative focus stack
		3646MH0008580031301822C00	1822	target Acara - stereo-2 - standoff near 85 mm - image 6 in 8-image relative focus stack
		3646MH0008580031301823C00	1823	target Acara - stereo-2 - standoff near 85 mm - image 7 in 8-image relative focus stack
		3646MH0008580031301824C00	1824	target Acara - stereo-2 - standoff near 85 mm - image 8 in 8-image relative focus stack
mhli00706	Ixi ~24 cm standoff	3646MH0007060001301825C00	1825	autofocus sub-frame for target Ixi - standoff near 24 cm
		3646MH0007060011301826C00	1826	target Ixi - standoff near 24 cm
		3646MH0007060021301827C00	1827	target Ixi - standoff near 24 cm - alternative auto-exposure
mhli00852	Ixi stereo-1 ~9 cm standoff	3646MH0008520001301828C00	1828	autofocus sub-frame for target Ixi - stereo-1 - standoff near 9 cm
		3646MH0008520011301829C00	1829	target Ixi - stereo-1 - standoff near 9 cm
		3646MH0008520021301830C00	1830	target Ixi - stereo-1 - standoff near 9 cm - alternative auto-exposure
		3646MH0008520031301831C00	1831	target Ixi - stereo-1 - standoff near 9 cm - image 1 in 8-image relative focus stack
		3646MH0008520031301832C00	1832	target Ixi - stereo-1 - standoff near 9 cm - image 2 in 8-image relative focus stack
		3646MH0008520031301833C00	1833	target Ixi - stereo-1 - standoff near 9 cm - image 3 in 8-image relative focus stack
		3646MH0008520031301834C00	1834	target Ixi - stereo-1 - standoff near 9 cm - image 4 in 8-image relative focus stack
		3646MH0008520031301835C00	1835	target Ixi - stereo-1 - standoff near 9 cm - image 5 in 8-image relative focus stack
		3646MH0008520031301836C00	1836	target Ixi - stereo-1 - standoff near 9 cm - image 6 in 8-image relative focus stack
		3646MH0008520031301837C00	1837	target Ixi - stereo-1 - standoff near 9 cm - image 7 in 8-image relative focus stack
		3646MH0008520031301838C00	1838	target Ixi - stereo-1 - standoff near 9 cm - image 8 in 8-image relative focus stack
mhli00852	Ixi stereo-2 ~9 cm standoff	3646MH0008520001301839C00	1839	autofocus sub-frame for target Ixi - stereo-2 - standoff near 9 cm
		3646MH0008520011301840C00	1840	target Ixi - stereo-2 - standoff near 9 cm
		3646MH0008520021301841C00	1841	target Ixi - stereo-2 - standoff near 9 cm - alternative auto-exposure
		3646MH0008520031301842C00	1842	target Ixi - stereo-2 - standoff near 9 cm - image 1 in 8-image relative focus stack
		3646MH0008520031301843C00	1843	target Ixi - stereo-2 - standoff near 9 cm - image 2 in 8-image relative focus stack
		3646MH0008520031301844C00	1844	target Ixi - stereo-2 - standoff near 9 cm - image 3 in 8-image relative focus stack
		3646MH0008520031301845C00	1845	target Ixi - stereo-2 - standoff near 9 cm - image 4 in 8-image relative focus stack
		3646MH0008520031301846C00	1846	target Ixi - stereo-2 - standoff near 9 cm - image 5 in 8-image relative focus stack
		3646MH0008520031301847C00	1847	target Ixi - stereo-2 - standoff near 9 cm - image 6 in 8-image relative focus stack
		3646MH0008520031301848C00	1848	target Ixi - stereo-2 - standoff near 9 cm - image 7 in 8-image relative focus stack
		3646MH0008520031301849C00	1849	target Ixi - stereo-2 - standoff near 9 cm - image 8 in 8-image relative focus stack
mhli00153	Focus Merges	3646MH0001530001301850R00	1850	target Ixi - stereo-2 - standoff near 9 cm - focus stack acquired sol 3646 with MSL CAMERA_PRODUCT_IDs 1842-1849 - best focus image product
		3646MH0001530001301851S00	1851	target Ixi - stereo-2 - standoff near 9 cm - focus stack acquired sol 3646 with MSL CAMERA_PRODUCT_IDs 1842-1849 - range map product
		3646MH0001530001301852R00	1852	target Ixi - stereo-1 - standoff near 9 cm - focus stack acquired sol 3646 with MSL CAMERA_PRODUCT_IDs 1831-1838 - best focus image product
		3646MH0001530001301853S00	1853	target Ixi - stereo-1 - standoff near 9 cm - focus stack acquired sol 3646 with MSL CAMERA_PRODUCT_IDs 1831-1838 - range map product
		3646MH0001530001301854R00	1854	target Acara - stereo-2 - standoff near 85 mm - focus stack acquired sol 3646 with MSL CAMERA_PRODUCT_IDs 1817-1824 - best focus image product
		3646MH0001530001301855S00	1855	target Acara - stereo-2 - standoff near 85 mm - focus stack acquired sol 3646 with MSL CAMERA_PRODUCT_IDs 1817-1824 - range map product
		3646MH0001530001301856R00	1856	target Acara - stereo-1 - standoff near 85 mm - focus stack acquired sol 3646 with MSL CAMERA_PRODUCT_IDs 1806-1813 - best focus image product
		3646MH0001530001301857S00	1857	target Acara - stereo-1 - standoff near 85 mm - focus stack acquired sol 3646 with MSL CAMERA_PRODUCT_IDs 1806-1813 - range map product

updated: 05_December_2022

Sol 3648 - MAHLI Images

acquired/performed date(s):	10-Nov-22
camera positions:	7
total parent images:	61
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	71

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Cana and the target Dalbana. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Cana after DRT ~24 cm standoff	3648MH0007060001301858C00	1858	autofocus sub-frame for target Cana - after dust removal tool (DRT) - standoff near 24 cm
		3648MH0007060011301859C00	1859	target Cana - after dust removal tool (DRT) - standoff near 24 cm
		3648MH0007060021301860C00	1860	target Cana - after dust removal tool (DRT) - standoff near 24 cm - alternative auto-exposure
mhli00699	Cana after DRT stereo-1 ~45 mm standoff	3648MH0006990001301861C00	1861	autofocus sub-frame for target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm
		3648MH0006990011301862C00	1862	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm
		3648MH0006990021301863C00	1863	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - alternative auto-exposure
		3648MH0006990031301864C00	1864	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3648MH0006990031301865C00	1865	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3648MH0006990031301866C00	1866	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3648MH0006990031301867C00	1867	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3648MH0006990031301868C00	1868	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3648MH0006990031301869C00	1869	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3648MH0006990031301870C00	1870	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3648MH0006990031301871C00	1871	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00699	Cana after DRT stereo-2 ~45 mm standoff	3648MH0006990001301872C00	1872	autofocus sub-frame for target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm
		3648MH0006990011301873C00	1873	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm
		3648MH0006990021301874C00	1874	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - alternative auto-exposure
		3648MH0006990031301875C00	1875	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3648MH0006990031301876C00	1876	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3648MH0006990031301877C00	1877	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3648MH0006990031301878C00	1878	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3648MH0006990031301879C00	1879	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3648MH0006990031301880C00	1880	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3648MH0006990031301881C00	1881	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3648MH0006990031301882C00	1882	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00823	Cana after DRT ~2 mm standoff	3648MH0008230001301883C00	1883	autofocus sub-frame for target Cana - after dust removal tool (DRT) - standoff near 2 mm
		3648MH0008230011301884C00	1884	target Cana - after dust removal tool (DRT) - standoff near 2 mm
		3648MH0008230021301885C00	1885	target Cana - after dust removal tool (DRT) - standoff near 2 mm - alternative auto-exposure
		3648MH0008230031301886C00	1886	target Cana - after dust removal tool (DRT) - standoff near 2 mm - image 1 in 8-image relative focus stack
		3648MH0008230031301887C00	1887	target Cana - after dust removal tool (DRT) - standoff near 2 mm - image 2 in 8-image relative focus stack
		3648MH0008230031301888C00	1888	target Cana - after dust removal tool (DRT) - standoff near 2 mm - image 3 in 8-image relative focus stack
		3648MH0008230031301889C00	1889	target Cana - after dust removal tool (DRT) - standoff near 2 mm - image 4 in 8-image relative focus stack
		3648MH0008230031301890C00	1890	target Cana - after dust removal tool (DRT) - standoff near 2 mm - image 5 in 8-image relative focus stack
		3648MH0008230031301891C00	1891	target Cana - after dust removal tool (DRT) - standoff near 2 mm - image 6 in 8-image relative focus stack
		3648MH0008230031301892C00	1892	target Cana - after dust removal tool (DRT) - standoff near 2 mm - image 7 in 8-image relative focus stack
		3648MH0008230031301893C00	1893	target Cana - after dust removal tool (DRT) - standoff near 2 mm - image 8 in 8-image relative focus stack
mhli00706	Dalbana ~24 cm standoff	3648MH0007060001301894C00	1894	autofocus sub-frame for target Dalbana - standoff near 24 cm
		3648MH0007060011301895C00	1895	target Dalbana - standoff near 24 cm
		3648MH0007060021301896C00	1896	target Dalbana - standoff near 24 cm - alternative auto-exposure
mhli00721	Dalbana stereo-1 ~4 cm standoff	3648MH0007210001301897C00	1897	autofocus sub-frame for target Dalbana - stereo-1 - standoff near 4 cm
		3648MH0007210011301898C00	1898	target Dalbana - stereo-1 - standoff near 4 cm
		3648MH0007210021301899C00	1899	target Dalbana - stereo-1 - standoff near 4 cm - alternative auto-exposure
		3648MH0007210031301900C00	1900	target Dalbana - stereo-1 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3648MH0007210031301901C00	1901	target Dalbana - stereo-1 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3648MH0007210031301902C00	1902	target Dalbana - stereo-1 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3648MH0007210031301903C00	1903	target Dalbana - stereo-1 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3648MH0007210031301904C00	1904	target Dalbana - stereo-1 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3648MH0007210031301905C00	1905	target Dalbana - stereo-1 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3648MH0007210031301906C00	1906	target Dalbana - stereo-1 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3648MH0007210031301907C00	1907	target Dalbana - stereo-1 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00721	Dalbana stereo-2 ~4 cm standoff	3648MH0007210001301908C00	1908	autofocus sub-frame for target Dalbana - stereo-2 - standoff near 4 cm
		3648MH0007210011301909C00	1909	target Dalbana - stereo-2 - standoff near 4 cm
		3648MH0007210021301910C00	1910	target Dalbana - stereo-2 - standoff near 4 cm - alternative auto-exposure
		3648MH0007210031301911C00	1911	target Dalbana - stereo-2 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3648MH0007210031301912C00	1912	target Dalbana - stereo-2 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3648MH0007210031301913C00	1913	target Dalbana - stereo-2 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3648MH0007210031301914C00	1914	target Dalbana - stereo-2 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3648MH0007210031301915C00	1915	target Dalbana - stereo-2 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3648MH0007210031301916C00	1916	target Dalbana - stereo-2 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3648MH0007210031301917C00	1917	target Dalbana - stereo-2 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3648MH0007210031301918C00	1918	target Dalbana - stereo-2 - standoff near 4 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00227	Focus Merges	3648MH0002270001301919R00	1919	target Dalbana - stereo-2 - standoff near 4 cm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1911-1918 - best focus image product
		3648MH0002270001301920S00	1920	target Dalbana - stereo-2 - standoff near 4 cm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1911-1918 - range map product
		3648MH0002270001301921R00	1921	target Dalbana - stereo-1 - standoff near 4 cm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1900-1907 - best focus image product
		3648MH0002270001301922S00	1922	target Dalbana - stereo-1 - standoff near 4 cm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1900-1907 - range map product
		3648MH0002270001301923R00	1923	target Cana - after dust removal tool (DRT) - standoff near 2 mm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1886-1893 - best focus image product
		3648MH0002270001301924S00	1924	target Cana - after dust removal tool (DRT) - standoff near 2 mm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1886-1893 - range map product
		3648MH0002270001301925R00	1925	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1875-1882 - best focus image product
		3648MH0002270001301926S00	1926	target Cana - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1875-1882 - range map product
		3648MH0002270001301927R00	1927	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1864-1871 - best focus image product
		3648MH0002270001301928S00	1928	target Cana - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - focus stack acquired sol 3648 with MSL CAMERA_PRODUCT_IDs 1864-1871 - range map product

updated: 05_December_2022

Sol 3650 - MAHLI Images

acquired/performed date(s):	12-Nov-22
camera positions:	12
total parent images:	84
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	84

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Jutai and the DRT-brushed Raposa.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Jutai ~24 cm standoff	3650MH0001900001301929C00	1929	autofocus sub-frame for target Jutai - APXS spot 2 - standoff near 24 cm
		3650MH0001900011301930C00	1930	target Jutai - APXS spot 2 - standoff near 24 cm
mhli00182	Jutai APXS spot 2 stereo-1 ~5 cm standoff	3650MH0001820001301931C00	1931	autofocus sub-frame for target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm
		3650MH0001820011301932C00	1932	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm
		3650MH0001820021301933C00	1933	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3650MH0001820021301934C00	1934	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3650MH0001820021301935C00	1935	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3650MH0001820021301936C00	1936	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3650MH0001820021301937C00	1937	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3650MH0001820021301938C00	1938	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3650MH0001820021301939C00	1939	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3650MH0001820021301940C00	1940	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00182	Jutai APXS spot 2 stereo-2 ~5 cm standoff	3650MH0001820001301941C00	1941	autofocus sub-frame for target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm
		3650MH0001820011301942C00	1942	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm
		3650MH0001820021301943C00	1943	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3650MH0001820021301944C00	1944	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3650MH0001820021301945C00	1945	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3650MH0001820021301946C00	1946	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3650MH0001820021301947C00	1947	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3650MH0001820021301948C00	1948	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3650MH0001820021301949C00	1949	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3650MH0001820021301950C00	1950	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00184	Jutai APXS spot 2 ~2 cm standoff	3650MH0001840001301951C00	1951	autofocus sub-frame for target Jutai - APXS spot 2 - standoff near 2 cm
		3650MH0001840011301952C00	1952	target Jutai - APXS spot 2 - standoff near 2 cm
		3650MH0001840021301953C00	1953	target Jutai - APXS spot 2 - standoff near 2 cm - image 1 in 8-image relative focus stack
		3650MH0001840021301954C00	1954	target Jutai - APXS spot 2 - standoff near 2 cm - image 2 in 8-image relative focus stack
		3650MH0001840021301955C00	1955	target Jutai - APXS spot 2 - standoff near 2 cm - image 3 in 8-image relative focus stack
		3650MH0001840021301956C00	1956	target Jutai - APXS spot 2 - standoff near 2 cm - image 4 in 8-image relative focus stack
		3650MH0001840021301957C00	1957	target Jutai - APXS spot 2 - standoff near 2 cm - image 5 in 8-image relative focus stack
		3650MH0001840021301958C00	1958	target Jutai - APXS spot 2 - standoff near 2 cm - image 6 in 8-image relative focus stack
		3650MH0001840021301959C00	1959	target Jutai - APXS spot 2 - standoff near 2 cm - image 7 in 8-image relative focus stack
		3650MH0001840021301960C00	1960	target Jutai - APXS spot 2 - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00182	Jutai APXS spot 1 ~5 cm standoff	3650MH0001820001301961C00	1961	autofocus sub-frame for target Jutai - APXS spot 1 - standoff near 5 cm
		3650MH0001820011301962C00	1962	target Jutai - APXS spot 1 - standoff near 5 cm
		3650MH0001820021301963C00	1963	target Jutai - APXS spot 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3650MH0001820021301964C00	1964	target Jutai - APXS spot 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3650MH0001820021301965C00	1965	target Jutai - APXS spot 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3650MH0001820021301966C00	1966	target Jutai - APXS spot 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3650MH0001820021301967C00	1967	target Jutai - APXS spot 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3650MH0001820021301968C00	1968	target Jutai - APXS spot 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3650MH0001820021301969C00	1969	target Jutai - APXS spot 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3650MH0001820021301970C00	1970	target Jutai - APXS spot 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00706	Raposa after DRT ~24 cm standoff	3650MH0000706001301971C00	1971	autofocus sub-frame for target Raposa - after dust removal tool (DRT) - standoff near 24 cm
		3650MH0000706011301972C00	1972	target Raposa - after dust removal tool (DRT) - standoff near 24 cm
		3650MH0000706021301973C00	1973	target Raposa - after dust removal tool (DRT) - standoff near 24 cm - alternative auto-exposure
mhli00763	Raposa after DRT stereo-1 relief model position 1 ~5 cm standoff	3650MH0000763000130197 4C00	1974	autofocus sub-frame for target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm
		3650MH0000763001130197 5C00	1975	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm
		3650MH0000763002130197 6C00	1976	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - alternative auto-exposure
		3650MH0000763003130197 7C00	1977	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3650MH0000763003130197 8C00	1978	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3650MH0000763003130197 9C00	1979	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3650MH0000763003130198 0C00	1980	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3650MH0000763003130198 1C00	1981	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3650MH0000763003130198 2C00	1982	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3650MH0000763003130198 3C00	1983	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3650MH0000763003130198 4C00	1984	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Raposa after DRT stereo-2 relief model position 2 ~5 cm standoff	3650MH0000763000130198 5C00	1985	autofocus sub-frame for target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm
		3650MH0000763001130198 6C00	1986	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm
		3650MH0000763002130198 7C00	1987	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - alternative auto-exposure
		3650MH0000763003130198 8C00	1988	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3650MH0000763003130198 9C00	1989	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3650MH0000763003130199 0C00	1990	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3650MH0000763003130199 1C00	1991	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3650MH0000763003130199 2C00	1992	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3650MH0000763003130199 3C00	1993	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3650MH0000763003130199 4C00	1994	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3650MH0000763003130199 5C00	1995	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00705	Raposa after DRT relief model position 3 ~5 cm standoff	3650MH000705000130199 6C00	1996	autofocus sub-frame for target Raposa - after dust removal tool (DRT) - relief model position 3 - standoff near 5 cm
		3650MH000705001130199 7C00	1997	target Raposa - after dust removal tool (DRT) - relief model position 3 - standoff near 5 cm
mhli00705	Raposa after DRT relief model position 4 ~5 cm standoff	3650MH000705000130199 8C00	1998	autofocus sub-frame for target Raposa - after dust removal tool (DRT) - relief model position 4 - standoff near 5 cm
		3650MH000705001130199 9C00	1999	target Raposa - after dust removal tool (DRT) - relief model position 4 - standoff near 5 cm
mhli00705	Raposa after DRT relief model position 5 ~5 cm standoff	3650MH000705000130200 0C00	2000	autofocus sub-frame for target Raposa - after dust removal tool (DRT) - relief model position 5 - standoff near 5 cm
		3650MH000705001130200 1C00	2001	target Raposa - after dust removal tool (DRT) - relief model position 5 - standoff near 5 cm
mhli00824	Raposa after DRT ~2 cm standoff	3650MH000824000130200 2C00	2002	autofocus sub-frame for target Raposa - after dust removal tool (DRT) - standoff near 2 cm
		3650MH000824001130200 3C00	2003	target Raposa - after dust removal tool (DRT) - standoff near 2 cm
		3650MH000824002130200 4C00	2004	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - alternative auto-exposure
		3650MH000824003130200 5C00	2005	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - image 1 in 8-image relative focus stack
		3650MH000824003130200 6C00	2006	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - image 2 in 8-image relative focus stack
		3650MH000824003130200 7C00	2007	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - image 3 in 8-image relative focus stack
		3650MH000824003130200 8C00	2008	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - image 4 in 8-image relative focus stack
		3650MH000824003130200 9C00	2009	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - image 5 in 8-image relative focus stack
		3650MH000824003130201 0C00	2010	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - image 6 in 8-image relative focus stack
		3650MH000824003130201 1C00	2011	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - image 7 in 8-image relative focus stack
		3650MH000824003130201 2C00	2012	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - image 8 in 8-image relative focus stack

updated: 14_November_2022

Sol 3651 - MAHLI Images

acquired/performed date(s):	13-Nov-22
camera positions:	0
total parent images:	0
focus merges performed:	7
total focus merge products:	14
total parent images + focus merge products:	14

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3650 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00171	Focus Merges	3651MH0001710001302013R00	2013	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 2005-2012 - best focus image product
		3651MH0001710001302014S00	2014	target Raposa - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 2005-2012 - range map product
		3651MH0001710001302015R00	2015	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1988-1995 - best focus image product
		3651MH0001710001302016S00	2016	target Raposa - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1988-1995 - range map product
		3651MH0001710001302017R00	2017	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1977-1984 - best focus image product
		3651MH0001710001302018S00	2018	target Raposa - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1977-1984 - range map product
		3651MH0001710001302019R00	2019	target Jutai - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1963-1970 - best focus image product
		3651MH0001710001302020S00	2020	target Jutai - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1963-1970 - range map product
		3651MH0001710001302021R00	2021	target Jutai - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1953-1960 - best focus image product
		3651MH0001710001302022S00	2022	target Jutai - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1953-1960 - range map product
		3651MH0001710001302023R00	2023	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1943-1950 - best focus image product
		3651MH0001710001302024S00	2024	target Jutai - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1943-1950 - range map product
		3651MH0001710001302025R00	2025	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1933-1940 - best focus image product
		3651MH0001710001302026S00	2026	target Jutai - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3650 with MSL CAMERA_PRODUCT_IDs 1933-1940 - range map product

updated: 12_December_2022

Sol 3657 - MAHLI Images

acquired/performed date(s):	18-Nov-22/19-Nov-22
camera positions:	8
total parent images:	72
focus merges performed:	6
total focus merge products:	12
total parent images + focus merge products:	84

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed targets Rio_Jufari and Lua. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Rio_Jufari after DRT ~24 cm standoff	3657MH0007060001302027C00	2027	autofocus sub-frame for target Rio_Jufari - after dust removal tool (DRT) - standoff near 24 cm
		3657MH0007060011302028C00	2028	target Rio_Jufari - after dust removal tool (DRT) - standoff near 24 cm
		3657MH0007060021302029C00	2029	target Rio_Jufari - after dust removal tool (DRT) - standoff near 24 cm - alternative auto-exposure
mhli00699	Rio_Jufari after DRT stereo-1 ~45 mm standoff	3657MH0006990001302030C00	2030	autofocus sub-frame for target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm
		3657MH0006990011302031C00	2031	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm
		3657MH0006990021302032C00	2032	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - alternative auto-exposure
		3657MH0006990031302033C00	2033	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3657MH0006990031302034C00	2034	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3657MH0006990031302035C00	2035	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3657MH0006990031302036C00	2036	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3657MH0006990031302037C00	2037	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3657MH0006990031302038C00	2038	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3657MH0006990031302039C00	2039	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3657MH0006990031302040C00	2040	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00699	Rio_Jufari after DRT stereo-2 ~45 mm standoff	3657MH0006990001302041C00	2041	autofocus sub-frame for target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm
		3657MH0006990011302042C00	2042	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm
		3657MH0006990021302043C00	2043	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - alternative auto-exposure
		3657MH0006990031302044C00	2044	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3657MH0006990031302045C00	2045	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3657MH0006990031302046C00	2046	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3657MH0006990031302047C00	2047	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3657MH0006990031302048C00	2048	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3657MH0006990031302049C00	2049	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3657MH0006990031302050C00	2050	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3657MH0006990031302051C00	2051	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00800	Rio_Jufari after DRT ~15 mm standoff	3657MH0008000001302052C00	2052	autofocus sub-frame for target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm
		3657MH0008000011302053C00	2053	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm
		3657MH0008000021302054C00	2054	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - alternative auto-exposure
		3657MH0008000031302055C00	2055	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - image 1 in 8-image relative focus stack
		3657MH0008000031302056C00	2056	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - image 2 in 8-image relative focus stack
		3657MH0008000031302057C00	2057	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - image 3 in 8-image relative focus stack
		3657MH0008000031302058C00	2058	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - image 4 in 8-image relative focus stack
		3657MH0008000031302059C00	2059	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - image 5 in 8-image relative focus stack
		3657MH0008000031302060C00	2060	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - image 6 in 8-image relative focus stack
		3657MH0008000031302061C00	2061	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - image 7 in 8-image relative focus stack
		3657MH0008000031302062C00	2062	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - image 8 in 8-image relative focus stack
mhli00706	Lua after DRT ~25 cm standoff	3657MH0007060001302063C00	2063	autofocus sub-frame for target Lua - after dust removal tool (DRT) - standoff near 25 cm
		3657MH0007060011302064C00	2064	target Lua - after dust removal tool (DRT) - standoff near 25 cm
		3657MH0007060021302065C00	2065	target Lua - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00834	Lua after DRT stereo-1 ~5 cm standoff	3657MH0008340001302066C00	2066	autofocus sub-frame for target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3657MH0008340011302067C00	2067	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3657MH0008340021302068C00	2068	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3657MH0008340031302069C00	2069	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3657MH0008340031302070C00	2070	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3657MH0008340031302071C00	2071	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3657MH0008340031302072C00	2072	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3657MH0008340031302073C00	2073	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3657MH0008340031302074C00	2074	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3657MH0008340031302075C00	2075	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3657MH0008340031302076C00	2076	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00834	Lua after DRT stereo-2 ~5 cm standoff	3657MH0008340001302077C00	2077	autofocus sub-frame for target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3657MH0008340011302078C00	2078	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3657MH0008340021302079C00	2079	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3657MH0008340031302080C00	2080	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3657MH0008340031302081C00	2081	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3657MH0008340031302082C00	2082	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3657MH0008340031302083C00	2083	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3657MH0008340031302084C00	2084	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3657MH0008340031302085C00	2085	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3657MH0008340031302086C00	2086	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3657MH0008340031302087C00	2087	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00732	Lua after DRT ~2 cm standoff	3657MH0007320001302088C00	2088	autofocus sub-frame for target Lua - after dust removal tool (DRT) - standoff near 2 cm
		3657MH0007320011302089C00	2089	target Lua - after dust removal tool (DRT) - standoff near 2 cm
		3657MH0007320021302090C00	2090	target Lua - after dust removal tool (DRT) - standoff near 2 cm - alternative auto-exposure
		3657MH0007320031302091C00	2091	target Lua - after dust removal tool (DRT) - standoff near 2 cm - image 1 in 8-image relative focus stack
		3657MH0007320031302092C00	2092	target Lua - after dust removal tool (DRT) - standoff near 2 cm - image 2 in 8-image relative focus stack
		3657MH0007320031302093C00	2093	target Lua - after dust removal tool (DRT) - standoff near 2 cm - image 3 in 8-image relative focus stack
		3657MH0007320031302094C00	2094	target Lua - after dust removal tool (DRT) - standoff near 2 cm - image 4 in 8-image relative focus stack
		3657MH0007320031302095C00	2095	target Lua - after dust removal tool (DRT) - standoff near 2 cm - image 5 in 8-image relative focus stack
		3657MH0007320031302096C00	2096	target Lua - after dust removal tool (DRT) - standoff near 2 cm - image 6 in 8-image relative focus stack
		3657MH0007320031302097C00	2097	target Lua - after dust removal tool (DRT) - standoff near 2 cm - image 7 in 8-image relative focus stack
		3657MH0007320031302098C00	2098	target Lua - after dust removal tool (DRT) - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00163	Focus Merges	3657MH0001630001302099R00	2099	target Lua - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2091-2098 - best focus image product
		3657MH0001630001302100S00	2100	target Lua - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2091-2098 - range map product
		3657MH0001630001302101R00	2101	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2080-2087 - best focus image product
		3657MH0001630001302102S00	2102	target Lua - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2080-2087 - range map product
		3657MH0001630001302103R00	2103	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2069-2076 - best focus image product
		3657MH0001630001302104S00	2104	target Lua - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2069-2076 - range map product
		3657MH0001630001302105R00	2105	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2055-2062 - best focus image product
		3657MH0001630001302106S00	2106	target Rio_Jufari - after dust removal tool (DRT) - standoff near 15 mm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2055-2062 - range map product
		3657MH0001630001302107R00	2107	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2044-2051 - best focus image product
		3657MH0001630001302108S00	2108	target Rio_Jufari - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2044-2051 - range map product
		3657MH0001630001302109R00	2109	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2033-2040 - best focus image product
		3657MH0001630001302110S00	2110	target Rio_Jufari - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - focus stack acquired sol 3657 with MSL CAMERA_PRODUCT_IDs 2033-2040 - range map product

updated: 21_November_2022

Sol 3658 - MAHLI Images

acquired/performed date(s):	20-Nov-22
camera positions:	20
total parent images:	20
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	20

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged ≥ 360° of the 3 left wheels and right front wheel.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00769	Left Rear Wheel - top view **Wheel Inspection Position 1 of 5**	3658MH0007690011302111E01	2111	rover left rear wheel inspection - top view looking downward on wheel - position 1 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view **Wheel Inspection Position 1 of 5**	3658MH0007700011302112E01	2112	rover left middle wheel inspection - top view looking downward on wheel - position 1 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view **Wheel Inspection Position 1 of 5**	3658MH0007710011302113E01	2113	rover left front wheel inspection - top view looking downward on wheel - position 1 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view **Wheel Inspection Position 1 of 5**	3658MH0007720011302114E01	2114	rover right front wheel inspection - top view looking downward on wheel - position 1 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view **Wheel Inspection Position 2 of 5**	3658MH0007690011302115E01	2115	rover left rear wheel inspection - top view looking downward on wheel - position 2 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view **Wheel Inspection Position 2 of 5**	3658MH0007700011302116E01	2116	rover left middle wheel inspection - top view looking downward on wheel - position 2 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view **Wheel Inspection Position 2 of 5**	3658MH0007710011302117E01	2117	rover left front wheel inspection - top view looking downward on wheel - position 2 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view **Wheel Inspection Position 2 of 5**	3658MH0007720011302118E01	2118	rover right front wheel inspection - top view looking downward on wheel - position 2 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view **Wheel Inspection Position 3 of 5**	3658MH0007690011302119E01	2119	rover left rear wheel inspection - top view looking downward on wheel - position 3 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view **Wheel Inspection Position 3 of 5**	3658MH0007700011302120E01	2120	rover left middle wheel inspection - top view looking downward on wheel - position 3 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view **Wheel Inspection Position 3 of 5**	3658MH0007710011302121E01	2121	rover left front wheel inspection - top view looking downward on wheel - position 3 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view **Wheel Inspection Position 3 of 5**	3658MH0007720011302122E01	2122	rover right front wheel inspection - top view looking downward on wheel - position 3 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view **Wheel Inspection Position 4 of 5**	3658MH0007690011302123E01	2123	rover left rear wheel inspection - top view looking downward on wheel - position 4 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view **Wheel Inspection Position 4 of 5**	3658MH0007700011302124E01	2124	rover left middle wheel inspection - top view looking downward on wheel - position 4 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view **Wheel Inspection Position 4 of 5**	3658MH0007710011302125E01	2125	rover left front wheel inspection - top view looking downward on wheel - position 4 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view **Wheel Inspection Position 4 of 5**	3658MH0007720011302126E01	2126	rover right front wheel inspection - top view looking downward on wheel - position 4 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view **Wheel Inspection Position 5 of 5**	3658MH0007690011302127E01	2127	rover left rear wheel inspection - top view looking downward on wheel - position 5 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view **Wheel Inspection Position 5 of 5**	3658MH0007700011302128E01	2128	rover left middle wheel inspection - top view looking downward on wheel - position 5 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view **Wheel Inspection Position 5 of 5**	3658MH0007710011302129E01	2129	rover left front wheel inspection - top view looking downward on wheel - position 5 of 5 of campaign performed on sol 3658 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view **Wheel Inspection Position 5 of 5**	3658MH0007720011302130E01	2130	rover right front wheel inspection - top view looking downward on wheel - position 5 of 5 of campaign performed on sol 3658 - manual focus assumes standoff about 124 cm

updated: 12_December_2022

Sol 3664 - MAHLI Images

acquired/performed date(s):	27-Nov-22
camera positions:	7
total parent images:	59
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	59

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Los_Tranques and the DRT-brushed target Poraque.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Los_Tranques before DRT ~25 cm standoff	3664MH0001900001302131C00	2131	autofocus sub-frame for target Los_Tranques - before dust removal tool (DRT) - standoff near 25 cm
		3664MH0001900011302132C00	2132	target Los_Tranques - before dust removal tool (DRT) - standoff near 25 cm
mhli00182	Los_Tranques before DRT ~5 cm standoff	3664MH0001820001302133C00	2133	autofocus sub-frame for target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm
		3664MH0001820011302134C00	2134	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm
		3664MH0001820021302135C00	2135	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - image 1 in 8-image relative focus stack
		3664MH0001820021302136C00	2136	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - image 2 in 8-image relative focus stack
		3664MH0001820021302137C00	2137	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - image 3 in 8-image relative focus stack
		3664MH0001820021302138C00	2138	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - image 4 in 8-image relative focus stack
		3664MH0001820021302139C00	2139	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - image 5 in 8-image relative focus stack
		3664MH0001820021302140C00	2140	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - image 6 in 8-image relative focus stack
		3664MH0001820021302141C00	2141	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - image 7 in 8-image relative focus stack
		3664MH0001820021302142C00	2142	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00706	Poraque after DRT ~25 cm standoff	3664MH0007060001302143C00	2143	autofocus sub-frame for target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 25 cm
		3664MH0007060011302144C00	2144	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 25 cm
		3664MH0007060021302145C00	2145	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 25 cm - alternative auto-exposure
mhli00723	Poraque after DRT APXS spot 1 stereo-1 ~5 cm standoff	3664MH0007230001302146C00	2146	autofocus sub-frame for target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm
		3664MH0007230011302147C00	2147	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm
		3664MH0007230021302148C00	2148	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3664MH0007230031302149C00	2149	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3664MH0007230031302150C00	2150	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3664MH0007230031302151C00	2151	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3664MH0007230031302152C00	2152	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3664MH0007230031302153C00	2153	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3664MH0007230031302154C00	2154	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3664MH0007230031302155C00	2155	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3664MH0007230031302156C00	2156	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00723	Poraque after DRT APXS spot 1 stereo-2 ~5 cm standoff	3664MH0007230001302157C00	2157	autofocus sub-frame for target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm
		3664MH0007230011302158C00	2158	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm
		3664MH0007230021302159C00	2159	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3664MH0007230031302160C00	2160	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3664MH0007230031302161C00	2161	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3664MH0007230031302162C00	2162	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3664MH0007230031302162C00	2163	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3664MH0007230031302164C00	2164	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3664MH0007230031302165C00	2165	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3664MH0007230031302166C00	2166	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3664MH0007230031302167C00	2167	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00711	Poraque after DRT APXS spot 1 ~2 cm standoff	3664MH0007110001302168C00	2168	autofocus sub-frame for target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm
		3664MH0007110011302169C00	2169	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm
		3664MH0007110021302170C00	2170	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - alternative auto-exposure
		3664MH0007110031302171C00	2171	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 1 in 8-image relative focus stack
		3664MH0007110031302172C00	2172	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 2 in 8-image relative focus stack
		3664MH0007110031302173C00	2173	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 3 in 8-image relative focus stack
		3664MH0007110031302174C00	2174	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 4 in 8-image relative focus stack
		3664MH0007110031302175C00	2175	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 5 in 8-image relative focus stack
		3664MH0007110031302176C00	2176	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 6 in 8-image relative focus stack
		3664MH0007110031302177C00	2177	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 7 in 8-image relative focus stack
		3664MH0007110031302178C00	2178	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00723	Poraque after DRT APXS spot 2 ~5 cm standoff	3664MH0007230001302179C00	2179	autofocus sub-frame for target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
		3664MH0007230011302180C00	2180	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
		3664MH0007230021302181C00	2181	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - alternative auto-exposure
		3664MH0007230031302182C00	2182	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3664MH0007230031302183C00	2183	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3664MH0007230031302184C00	2184	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3664MH0007230031302185C00	2185	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3664MH0007230031302186C00	2186	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3664MH0007230031302187C00	2187	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3664MH0007230031302188C00	2188	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3664MH0007230031302189C00	2189	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 8 in 8-image relative focus stack

updated: 28_September_2023

Sol 3665 - MAHLI Images

acquired/performed date(s):	27-Nov-22
camera positions:	4
total parent images:	36
focus merges performed:	13
total focus merge products:	26
total parent images + focus merge products:	62

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3664 were merged. MAHLI also imaged the DRT-brushed target Los_Tranques and the corresponding focus stack images for the DRT-brushed target Los_Tranques were merged on this sol as well.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00227	Focus Merges	3665MH0002270001302190R00	2190	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2182-2189 - best focus image product
		3665MH0002270001302191S00	2191	target Poraque - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2182-2189 - range map product
		3665MH0002270001302192R00	2192	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2171-2178 - best focus image product
		3665MH0002270001302193S00	2193	target Poraque - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2171-2178 - range map product
		3665MH0002270001302194R00	2194	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2160-2167 - best focus image product
		3665MH0002270001302195S00	2195	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2160-2167 - range map product
		3665MH0002270001302196R00	2196	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2149-2156 - best focus image product
		3665MH0002270001302197S00	2197	target Poraque - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2149-2156 - range map product
		3665MH0002270001302198R00	2198	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2135-2142 - best focus image product
		3665MH0002270001302199S00	2199	target Los_Tranques - before dust removal tool (DRT) - standoff near 5 cm - focus stack acquired sol 3664 with MSL CAMERA_PRODUCT_IDs 2135-2142 - range map product
mhli00706	Los_Tranques after DRT ~25 cm standoff	3665MH0007060001302200C00	2200	autofocus sub-frame for target Los_Tranques - after dust removal tool (DRT) - standoff near 25 cm
		3665MH0007060011302201C00	2201	target Los_Tranques - after dust removal tool (DRT) - standoff near 25 cm
		3665MH0007060021302202C00	2202	target Los_Tranques - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00763	Los_Tranques after DRT stereo-1 ~5 cm standoff	3665MH0007630001302203C00	2203	autofocus sub-frame for target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3665MH0007630011302204C00	2204	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3665MH0007630021302205C00	2205	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3665MH0007630031302206C00	2206	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3665MH0007630031302207C00	2207	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3665MH0007630031302208C00	2208	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3665MH0007630031302209C00	2209	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3665MH0007630031302210C00	2210	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3665MH0007630031302211C00	2211	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3665MH0007630031302212C00	2212	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3665MH0007630031302213C00	2213	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Los_Tranques after DRT stereo-2 ~5 cm standoff	3665MH0007630001302214C00	2214	autofocus sub-frame for target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3665MH0007630011302215C00	2215	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3665MH0007630021302216C00	2216	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3665MH0007630031302217C00	2217	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3665MH0007630031302218C00	2218	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3665MH0007630031302219C00	2219	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3665MH0007630031302220C00	2220	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3665MH0007630031302221C00	2221	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3665MH0007630031302222C00	2222	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3665MH0007630031302223C00	2223	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3665MH0007630031302224C00	2224	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00603	Los_Tranques after DRT ~1 cm standoff	3665MH0006030001302225C00	2225	autofocus sub-frame for target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm
		3665MH0006030011302226C00	2226	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm
		3665MH0006030021302227C00	2227	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3665MH0006030031302228C00	2228	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3665MH0006030031302229C00	2229	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3665MH0006030031302230C00	2230	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3665MH0006030031302231C00	2231	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3665MH0006030031302232C00	2232	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3665MH0006030031302233C00	2233	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3665MH0006030031302234C00	2234	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3665MH0006030031302235C00	2235	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3665MH0001930001302236R00	2236	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3665 with MSL CAMERA_PRODUCT_IDs 2228-2235 - best focus image product
		3665MH0001930001302237S00	2237	target Los_Tranques - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3665 with MSL CAMERA_PRODUCT_IDs 2228-2235 - range map product
		3665MH0001930001302238R00	2238	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3665 with MSL CAMERA_PRODUCT_IDs 2217-2224 - best focus image product
		3665MH0001930001302239S00	2239	target Los_Tranques - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3665 with MSL CAMERA_PRODUCT_IDs 2217-2224 - range map product
		3665MH0001930001302240R00	2240	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3665 with MSL CAMERA_PRODUCT_IDs 2206-2213 - best focus image product
		3665MH0001930001302241S00	2241	target Los_Tranques - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3665 with MSL CAMERA_PRODUCT_IDs 2206-2213 - range map product

updated: 09_December_2022

Sol 3667 - MAHLI Images

acquired/performed date(s):	18-Nov-22/18-Nov-22
camera positions:	4
total parent images:	36
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	42

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Flecha and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Flecha after DRT ~25 cm standoff	3667MH0007060001302242C00	2242	autofocus sub-frame for target Flecha - after dust removal tool (DRT) - standoff near 25 cm
		3667MH0007060011302243C00	2243	target Flecha - after dust removal tool (DRT) - standoff near 25 cm
		3667MH0007060021302244C00	2244	target Flecha - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00834	Flecha after DRT stereo-1 ~5 cm standoff	3667MH0008340001302245C00	2245	autofocus sub-frame for target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3667MH0008340011302246C00	2246	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3667MH0008340021302247C00	2247	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3667MH0008340031302248C00	2248	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3667MH0008340031302249C00	2249	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3667MH0008340031302250C00	2250	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3667MH0008340031302251C00	2251	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3667MH0008340031302252C00	2252	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3667MH0008340031302253C00	2253	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3667MH0008340031302254C00	2254	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3667MH0008340031302255C00	2255	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00834	Flecha after DRT stereo-2 ~5 cm standoff	3667MH0008340001302256C00	2256	autofocus sub-frame for target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3667MH0008340011302257C00	2257	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3667MH0008340021302258C00	2258	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3667MH0008340031302259C00	2259	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3667MH0008340031302260C00	2260	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3667MH0008340031302261C00	2261	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3667MH0008340031302262C00	2262	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3667MH0008340031302263C00	2263	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3667MH0008340031302264C00	2264	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3667MH0008340031302265C00	2265	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3667MH0008340031302266C00	2266	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00785	Flecha after DRT ~1 cm standoff	3667MH0007850001302267C00	2267	autofocus sub-frame for target Flecha - after dust removal tool (DRT) - standoff near 1 cm
		3667MH0007850011302268C00	2268	target Flecha - after dust removal tool (DRT) - standoff near 1 cm
		3667MH0007850021302269C00	2269	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3667MH0007850031302270C00	2270	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3667MH0007850031302271C00	2271	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3667MH0007850031302272C00	2272	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3667MH0007850031302273C00	2273	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3667MH0007850031302274C00	2274	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3667MH0007850031302275C00	2275	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3667MH0007850031302276C00	2276	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3667MH0007850031302277C00	2277	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3667MH0001930001302278R00	2278	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2270-2277 - best focus image product
		3667MH0001930001302279S00	2279	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2270-2277 - range map product
		3667MH0001930001302280R00	2280	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2259-2266 - best focus image product
		3667MH0001930001302281S00	2281	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2259-2266 - range map product
		3667MH0001930001302282R00	2282	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2248-2255 - best focus image product
		3667MH0001930001302283S00	2283	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2248-2255 - range map product

updated: 02_December_2022

Sol 3669 - MAHLI Images

acquired/performed date(s):	2-Dec-22
camera positions:	0
total parent images:	0
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	6

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: The focus stack images from Sol 3667 were merged again; this happened because a fault occurred onboard the rover that prevented acquisition and merge of new MAHLI data planned for the DRT-brushed target Roxinho.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00193	Focus Merges	3669MH0001930001302284R00	2284	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2270-2277 - best focus image product
		3669MH0001930001302285S00	2285	target Flecha - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2270-2277 - range map product
		3669MH0001930001302286R00	2286	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2259-2266 - best focus image product
		3669MH0001930001302287S00	2287	target Flecha - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2259-2266 - range map product
		3669MH0001930001302288R00	2288	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2248-2255 - best focus image product
		3669MH0001930001302289S00	2289	target Flecha - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3667 with MSL CAMERA_PRODUCT_IDs 2248-2255 - range map product

updated: 18_April_2023

Sol 3671 - MAHLI Images

acquired/performed date(s):	4-Dec-22
camera positions:	13
total parent images:	88
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	88

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed targets Roxinho (brushed on Sol 3669) and Shabono (brushed on this sol). At night, MAHLI imaged inside the CheMin inlet for cleanliness.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Roxinho after sol 3669 DRT ~25 cm standoff	3671MH0007060001302290C00	2290	autofocus sub-frame for target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 25 cm
		3671MH0007060011302291C00	2291	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 25 cm
		3671MH0007060021302292C00	2292	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00721	Roxinho after sol 3669 DRT stereo-1 ~5 cm standoff	3671MH0007210001302293C00	2293	autofocus sub-frame for target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3671MH0007210011302294C00	2294	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3671MH0007210021302295C00	2295	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3671MH0007210031302296C00	2296	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3671MH0007210031302297C00	2297	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3671MH0007210031302298C00	2298	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3671MH0007210031302299C00	2299	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3671MH0007210031302300C00	2300	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3671MH0007210031302301C00	2301	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3671MH0007210031302302C00	2302	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3671MH0007210031302303C00	2303	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00721	Roxinho after sol 3669 DRT stereo-2 ~5 cm standoff	3671MH0007210001302304C00	2304	autofocus sub-frame for target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3671MH0007210011302305C00	2305	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3671MH0007210021302306C00	2306	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3671MH0007210031302307C00	2307	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3671MH0007210031302308C00	2308	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3671MH0007210031302309C00	2309	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3671MH0007210031302310C00	2310	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3671MH0007210031302311C00	2311	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3671MH0007210031302312C00	2312	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3671MH0007210031302313C00	2313	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3671MH0007210031302314C00	2314	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00802	Roxinho after sol 3669 DRT ~2 cm standoff	3671MH0008020001302315C00	2315	autofocus sub-frame for target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm
		3671MH0008020011302316C00	2316	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm
		3671MH0008020021302317C00	2317	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - alternative auto-exposure
		3671MH0008020031302318C00	2318	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - image 1 in 8-image relative focus stack
		3671MH0008020031302319C00	2319	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - image 2 in 8-image relative focus stack
		3671MH0008020031302320C00	2320	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - image 3 in 8-image relative focus stack
		3671MH0008020031302321C00	2321	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - image 4 in 8-image relative focus stack
		3671MH0008020031302322C00	2322	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - image 5 in 8-image relative focus stack
		3671MH0008020031302323C00	2323	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - image 6 in 8-image relative focus stack
		3671MH0008020031302324C00	2324	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - image 7 in 8-image relative focus stack
		3671MH0008020031302325C00	2325	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00706	Shabono after DRT ~24 cm standoff	3671MH0007060001302326C00	2326	autofocus sub-frame for target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 24 cm
		3671MH0007060011302327C00	2327	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 24 cm
		3671MH0007060021302328C00	2328	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 24 cm - alternative auto-exposure
mhli00723	Shabono after DRT APXS spot 2 stereo-1 ~5 cm standoff	3671MH0007230001302329C00	2329	autofocus sub-frame for target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3671MH0007230011302330C00	2330	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3671MH0007230021302331C00	2331	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3671MH0007230031302332C00	2332	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3671MH0007230031302333C00	2333	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3671MH0007230031302334C00	2334	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3671MH0007230031302335C00	2335	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3671MH0007230031302336C00	2336	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3671MH0007230031302337C00	2337	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3671MH0007230031302338C00	2338	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3671MH0007230031302339C00	2339	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00723	Shabono after DRT APXS spot 2 stereo-2 ~5 cm standoff	3671MH0007230001302340C00	2340	autofocus sub-frame for target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3671MH0007230011302341C00	2341	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3671MH0007230021302342C00	2342	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3671MH0007230031302343C00	2343	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3671MH0007230031302344C00	2344	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3671MH0007230031302345C00	2345	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3671MH0007230031302346C00	2346	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3671MH0007230031302347C00	2347	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3671MH0007230031302348C00	2348	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3671MH0007230031302349C00	2349	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3671MH0007230031302350C00	2350	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00746	Shabono after DRT APXS spot 2 ~2 cm standoff	3671MH0007460001302351C00	2351	autofocus sub-frame for target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm
		3671MH0007460011302352C00	2352	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm
		3671MH0007460021302353C00	2353	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - alternative auto-exposure
		3671MH0007460031302354C00	2354	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 1 in 8-image relative focus stack
		3671MH0007460031302355C00	2355	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 2 in 8-image relative focus stack
		3671MH0007460031302356C00	2356	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 3 in 8-image relative focus stack
		3671MH0007460031302357C00	2357	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 4 in 8-image relative focus stack
		3671MH0007460031302358C00	2358	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 5 in 8-image relative focus stack
		3671MH0007460031302359C00	2359	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 6 in 8-image relative focus stack
		3671MH0007460031302360C00	2360	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 7 in 8-image relative focus stack
		3671MH0007460031302361C00	2361	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00723	Shabono after DRT APXS spot 1 ~5 cm standoff	3671MH0007230001302362C00	2362	autofocus sub-frame for target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3671MH0007230011302363C00	2363	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3671MH0007230021302364C00	2364	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - alternative auto-exposure
		3671MH0007230031302365C00	2365	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3671MH0007230031302366C00	2366	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3671MH0007230031302367C00	2367	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3671MH0007230031302368C00	2368	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3671MH0007230031302369C00	2369	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3671MH0007230031302370C00	2370	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3671MH0007230031302371C00	2371	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3671MH0007230031302372C00	2372	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00312	MAHLI 12.4 cm working distance above CheMin inlet mesh; inlet cover open; position 1 of 3; imaging at night	3671MH0003120001302373C00	2373	CheMin sample inlet - cover open - cleanliness inspection - at night with white light LEDs on - manual focus at funnel throat below mesh at 163 mm working distance
		3671MH0003120011302374C00	2374	CheMin sample inlet - cover open - cleanliness inspection - at night with white light LEDs on - manual focus at mesh at 124 mm working distance
mhli00326	position 2 of 3, otherwise same as above	3671MH0003260001302375C00	2375	CheMin sample inlet - cover open - cleanliness inspection - at night with white light LEDs on - manual focus at funnel throat below mesh at 163 mm working distance
mhli00326	position 3 of 3, otherwise same as two above	3671MH0003260001302376C00	2376	CheMin sample inlet - cover open - cleanliness inspection - at night with white light LEDs on - manual focus at funnel throat below mesh at 163 mm working distance
mhli00228	~19 cm above open CheMin inlet	3671MH0002280001302377C00	2377	CheMin sample inlet - cover open - cleanliness inspection - at night with white light LEDs on - manual focus at 19 cm working distance

updated: 28_September_2023

Sol 3672 - MAHLI Images

acquired/performed date(s):	5-Dec-22
camera positions:	0
total parent images:	0
focus merges performed:	7
total focus merge products:	14
total parent images + focus merge products:	14

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3671 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789 0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
mhli00171	Focus Merges	3672MH0001710001302378R00	2378	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2365-2372 - best focus image product
		3672MH0001710001302379S00	2379	target Shabono - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2365-2372 - range map product
		3672MH0001710001302380R00	2380	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2354-2361 - best focus image product
		3672MH0001710001302381S00	2381	target Shabono - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2354-2361 - range map product
		3672MH0001710001302382R00	2382	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2343-2350 - best focus image product
		3672MH0001710001302383S00	2383	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2343-2350 - range map product
		3672MH0001710001302384R00	2384	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2332-2339 - best focus image product
		3672MH0001710001302385S00	2385	target Shabono - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2332-2339 - range map product
		3672MH0001710001302386R00	2386	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2318-2325 - best focus image product
		3672MH0001710001302387S00	2387	target Roxinho - after sol 3669 dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2318-2325 - range map product
		3672MH0001710001302388R00	2388	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2307-2314 - best focus image product
		3672MH0001710001302389S00	2389	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2307-2314 - range map product
		3672MH0001710001302390R00	2390	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2296-2303 - best focus image product
		3672MH0001710001302391S00	2391	target Roxinho - after sol 3669 dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3671 with MSL CAMERA_PRODUCT_IDs 2296-2303 - range map product

updated: 28_September_2023

Sol 3674 - MAHLI Images

acquired/performed date(s):	7-Dec-22
camera positions:	10
total parent images:	67
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	77

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the intended drill target Amapari before and after DRT and after a drill bit preload test. MAHLI also imaged the target Orocaima. The focus stack images were merged as well.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Amapari before DRT ~25 cm standoff	3674MH0001900001302392C00	2392	autofocus sub-frame for intended Amapari drill site - before dust removal tool (DRT) - standoff near 25 cm
		3674MH0001900011302393C00	2393	intended Amapari drill site - before dust removal tool (DRT) - standoff near 25 cm
mhli00122	Amapari before DRT ~5 cm standoff	3674MH0001220001302394C00	2394	autofocus sub-frame for intended Amapari drill site - before dust removal tool (DRT) - standoff near 5 cm
		3674MH0001220011302395C00	2395	intended Amapari drill site - before dust removal tool (DRT) - standoff near 5 cm
mhli00706	Orocaima ~25 cm standoff	3674MH0000706001302396C00	2396	autofocus sub-frame for target Orocaima - standoff near 25 cm
		3674MH0000706001302397C00	2397	target Orocaima - standoff near 25 cm
		3674MH0000706021302398C00	2398	target Orocaima - standoff near 25 cm - alternative auto-exposure
mhli00721	Orocaima stereo-1 ~5 cm standoff	3674MH0000721000302399C00	2399	autofocus sub-frame for target Orocaima - stereo-1 - standoff near 5 cm
		3674MH0000721001302400C00	2400	target Orocaima - stereo-1 - standoff near 5 cm
		3674MH0000721002302401C00	2401	target Orocaima - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3674MH0000721003302402C00	2402	target Orocaima - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3674MH0000721003302403C00	2403	target Orocaima - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3674MH0000721003302404C00	2404	target Orocaima - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3674MH0000721003302405C00	2405	target Orocaima - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3674MH0000721003302406C00	2406	target Orocaima - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3674MH0000721003302407C00	2407	target Orocaima - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3674MH0000721003302408C00	2408	target Orocaima - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3674MH0000721003302409C00	2409	target Orocaima - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00721	Orocaima stereo-2 ~5 cm standoff	3674MH0000721000302410C00	2410	autofocus sub-frame for target Orocaima - stereo-2 - standoff near 5 cm
		3674MH0000721001302411C00	2411	target Orocaima - stereo-2 - standoff near 5 cm
		3674MH0000721002302412C00	2412	target Orocaima - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3674MH0000721003302413C00	2413	target Orocaima - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3674MH0000721003302414C00	2414	target Orocaima - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3674MH0000721003302415C00	2415	target Orocaima - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3674MH0000721003302416C00	2416	target Orocaima - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3674MH0000721003302417C00	2417	target Orocaima - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3674MH0000721003302418C00	2418	target Orocaima - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3674MH0000721003302419C00	2419	target Orocaima - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3674MH0000721003302420C00	2420	target Orocaima - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00706	Amapari after DRT ~24 cm standoff	3674MH0000706000302421C00	2421	autofocus sub-frame for intended Amapari drill site - after dust removal tool (DRT) - standoff near 24 cm
		3674MH0000706001302422C00	2422	intended Amapari drill site - after dust removal tool (DRT) - standoff near 24 cm
		3674MH0000706021302423C00	2423	intended Amapari drill site - after dust removal tool (DRT) - standoff near 24 cm - alternative auto-exposure
mhli00763	Amapari after DRT stereo-1 ~5 cm standoff	3674MH0000763000302424C00	2424	autofocus sub-frame for intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3674MH0000763001302425C00	2425	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3674MH0000763002302426C00	2426	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3674MH0000763003302427C00	2427	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3674MH0000763003302428C00	2428	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3674MH0000763003302429C00	2429	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3674MH0000763003302430C00	2430	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3674MH0000763003302431C00	2431	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3674MH0000763003302432C00	2432	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3674MH0000763003302433C00	2433	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3674MH0000763003302434C00	2434	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Amapari after DRT stereo-2 ~5 cm standoff	3674MH0000763000302435C00	2435	autofocus sub-frame for intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3674MH0000763001302436C00	2436	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3674MH0000763002302437C00	2437	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3674MH0000763003302438C00	2438	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3674MH0000763003302439C00	2439	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3674MH0000763003302440C00	2440	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3674MH0000763003302441C00	2441	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3674MH0000763003302442C00	2442	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3674MH0000763003302443C00	2443	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3674MH0000763003302444C00	2444	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3674MH0000763003302445C00	2445	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00824	Amapari after DRT ~2 cm standoff	3674MH0000824000302446C00	2446	autofocus sub-frame for intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm
		3674MH0000824001302447C00	2447	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm
		3674MH0000824002302448C00	2448	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - alternative auto-exposure
		3674MH0000824003302449C00	2449	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - image 1 in 8-image relative focus stack
		3674MH0000824003302450C00	2450	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - image 2 in 8-image relative focus stack
		3674MH0000824003302451C00	2451	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - image 3 in 8-image relative focus stack
		3674MH0000824003302452C00	2452	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - image 4 in 8-image relative focus stack
		3674MH0000824003302453C00	2453	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - image 5 in 8-image relative focus stack
		3674MH0000824003302454C00	2454	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - image 6 in 8-image relative focus stack
		3674MH0000824003302455C00	2455	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - image 7 in 8-image relative focus stack
		3674MH0000824003302456C00	2456	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00465	Amapari after DRT after drill bit preload test ~35 cm standoff	3674MH0000465000302457C00	2457	autofocus sub-frame for intended Amapari drill site - drill bit preload test - image acquired after preload - after sol 3674 dust removal tool (DRT) - standoff near 35 cm
		3674MH0000465001302458C00	2458	intended Amapari drill site - drill bit preload test - image acquired after preload - after sol 3674 dust removal tool (DRT) - standoff near 35 cm

Continued on Next Page...

mhli00227	Focus Merges	3674MH0002270001302459R00	2459	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2449-2456 - best focus image product
		3674MH0002270001302460500	2460	intended Amapari drill site - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2449-2456 - range map product
		3674MH0002270001302461R00	2461	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2438-2445 - best focus image product
		3674MH0002270001302462500	2462	intended Amapari drill site - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2438-2445 - range map product
		3674MH0002270001302463R00	2463	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2427-2434 - best focus image product
		3674MH0002270001302464500	2464	intended Amapari drill site - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2427-2434 - range map product
		3674MH0002270001302465R00	2465	target Orocaima - stereo-2 - standoff near 5 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2413-2420 - best focus image product
		3674MH0002270001302466500	2466	target Orocaima - stereo-2 - standoff near 5 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2413-2420 - range map product
		3674MH0002270001302467R00	2467	target Orocaima - stereo-1 - standoff near 5 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2402-2409 - best focus image product
		3674MH0002270001302468500	2468	target Orocaima - stereo-1 - standoff near 5 cm - focus stack acquired sol 3674 with MSL CAMERA_PRODUCT_IDs 2402-2409 - range map product

updated: 13_December_2022

Sol 3676 - MAHLI Images

acquired/performed date(s):	9-Dec-22
camera positions:	1
total parent images:	2
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	2

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Drill preparation activities at the planned Amapari sample extraction site. MAHLI imaged the intended site for the Amapari sample discard pile.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Intended Amapari Drill Sample Discard Site Before Discard ~25 cm standoff	3676MH0001900001302469C00	2469	autofocus sub-frame for intended Amapari drill sample discard site - before drill attempt and before discard - standoff near 25 cm
		3676MH0001900011302470C00	2470	intended Amapari drill sample discard site - before drill attempt and before discard - standoff near 25 cm

updated: 28_September_2023

Sol 3677 - MAHLI Images

acquired/performed date(s):	10-Dec-22
camera positions:	8
total parent images:	53
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	61

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the intended drill target Amapari2 before and after DRT and after a drill bit preload test. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Amapari2 before DRT ~25 cm standoff	3677MH0001900001302471C00	2471	autofocus sub-frame for intended Amapari2 drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3677MH0001900011302472C00	2472	intended Amapari2 drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
mhli00122	Amapari2 before DRT APXS spot 2 ~5 cm standoff	3677MH0001220001302473C00	2473	autofocus sub-frame for intended Amapari2 drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
		3677MH0001220011302474C00	2474	intended Amapari2 drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
mhli00706	Amapari2 after DRT ~25 cm standoff	3677MH0007060001302475C00	2475	autofocus sub-frame for intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3677MH0007060011302476C00	2476	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3677MH0007060021302477C00	2477	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm - alternative auto-exposure
mhli00699	Amapari2 after DRT APXS spot 2 stereo-1 ~5 cm standoff	3677MH0006990001302478C00	2478	autofocus sub-frame for intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3677MH0006990011302479C00	2479	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3677MH0006990021302480C00	2480	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3677MH0006990031302481C00	2481	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3677MH0006990031302482C00	2482	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3677MH0006990031302483C00	2483	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3677MH0006990031302484C00	2484	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3677MH0006990031302485C00	2485	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3677MH0006990031302486C00	2486	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3677MH0006990031302487C00	2487	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3677MH0006990031302488C00	2488	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00699	Amapari2 after DRT APXS spot 2 stereo-2 ~5 cm standoff	3677MH0006990001302489C00	2489	autofocus sub-frame for intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3677MH0006990011302490C00	2490	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3677MH0006990021302491C00	2491	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3677MH0006990031302492C00	2492	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3677MH0006990031302493C00	2493	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3677MH0006990031302494C00	2494	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3677MH0006990031302495C00	2495	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3677MH0006990031302496C00	2496	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3677MH0006990031302497C00	2497	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3677MH0006990031302498C00	2498	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3677MH0006990031302499C00	2499	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00824	Amapari2 after DRT APXS spot 2 ~2 cm standoff	3677MH0008240001302500C00	2500	autofocus sub-frame for intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm
		3677MH0008240011302501C00	2501	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm
		3677MH0008240021302502C00	2502	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - alternative auto-exposure
		3677MH0008240031302503C00	2503	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 1 in 8-image relative focus stack
		3677MH0008240031302504C00	2504	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 2 in 8-image relative focus stack
		3677MH0008240031302505C00	2505	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 3 in 8-image relative focus stack
		3677MH0008240031302506C00	2506	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 4 in 8-image relative focus stack
		3677MH0008240031302507C00	2507	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 5 in 8-image relative focus stack
		3677MH0008240031302508C00	2508	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 6 in 8-image relative focus stack
		3677MH0008240031302509C00	2509	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 7 in 8-image relative focus stack
		3677MH0008240031302510C00	2510	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00699	Amapari2 after DRT APXS spot 1 ~55 mm standoff	3677MH0006990001302511C00	2511	autofocus sub-frame for intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm
		3677MH0006990011302512C00	2512	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm
		3677MH0006990021302513C00	2513	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - alternative auto-exposure
		3677MH0006990031302514C00	2514	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - image 1 in 8-image relative focus stack
		3677MH0006990031302515C00	2515	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - image 2 in 8-image relative focus stack
		3677MH0006990031302516C00	2516	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - image 3 in 8-image relative focus stack
		3677MH0006990031302517C00	2517	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - image 4 in 8-image relative focus stack
		3677MH0006990031302518C00	2518	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - image 5 in 8-image relative focus stack
		3677MH0006990031302519C00	2519	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - image 6 in 8-image relative focus stack
		3677MH0006990031302520C00	2520	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - image 7 in 8-image relative focus stack
		3677MH0006990031302521C00	2521	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - image 8 in 8-image relative focus stack
mhli00465	Amapari2 after DRT after drill bit preload test ~35 cm standoff	3677MH0004650001302522C00	2522	autofocus sub-frame for intended Amapari2 drill site - drill bit preload test - image acquired after preload - after sol 3677 dust removal tool (DRT) - standoff near 35 cm
		3677MH0004650011302523C00	2523	intended Amapari2 drill site - drill bit preload test - image acquired after preload - after sol 3677 dust removal tool (DRT) - standoff near 35 cm
mhli00153	Focus Merges	3677MH0001530001302524R00	2524	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - focus stack acquired sol 3677 with MSL CAMERA_PRODUCT_IDs 2514-2521 - best focus image product
		3677MH0001530001302525S00	2525	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 55 mm - focus stack acquired sol 3677 with MSL CAMERA_PRODUCT_IDs 2514-2521 - range map product
		3677MH0001530001302526R00	2526	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3677 with MSL CAMERA_PRODUCT_IDs 2503-2510 - best focus image product
		3677MH0001530001302527S00	2527	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3677 with MSL CAMERA_PRODUCT_IDs 2503-2510 - range map product
		3677MH0001530001302528R00	2528	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3677 with MSL CAMERA_PRODUCT_IDs 2492-2499 - best focus image product
		3677MH0001530001302529S00	2529	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3677 with MSL CAMERA_PRODUCT_IDs 2492-2499 - range map product
		3677MH0001530001302530R00	2530	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3677 with MSL CAMERA_PRODUCT_IDs 2481-2488 - best focus image product
		3677MH0001530001302531S00	2531	intended Amapari2 drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3677 with MSL CAMERA_PRODUCT_IDs 2481-2488 - range map product

updated: 16_December_2022

Sol 3682 - MAHLI Images

acquired/performed date(s):	15-Dec-22
camera positions:	8
total parent images:	48
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	56

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the attempted (Sol 3676) Amapari drill hole, the attempted (Sol 3680) Amapari2 drill hole, and the Amapari2 drill cuttings. The focus stack images were merged as well.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Amapari drill hole attempt drilled on Sol 3676 ~24 cm standoff	3682MH0001900001302532C00	2532	autofocus sub-frame for attempted drill hole in rock named Amapari - drilled sol 3676 - standoff near 24 cm
		3682MH0001900011302533C00	2533	attempted drill hole in rock named Amapari - drilled sol 3676 - standoff near 24 cm
mhli00774	Amapari drill hole attempt drilled on Sol 3676 ~95 mm standoff	3682MH0007740001302534C00	2534	autofocus sub-frame for attempted drill hole in rock named Amapari - drilled sol 3676 - sub-frame positioned to focus on surface outside hole - standoff near 95 mm
		3682MH0007740011302535C00	2535	attempted drill hole in rock named Amapari - drilled sol 3676 - focus based on preceding autofocus sub-frame - standoff near 95 mm
mhli00224	Amapari drill hole attempt drilled on Sol 3676 stereo-1 ~5 cm standoff	3682MH0002240001302536C00	2536	autofocus sub-frame for attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm
		3682MH0002240011302537C00	2537	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm
		3682MH0002240021302538C00	2538	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3682MH0002240021302539C00	2539	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3682MH0002240021302540C00	2540	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3682MH0002240021302541C00	2541	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3682MH0002240021302542C00	2542	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3682MH0002240021302543C00	2543	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3682MH0002240021302544C00	2544	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3682MH0002240021302545C00	2545	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00224	Amapari drill hole attempt drilled on Sol 3676 stereo-2 ~5 cm standoff	3682MH0002240001302546C00	2546	autofocus sub-frame for attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm
		3682MH0002240011302547C00	2547	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm
		3682MH0002240021302548C00	2548	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3682MH0002240021302549C00	2549	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3682MH0002240021302550C00	2550	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3682MH0002240021302551C00	2551	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3682MH0002240021302552C00	2552	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3682MH0002240021302553C00	2553	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3682MH0002240021302554C00	2554	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3682MH0002240021302555C00	2555	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00190	Amapari2 drill hole attempt drilled on Sol 3680 ~25 cm standoff	3682MH0001900001302556C00	2556	autofocus sub-frame for attempted drill hole in rock named Amapari2 - drilled sol 3680 - standoff near 25 cm
		3682MH0001900011302557C00	2557	attempted drill hole in rock named Amapari2 - drilled sol 3680 - standoff near 25 cm
mhli00774	Amapari2 drill hole attempt drilled on Sol 3680 ~10 cm standoff	3682MH0007740001302558C00	2558	autofocus sub-frame for attempted drill hole in rock named Amapari2 - drilled sol 3680 - sub-frame positioned to focus on surface outside hole - standoff near 10 cm
		3682MH0007740011302559C00	2559	attempted drill hole in rock named Amapari2 - drilled sol 3680 - focus based on preceding autofocus sub-frame - standoff near 10 cm
mhli00308	Amapari2 drill cuttings after sol 3680 drill attempt stereo-1 ~4 cm standoff	3682MH0003080001302560C00	2560	autofocus sub-frame for Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm
		3682MH0003080011302561C00	2561	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm
		3682MH0003080021302562C00	2562	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3682MH0003080021302563C00	2563	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3682MH0003080021302564C00	2564	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3682MH0003080021302565C00	2565	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3682MH0003080021302566C00	2566	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3682MH0003080021302567C00	2567	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3682MH0003080021302568C00	2568	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3682MH0003080021302569C00	2569	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00308	Amapari2 drill cuttings after sol 3680 drill attempt stereo-2 ~4 cm standoff	3682MH0003080001302570C00	2570	autofocus sub-frame for Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm
		3682MH0003080011302571C00	2571	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm
		3682MH0003080021302572C00	2572	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3682MH0003080021302573C00	2573	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3682MH0003080021302574C00	2574	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3682MH0003080021302575C00	2575	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3682MH0003080021302576C00	2576	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3682MH0003080021302577C00	2577	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3682MH0003080021302578C00	2578	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3682MH0003080021302579C00	2579	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00153	Focus Merges	3682MH0001530001302580R00	2580	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - focus stack acquired sol 3682 with MSL CAMERA_PRODUCT_IDs 2572-2579 - best focus image product
		3682MH0001530001302581S00	2581	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-2 - standoff near 4 cm - focus stack acquired sol 3682 with MSL CAMERA_PRODUCT_IDs 2572-2579 - range map product
		3682MH0001530001302582R00	2582	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - focus stack acquired sol 3682 with MSL CAMERA_PRODUCT_IDs 2562-2569 - best focus image product
		3682MH0001530001302583S00	2583	Amapari2 drill cuttings - after sol 3680 drill attempt - stereo-1 - standoff near 4 cm - focus stack acquired sol 3682 with MSL CAMERA_PRODUCT_IDs 2562-2569 - range map product
		3682MH0001530001302584R00	2584	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3682 with MSL CAMERA_PRODUCT_IDs 2548-2555 - best focus image product
		3682MH0001530001302585S00	2585	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3682 with MSL CAMERA_PRODUCT_IDs 2548-2555 - range map product
		3682MH0001530001302586R00	2586	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3682 with MSL CAMERA_PRODUCT_IDs 2538-2545 - best focus image product
		3682MH0001530001302587S00	2587	attempted drill hole in rock named Amapari - drilled sol 3676 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3682 with MSL CAMERA_PRODUCT_IDs 2538-2545 - range map product

updated: 03_January_2023

Sol 3684 - MAHLI Images

acquired/performed date(s):	17-Dec-22
camera positions:	12
total parent images:	86
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	86

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the sky, with the dust cover open and closed for flat fielding, as well as the target Urutanim, the Amapari attempted drill hole cuttings and the target Jundia.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00712	sky flats - dust cover closed - MAHLI looking at the sky opposite the sun at +90° azimuth, +30° elevation, away from the rover deck	3684MH0007120001302588C00	2588	MAHLI sky flat field image - dust cover closed - manual focus at motor count 0 - close focus position - focus as if for working distance 21 mm
		3684MH0007120011302589C00	2589	MAHLI sky flat field image - dust cover closed - manual focus at motor count 2412 - focus as if for working distance of 39 mm
		3684MH0007120021302590C00	2590	MAHLI sky flat field image - dust cover closed - manual focus at motor count 3078 - focus as if for working distance of 69 mm
		3684MH0007120031302591C00	2591	MAHLI sky flat field image - dust cover closed - manual focus at motor count 4062 - focus as if for working distance of 268 mm
		3684MH0007120041302592C00	2592	MAHLI sky flat field image - dust cover closed - manual focus at motor count 4488 - near infinity focus
mhli00453	sky flats - MAHLI looking at the sky opposite the sun at +90° azimuth, +30° elevation, away from the rover deck	3684MH0004530001302593C00	2593	MAHLI sky flat field image - dust cover open - manual focus at motor count 15996 - close focus position - focus as if for working distance 21 mm
		3684MH0004530011302594C00	2594	MAHLI sky flat field image - dust cover open - manual focus at motor count 14664 - focus as if for working distance of 39 mm
		3684MH0004530021302595C00	2595	MAHLI sky flat field image - dust cover open - manual focus at motor count 13998 - focus as if for working distance of 69 mm
		3684MH0004530031302596C00	2596	MAHLI sky flat field image - dust cover open - manual focus at motor count 13014 - focus as if for working distance of 267 mm
		3684MH0004530041302597C00	2597	MAHLI sky flat field image - dust cover open - manual focus at motor count 12750 - focus as if for working distance of 633 mm
		3684MH0004530051302598C00	2598	MAHLI sky flat field image - dust cover open - manual focus at motor count 12552 - near infinity focus
mhli00453	sky flats - MAHLI looking at the sky opposite the sun at +90° azimuth, +30° elevation, away from the rover deck camera rotated 180° relative to the preceding set of sky flats	3684MH0004530001302599C00	2599	MAHLI sky flat field image - dust cover open - manual focus at motor count 15996 - close focus position - focus as if for working distance 21 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0004530011302600C00	2600	MAHLI sky flat field image - dust cover open - manual focus at motor count 14664 - focus as if for working distance of 39 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0004530021302601C00	2601	MAHLI sky flat field image - dust cover open - manual focus at motor count 13998 - focus as if for working distance of 69 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0004530031302602C00	2602	MAHLI sky flat field image - dust cover open - manual focus at motor count 13014 - focus as if for working distance of 267 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0004530041302603C00	2603	MAHLI sky flat field image - dust cover open - manual focus at motor count 12750 - focus as if for working distance of 633 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0004530051302604C00	2604	MAHLI sky flat field image - dust cover open - manual focus at motor count 12552 - near infinity focus - camera head rotated 180-degrees relative to previous acquired this same sol
mhli00712	sky flats - dust cover closed - MAHLI looking at the sky opposite the sun at +90° azimuth, +30° elevation, away from the rover deck camera rotated 180° relative to the preceding set of sky flats	3684MH0007120001302605C00	2605	MAHLI sky flat field image - dust cover closed - manual focus at motor count 0 - close focus position - focus as if for working distance 21 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0007120011302606C00	2606	MAHLI sky flat field image - dust cover closed - manual focus at motor count 2412 - focus as if for working distance of 39 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0007120021302607C00	2607	MAHLI sky flat field image - dust cover closed - manual focus at motor count 3078 - focus as if for working distance of 69 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0007120031302608C00	2608	MAHLI sky flat field image - dust cover closed - manual focus at motor count 4062 - focus as if for working distance of 268 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3684MH0007120041302609C00	2609	MAHLI sky flat field image - dust cover closed - manual focus at motor count 4488 - near infinity focus - camera head rotated 180-degrees relative to previous acquired this same sol
mhli00190	Urutanim ~25 cm standoff	3684MH0001900001302610C00	2610	autofocus sub-frame for target Urutanim - standoff near 25 cm
		3684MH0001900011302611C00	2611	target Urutanim - standoff near 25 cm
mhli00152	Urutanim stereo-1 ~55 mm standoff	3684MH0001520001302612C00	2612	autofocus sub-frame for target Urutanim - stereo-1 - standoff near 55 mm
		3684MH0001520011302613C00	2613	target Urutanim - stereo-1 - standoff near 55 mm
		3684MH0001520021302614C00	2614	target Urutanim - stereo-1 - standoff near 55 mm - image 1 in 8-image relative focus stack
		3684MH0001520021302615C00	2615	target Urutanim - stereo-1 - standoff near 55 mm - image 2 in 8-image relative focus stack
		3684MH0001520021302616C00	2616	target Urutanim - stereo-1 - standoff near 55 mm - image 3 in 8-image relative focus stack
		3684MH0001520021302617C00	2617	target Urutanim - stereo-1 - standoff near 55 mm - image 4 in 8-image relative focus stack
		3684MH0001520021302618C00	2618	target Urutanim - stereo-1 - standoff near 55 mm - image 5 in 8-image relative focus stack
		3684MH0001520021302619C00	2619	target Urutanim - stereo-1 - standoff near 55 mm - image 6 in 8-image relative focus stack
		3684MH0001520021302620C00	2620	target Urutanim - stereo-1 - standoff near 55 mm - image 7 in 8-image relative focus stack
		3684MH0001520021302621C00	2621	target Urutanim - stereo-1 - standoff near 55 mm - image 8 in 8-image relative focus stack
mhli00152	Urutanim stereo-2 ~5 cm standoff	3684MH0001520001302622C00	2622	autofocus sub-frame for target Urutanim - stereo-2 - standoff near 5 cm
		3684MH0001520011302623C00	2623	target Urutanim - stereo-2 - standoff near 5 cm
		3684MH0001520021302624C00	2624	target Urutanim - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3684MH0001520021302625C00	2625	target Urutanim - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3684MH0001520021302626C00	2626	target Urutanim - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3684MH0001520021302627C00	2627	target Urutanim - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3684MH0001520021302628C00	2628	target Urutanim - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3684MH0001520021302629C00	2629	target Urutanim - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3684MH0001520021302630C00	2630	target Urutanim - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3684MH0001520021302631C00	2631	target Urutanim - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00311	Urutanim ~2 cm standoff	3684MH0003110001302632C00	2632	autofocus sub-frame for target Urutanim - standoff near 2 cm
		3684MH0003110011302633C00	2633	target Urutanim - standoff near 2 cm
		3684MH0003110021302634C00	2634	target Urutanim - standoff near 2 cm - image 1 in 8-image relative focus stack
		3684MH0003110021302635C00	2635	target Urutanim - standoff near 2 cm - image 2 in 8-image relative focus stack
		3684MH0003110021302636C00	2636	target Urutanim - standoff near 2 cm - image 3 in 8-image relative focus stack
		3684MH0003110021302637C00	2637	target Urutanim - standoff near 2 cm - image 4 in 8-image relative focus stack
		3684MH0003110021302638C00	2638	target Urutanim - standoff near 2 cm - image 5 in 8-image relative focus stack
		3684MH0003110021302639C00	2639	target Urutanim - standoff near 2 cm - image 6 in 8-image relative focus stack
		3684MH0003110021302640C00	2640	target Urutanim - standoff near 2 cm - image 7 in 8-image relative focus stack
		3684MH0003110021302641C00	2641	target Urutanim - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00173	Amapari drill cuttings after sol 3676 drill attempt ~45 mm standoff	3684MH0001730001302642C00	2642	autofocus sub-frame for Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm
		3684MH0001730011302643C00	2643	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm
		3684MH0001730021302644C00	2644	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - image 1 in 8-image relative focus stack
		3684MH0001730021302645C00	2645	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - image 2 in 8-image relative focus stack
		3684MH0001730021302646C00	2646	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - image 3 in 8-image relative focus stack
		3684MH0001730021302647C00	2647	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - image 4 in 8-image relative focus stack
		3684MH0001730021302648C00	2648	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - image 5 in 8-image relative focus stack
		3684MH0001730021302649C00	2649	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - image 6 in 8-image relative focus stack
		3684MH0001730021302650C00	2650	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - image 7 in 8-image relative focus stack
		3684MH0001730021302651C00	2651	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00190	Jundia after DRT ~25 cm standoff	3684MH0001900001302652C00	2652	autofocus sub-frame for target Jundia - standoff near 25 cm
		3684MH0001900011302653C00	2653	target Jundia - standoff near 25 cm

Continued on Next Page...

mhli00299	Jundia stereo-1 ~45 mm standoff	3684MH0002990001302654C00	2654	autofocus sub-frame for target Jundia - stereo-1 - standoff near 45 mm
		3684MH0002990011302655C00	2655	target Jundia - stereo-1 - standoff near 45 mm
		3684MH0002990021302656C00	2656	target Jundia - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3684MH0002990021302657C00	2657	target Jundia - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3684MH0002990021302658C00	2658	target Jundia - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3684MH0002990021302659C00	2659	target Jundia - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3684MH0002990021302660C00	2660	target Jundia - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3684MH0002990021302661C00	2661	target Jundia - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3684MH0002990021302662C00	2662	target Jundia - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3684MH0002990021302663C00	2663	target Jundia - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00299	Jundia stereo-2 ~45 mm standoff	3684MH0002990001302664C00	2664	autofocus sub-frame for target Jundia - stereo-2 - standoff near 45 mm
		3684MH0002990011302665C00	2665	target Jundia - stereo-2 - standoff near 45 mm
		3684MH0002990021302666C00	2666	target Jundia - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3684MH0002990021302667C00	2667	target Jundia - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3684MH0002990021302668C00	2668	target Jundia - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3684MH0002990021302669C00	2669	target Jundia - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3684MH0002990021302670C00	2670	target Jundia - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3684MH0002990021302671C00	2671	target Jundia - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3684MH0002990021302672C00	2672	target Jundia - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3684MH0002990021302673C00	2673	target Jundia - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack

updated: 20_December_2022

Sol 3685 - MAHLI Images

acquired/performed date(s):	18-Dec-22
camera positions:	1
total parent images:	2
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	2

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the attempted (Sol 3676) Amapari drill hole.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00424	Amapari drill hole attempt drilled on Sol 3676 ~35 cm standoff	3685MH0004240001302674C00	2674	autofocus sub-frame for attempted drill hole in rock named Amapari - drilled sol 3676 - standoff near 35 cm
		3685MH0004240011302675C00	2675	attempted drill hole in rock named Amapari - drilled sol 3676 - standoff near 35 cm

updated: 21_December_2022

Sol 3687 - MAHLI Images

acquired/performed date(s):	20-Dec-22
camera positions:	0
total parent images:	0
focus merges performed:	6
total focus merge products:	12
total parent images + focus merge products:	12

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3684 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00163	Focus Merges	3687MH0001630001302676R00	2676	target Jundia - stereo-2 - standoff near 45 mm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2666-2673 - best focus image product
		3687MH0001630001302677S00	2677	target Jundia - stereo-2 - standoff near 45 mm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2666-2673 - range map product
		3687MH0001630001302678R00	2678	target Jundia - stereo-1 - standoff near 45 mm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2656-2663 - best focus image product
		3687MH0001630001302679S00	2679	target Jundia - stereo-1 - standoff near 45 mm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2656-2663 - range map product
		3687MH0001630001302680R00	2680	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2644-2651 - best focus image product
		3687MH0001630001302681S00	2681	Amapari drill cuttings - after sol 3676 drill attempt - standoff near 45 mm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2644-2651 - range map product
		3687MH0001630001302682R00	2682	target Urutanim - standoff near 2 cm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2634-2641 - best focus image product
		3687MH0001630001302683S00	2683	target Urutanim - standoff near 2 cm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2634-2641 - range map product
		3687MH0001630001302684R00	2684	target Urutanim - stereo-2 - standoff near 5 cm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2624-2631 - best focus image product
		3687MH0001630001302685S00	2685	target Urutanim - stereo-2 - standoff near 5 cm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2624-2631 - range map product
		3687MH0001630001302686R00	2686	target Urutanim - stereo-1 - standoff near 55 mm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2614-2621 - best focus image product
		3687MH0001630001302687S00	2687	target Urutanim - stereo-1 - standoff near 55 mm - focus stack acquired sol 3684 with MSL CAMERA_PRODUCT_IDs 2614-2621 - range map product

updated: 03_January_2023

Sol 3688 - MAHLI Images

acquired/performed date(s):	21-Dec-22
camera positions:	6
total parent images:	52
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	62

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI acquired a 3x1 mosaic on the target Tucuxuma and imaged the target Tamandua. The focus stack images were merged as well.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00855	Tucuxuma mosaic position 1 of 3 ~24 cm standoff	3688MH0008550001302688C00	2688	autofocus sub-frame for target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm
		3688MH0008550011302689C00	2689	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm
		3688MH0008550021302690C00	2690	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - image 1 in 8-image relative focus stack
		3688MH0008550021302691C00	2691	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - image 2 in 8-image relative focus stack
		3688MH0008550021302692C00	2692	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - image 3 in 8-image relative focus stack
		3688MH0008550021302693C00	2693	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - image 4 in 8-image relative focus stack
		3688MH0008550021302694C00	2694	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - image 5 in 8-image relative focus stack
		3688MH0008550021302695C00	2695	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - image 6 in 8-image relative focus stack
		3688MH0008550021302696C00	2696	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - image 7 in 8-image relative focus stack
		3688MH0008550021302697C00	2697	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - image 8 in 8-image relative focus stack
mhli00855	Tucuxuma mosaic position 2 of 3 ~25 cm standoff	3688MH0008550001302698C00	2698	autofocus sub-frame for target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm
		3688MH0008550011302699C00	2699	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm
		3688MH0008550021302700C00	2700	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - image 1 in 8-image relative focus stack
		3688MH0008550021302701C00	2701	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - image 2 in 8-image relative focus stack
		3688MH0008550021302702C00	2702	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - image 3 in 8-image relative focus stack
		3688MH0008550021302703C00	2703	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - image 4 in 8-image relative focus stack
		3688MH0008550021302704C00	2704	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - image 5 in 8-image relative focus stack
		3688MH0008550021302705C00	2705	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - image 6 in 8-image relative focus stack
		3688MH0008550021302706C00	2706	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - image 7 in 8-image relative focus stack
		3688MH0008550021302707C00	2707	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - image 8 in 8-image relative focus stack
mhli00855	Tucuxuma mosaic position 3 of 3 ~28 cm standoff	3688MH0008550001302708C00	2708	autofocus sub-frame for target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm
		3688MH0008550011302709C00	2709	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm
		3688MH0008550021302710C00	2710	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - image 1 in 8-image relative focus stack
		3688MH0008550021302711C00	2711	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - image 2 in 8-image relative focus stack
		3688MH0008550021302712C00	2712	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - image 3 in 8-image relative focus stack
		3688MH0008550021302713C00	2713	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - image 4 in 8-image relative focus stack
		3688MH0008550021302714C00	2714	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - image 5 in 8-image relative focus stack
		3688MH0008550021302715C00	2715	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - image 6 in 8-image relative focus stack
		3688MH0008550021302716C00	2716	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - image 7 in 8-image relative focus stack
		3688MH0008550021302717C00	2717	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - image 8 in 8-image relative focus stack
mhli00190	Tamandua ~25 cm standoff	3688MH0001900001302718C00	2718	autofocus sub-frame for target Tamandua - standoff near 25 cm
		3688MH0001900011302719C00	2719	target Tamandua - standoff near 25 cm
mhli00173	Tamandua stereo-1 ~45 mm standoff	3688MH0001730001302720C00	2720	autofocus sub-frame for target Tamandua - stereo-1 - standoff near 45 mm
		3688MH0001730011302721C00	2721	target Tamandua - stereo-1 - standoff near 45 mm
		3688MH0001730021302722C00	2722	target Tamandua - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3688MH0001730021302723C00	2723	target Tamandua - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3688MH0001730021302724C00	2724	target Tamandua - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3688MH0001730021302725C00	2725	target Tamandua - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3688MH0001730021302726C00	2726	target Tamandua - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3688MH0001730021302727C00	2727	target Tamandua - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3688MH0001730021302728C00	2728	target Tamandua - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3688MH0001730021302729C00	2729	target Tamandua - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00173	Tamandua stereo-2 ~45 mm standoff	3688MH0001730001302730C00	2730	autofocus sub-frame for target Tamandua - stereo-2 - standoff near 45 mm
		3688MH0001730011302731C00	2731	target Tamandua - stereo-2 - standoff near 45 mm
		3688MH0001730021302732C00	2732	target Tamandua - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3688MH0001730021302733C00	2733	target Tamandua - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3688MH0001730021302734C00	2734	target Tamandua - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3688MH0001730021302735C00	2735	target Tamandua - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3688MH0001730021302736C00	2736	target Tamandua - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3688MH0001730021302737C00	2737	target Tamandua - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3688MH0001730021302738C00	2738	target Tamandua - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3688MH0001730021302739C00	2739	target Tamandua - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00227	Focus Merges	3688MH0002270001302740R00	2740	target Tamandua - stereo-2 - standoff near 45 mm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2732-2739 - best focus image product
		3688MH0002270001302741500	2741	target Tamandua - stereo-2 - standoff near 45 mm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2732-2739 - range map product
		3688MH0002270001302742R00	2742	target Tamandua - stereo-1 - standoff near 45 mm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2722-2729 - best focus image product
		3688MH0002270001302743500	2743	target Tamandua - stereo-1 - standoff near 45 mm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2722-2729 - range map product
		3688MH0002270001302744R00	2744	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2710-2717 - best focus image product
		3688MH0002270001302745500	2745	target Tucuxuma - mosaic position 3 of 3 - standoff near 28 cm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2710-2717 - range map product
		3688MH0002270001302746R00	2746	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2700-2707 - best focus image product
		3688MH0002270001302747500	2747	target Tucuxuma - mosaic position 2 of 3 - standoff near 25 cm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2700-2707 - range map product
		3688MH0002270001302748R00	2748	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2690-2697 - best focus image product
		3688MH0002270001302749500	2749	target Tucuxuma - mosaic position 1 of 3 - standoff near 24 cm - focus stack acquired sol 3688 with MSL CAMERA_PRODUCT_IDs 2690-2697 - range map product

updated: 03_January_2023

Sol 3689 - MAHLI Images

acquired/performed date(s):	22-Dec-22
camera positions:	10
total parent images:	84
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	84

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI acquired a 3x2 mosaic on Wapixana. MAHLI also imaged the target Truaru and the REMS UV Sensor.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00855	Wapixana mosaic position 1 of 6 ~26 cm standoff	3689MH0008550001302750C00	2750	autofocus sub-frame for target Wapixana - mosaic position 1 of 6 - standoff near 26 cm
		3689MH0008550011302751C00	2751	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm
		3689MH0008550021302752C00	2752	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - image 1 in 8-image relative focus stack
		3689MH0008550021302753C00	2753	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - image 2 in 8-image relative focus stack
		3689MH0008550021302754C00	2754	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - image 3 in 8-image relative focus stack
		3689MH0008550021302755C00	2755	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - image 4 in 8-image relative focus stack
		3689MH0008550021302756C00	2756	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - image 5 in 8-image relative focus stack
		3689MH0008550021302757C00	2757	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - image 6 in 8-image relative focus stack
		3689MH0008550021302758C00	2758	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - image 7 in 8-image relative focus stack
		3689MH0008550021302759C00	2759	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - image 8 in 8-image relative focus stack
mhli00855	Wapixana mosaic position 2 of 6 ~22 cm standoff	3689MH0008550001302760C00	2760	autofocus sub-frame for target Wapixana - mosaic position 2 of 6 - standoff near 22 cm
		3689MH0008550011302761C00	2761	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm
		3689MH0008550021302762C00	2762	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - image 1 in 8-image relative focus stack
		3689MH0008550021302763C00	2763	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - image 2 in 8-image relative focus stack
		3689MH0008550021302764C00	2764	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - image 3 in 8-image relative focus stack
		3689MH0008550021302765C00	2765	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - image 4 in 8-image relative focus stack
		3689MH0008550021302766C00	2766	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - image 5 in 8-image relative focus stack
		3689MH0008550021302767C00	2767	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - image 6 in 8-image relative focus stack
		3689MH0008550021302768C00	2768	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - image 7 in 8-image relative focus stack
		3689MH0008550021302769C00	2769	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - image 8 in 8-image relative focus stack
mhli00855	Wapixana mosaic position 3 of 6 ~24 cm standoff	3689MH0008550001302770C00	2770	autofocus sub-frame for target Wapixana - mosaic position 3 of 6 - standoff near 24 cm
		3689MH0008550011302771C00	2771	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm
		3689MH0008550021302772C00	2772	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - image 1 in 8-image relative focus stack
		3689MH0008550021302773C00	2773	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - image 2 in 8-image relative focus stack
		3689MH0008550021302774C00	2774	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - image 3 in 8-image relative focus stack
		3689MH0008550021302775C00	2775	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - image 4 in 8-image relative focus stack
		3689MH0008550021302776C00	2776	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - image 5 in 8-image relative focus stack
		3689MH0008550021302777C00	2777	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - image 6 in 8-image relative focus stack
		3689MH0008550021302778C00	2778	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - image 7 in 8-image relative focus stack
		3689MH0008550021302779C00	2779	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - image 8 in 8-image relative focus stack
mhli00855	Wapixana mosaic position 4 of 6 ~24 cm standoff	3689MH0008550001302780C00	2780	autofocus sub-frame for target Wapixana - mosaic position 4 of 6 - standoff near 24 cm
		3689MH0008550011302781C00	2781	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm
		3689MH0008550021302782C00	2782	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - image 1 in 8-image relative focus stack
		3689MH0008550021302783C00	2783	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - image 2 in 8-image relative focus stack
		3689MH0008550021302784C00	2784	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - image 3 in 8-image relative focus stack
		3689MH0008550021302785C00	2785	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - image 4 in 8-image relative focus stack
		3689MH0008550021302786C00	2786	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - image 5 in 8-image relative focus stack
		3689MH0008550021302787C00	2787	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - image 6 in 8-image relative focus stack
		3689MH0008550021302788C00	2788	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - image 7 in 8-image relative focus stack
		3689MH0008550021302789C00	2789	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - image 8 in 8-image relative focus stack
mhli00855	Wapixana mosaic position 5 of 6 ~30 cm standoff	3689MH0008550001302790C00	2790	autofocus sub-frame for target Wapixana - mosaic position 5 of 6 - standoff near 30 cm
		3689MH0008550011302791C00	2791	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm
		3689MH0008550021302792C00	2792	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - image 1 in 8-image relative focus stack
		3689MH0008550021302793C00	2793	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - image 2 in 8-image relative focus stack
		3689MH0008550021302794C00	2794	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - image 3 in 8-image relative focus stack
		3689MH0008550021302795C00	2795	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - image 4 in 8-image relative focus stack
		3689MH0008550021302796C00	2796	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - image 5 in 8-image relative focus stack
		3689MH0008550021302797C00	2797	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - image 6 in 8-image relative focus stack
		3689MH0008550021302798C00	2798	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - image 7 in 8-image relative focus stack
		3689MH0008550021302799C00	2799	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - image 8 in 8-image relative focus stack
mhli00855	Wapixana mosaic position 6 of 6 ~24 cm standoff	3689MH0008550001302800C00	2800	autofocus sub-frame for target Wapixana - mosaic position 6 of 6 - standoff near 24 cm
		3689MH0008550011302801C00	2801	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm
		3689MH0008550021302802C00	2802	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - image 1 in 8-image relative focus stack
		3689MH0008550021302803C00	2803	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - image 2 in 8-image relative focus stack
		3689MH0008550021302804C00	2804	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - image 3 in 8-image relative focus stack
		3689MH0008550021302805C00	2805	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - image 4 in 8-image relative focus stack
		3689MH0008550021302806C00	2806	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - image 5 in 8-image relative focus stack
		3689MH0008550021302807C00	2807	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - image 6 in 8-image relative focus stack
		3689MH0008550021302808C00	2808	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - image 7 in 8-image relative focus stack
		3689MH0008550021302809C00	2809	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - image 8 in 8-image relative focus stack
mhli00190	Truaru ~24 cm standoff	3689MH0001900001302810C00	2810	autofocus sub-frame for target Truaru - standoff near 24 cm
		3689MH0001900011302811C00	2811	target Truaru - standoff near 24 cm

Continued on Next Page...

mhll00224	Truaru stereo-1 ~4 cm standoff	3689MH000224000130281 2C00	2812	autofocus sub-frame for target Truaru - stereo-1 - standoff near 4 cm
		3689MH000224001130281 3C00	2813	target Truaru - stereo-1 - standoff near 4 cm
		3689MH000224002130281 4C00	2814	target Truaru - stereo-1 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3689MH000224002130281 5C00	2815	target Truaru - stereo-1 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3689MH000224002130281 6C00	2816	target Truaru - stereo-1 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3689MH000224002130281 7C00	2817	target Truaru - stereo-1 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3689MH000224002130281 8C00	2818	target Truaru - stereo-1 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3689MH000224002130281 9C00	2819	target Truaru - stereo-1 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3689MH000224002130282 0C00	2820	target Truaru - stereo-1 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3689MH000224002130282 1C00	2821	target Truaru - stereo-1 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhll00224	Truaru stereo-2 ~4 cm standoff	3689MH000224000130282 2C00	2822	autofocus sub-frame for target Truaru - stereo-2 - standoff near 4 cm
		3689MH000224001130282 3C00	2823	target Truaru - stereo-2 - standoff near 4 cm
		3689MH000224002130282 4C00	2824	target Truaru - stereo-2 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3689MH000224002130282 5C00	2825	target Truaru - stereo-2 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3689MH000224002130282 6C00	2826	target Truaru - stereo-2 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3689MH000224002130282 7C00	2827	target Truaru - stereo-2 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3689MH000224002130282 8C00	2828	target Truaru - stereo-2 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3689MH000224002130282 9C00	2829	target Truaru - stereo-2 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3689MH000224002130283 0C00	2830	target Truaru - stereo-2 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3689MH000224002130283 1C00	2831	target Truaru - stereo-2 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhll00095	REMS UV sensor ~15 cm standoff	3689MH000095000130283 2C00	2832	autofocus sub-frame for REMS UV sensor - characterize dust accumulation
		3689MH000095001130283 3C00	2833	REMS UV sensor - characterize dust accumulation

updated: 23_December_2022

Sol 3690 - MAHLI Images

acquired/performed date(s):	23-Dec-22
camera positions:	0
total parent images:	0
focus merges performed:	8
total focus merge products:	16
total parent images + focus merge products:	16

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3689 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00170	Focus Merges	3690MH0001700001302834R00	2834	target Truaru - stereo-2 - standoff near 4 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2824-2831 - best focus image product
		3690MH0001700001302835S00	2835	target Truaru - stereo-2 - standoff near 4 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2824-2831 - range map product
		3690MH0001700001302836R00	2836	target Truaru - stereo-1 - standoff near 4 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2814-2821 - best focus image product
		3690MH0001700001302837S00	2837	target Truaru - stereo-1 - standoff near 4 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2814-2821 - range map product
		3690MH0001700001302838R00	2838	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2802-2809 - best focus image product
		3690MH0001700001302839S00	2839	target Wapixana - mosaic position 6 of 6 - standoff near 24 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2802-2809 - range map product
		3690MH0001700001302840R00	2840	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2792-2799 - best focus image product
		3690MH0001700001302841S00	2841	target Wapixana - mosaic position 5 of 6 - standoff near 30 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2792-2799 - range map product
		3690MH0001700001302842R00	2842	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2782-2789 - best focus image product
		3690MH0001700001302843S00	2843	target Wapixana - mosaic position 4 of 6 - standoff near 24 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2782-2789 - range map product
		3690MH0001700001302844R00	2844	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2772-2779 - range map product
		3690MH0001700001302845S00	2845	target Wapixana - mosaic position 3 of 6 - standoff near 24 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2772-2779 - range map product
		3690MH0001700001302846R00	2846	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2762-2769 - best focus image product
		3690MH0001700001302847S00	2847	target Wapixana - mosaic position 2 of 6 - standoff near 22 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2762-2769 - range map product
		3690MH0001700001302848R00	2848	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2752-2759 - best focus image product
		3690MH0001700001302849S00	2849	target Wapixana - mosaic position 1 of 6 - standoff near 26 cm - focus stack acquired sol 3689 with MSL CAMERA_PRODUCT_IDs 2752-2759 - range map product

updated: 04_January_2023

Sol 3699 - MAHLI Images

acquired/performed date(s):	1-Jan-23
camera positions:	7
total parent images:	61
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	61

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Corume and Mapuera.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Corume ~24 cm standoff	3699MH0007060001302850C00	2850	autofocus sub-frame for target Corume - standoff near 24 cm
		3699MH0007060011302851C00	2851	target Corume - standoff near 24 cm
		3699MH0007060021302852C00	2852	target Corume - standoff near 24 cm - alternative auto-exposure
mhli00763	Corume stereo-1 ~35 mm standoff	3699MH0007630001302853C00	2853	autofocus sub-frame for target Corume - stereo-1 - standoff near 35 mm
		3699MH0007630011302854C00	2854	target Corume - stereo-1 - standoff near 35 mm
		3699MH0007630021302855C00	2855	target Corume - stereo-1 - standoff near 35 mm - alternative auto-exposure
		3699MH0007630031302856C00	2856	target Corume - stereo-1 - standoff near 35 mm - image 1 in 8-image relative focus stack
		3699MH0007630031302857C00	2857	target Corume - stereo-1 - standoff near 35 mm - image 2 in 8-image relative focus stack
		3699MH0007630031302858C00	2858	target Corume - stereo-1 - standoff near 35 mm - image 3 in 8-image relative focus stack
		3699MH0007630031302859C00	2859	target Corume - stereo-1 - standoff near 35 mm - image 4 in 8-image relative focus stack
		3699MH0007630031302860C00	2860	target Corume - stereo-1 - standoff near 35 mm - image 5 in 8-image relative focus stack
		3699MH0007630031302861C00	2861	target Corume - stereo-1 - standoff near 35 mm - image 6 in 8-image relative focus stack
		3699MH0007630031302862C00	2862	target Corume - stereo-1 - standoff near 35 mm - image 7 in 8-image relative focus stack
		3699MH0007630031302863C00	2863	target Corume - stereo-1 - standoff near 35 mm - image 8 in 8-image relative focus stack
mhli00763	Corume stereo-2 ~35 mm standoff	3699MH0007630001302864C00	2864	autofocus sub-frame for target Corume - stereo-2 - standoff near 35 mm
		3699MH0007630011302865C00	2865	target Corume - stereo-2 - standoff near 35 mm
		3699MH0007630021302866C00	2866	target Corume - stereo-2 - standoff near 35 mm - alternative auto-exposure
		3699MH0007630031302867C00	2867	target Corume - stereo-2 - standoff near 35 mm - image 1 in 8-image relative focus stack
		3699MH0007630031302868C00	2868	target Corume - stereo-2 - standoff near 35 mm - image 2 in 8-image relative focus stack
		3699MH0007630031302869C00	2869	target Corume - stereo-2 - standoff near 35 mm - image 3 in 8-image relative focus stack
		3699MH0007630031302870C00	2870	target Corume - stereo-2 - standoff near 35 mm - image 4 in 8-image relative focus stack
		3699MH0007630031302871C00	2871	target Corume - stereo-2 - standoff near 35 mm - image 5 in 8-image relative focus stack
		3699MH0007630031302872C00	2872	target Corume - stereo-2 - standoff near 35 mm - image 6 in 8-image relative focus stack
		3699MH0007630031302873C00	2873	target Corume - stereo-2 - standoff near 35 mm - image 7 in 8-image relative focus stack
		3699MH0007630031302874C00	2874	target Corume - stereo-2 - standoff near 35 mm - image 8 in 8-image relative focus stack
mhli00706	Mapuera ~24 cm standoff	3699MH0007060001302875C00	2875	autofocus sub-frame for target Mapuera - APXS spot 2 - standoff near 24 cm
		3699MH0007060011302876C00	2876	target Mapuera - APXS spot 2 - standoff near 24 cm
		3699MH0007060021302877C00	2877	target Mapuera - APXS spot 2 - standoff near 24 cm - alternative auto-exposure
mhli00834	Mapuera APXS spot 2 stereo-1 ~35 mm standoff	3699MH0008340001302878C00	2878	autofocus sub-frame for target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm
		3699MH0008340011302879C00	2879	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm
		3699MH0008340021302880C00	2880	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - alternative auto-exposure
		3699MH0008340031302881C00	2881	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - image 1 in 8-image relative focus stack
		3699MH0008340031302882C00	2882	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - image 2 in 8-image relative focus stack
		3699MH0008340031302883C00	2883	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - image 3 in 8-image relative focus stack
		3699MH0008340031302884C00	2884	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - image 4 in 8-image relative focus stack
		3699MH0008340031302885C00	2885	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - image 5 in 8-image relative focus stack
		3699MH0008340031302886C00	2886	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - image 6 in 8-image relative focus stack
		3699MH0008340031302887C00	2887	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - image 7 in 8-image relative focus stack
		3699MH0008340031302888C00	2888	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - image 8 in 8-image relative focus stack
mhli00834	Mapuera APXS spot 2 stereo-2 ~35 mm standoff	3699MH0008340001302889C00	2889	autofocus sub-frame for target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm
		3699MH0008340011302890C00	2890	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm
		3699MH0008340021302891C00	2891	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - alternative auto-exposure
		3699MH0008340031302892C00	2892	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - image 1 in 8-image relative focus stack
		3699MH0008340031302893C00	2893	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - image 2 in 8-image relative focus stack
		3699MH0008340031302894C00	2894	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - image 3 in 8-image relative focus stack
		3699MH0008340031302895C00	2895	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - image 4 in 8-image relative focus stack
		3699MH0008340031302896C00	2896	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - image 5 in 8-image relative focus stack
		3699MH0008340031302897C00	2897	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - image 6 in 8-image relative focus stack
		3699MH0008340031302898C00	2898	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - image 7 in 8-image relative focus stack
		3699MH0008340031302899C00	2899	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - image 8 in 8-image relative focus stack
mhli00834	Mapuera APXS spot 1 ~35 mm standoff	3699MH0008340001302900C00	2900	autofocus sub-frame for target Mapuera - APXS spot 1 - standoff near 35 mm
		3699MH0008340011302901C00	2901	target Mapuera - APXS spot 1 - standoff near 35 mm
		3699MH0008340021302902C00	2902	target Mapuera - APXS spot 1 - standoff near 35 mm - alternative auto-exposure
		3699MH0008340031302903C00	2903	target Mapuera - APXS spot 1 - standoff near 35 mm - image 1 in 8-image relative focus stack
		3699MH0008340031302904C00	2904	target Mapuera - APXS spot 1 - standoff near 35 mm - image 2 in 8-image relative focus stack
		3699MH0008340031302905C00	2905	target Mapuera - APXS spot 1 - standoff near 35 mm - image 3 in 8-image relative focus stack
		3699MH0008340031302906C00	2906	target Mapuera - APXS spot 1 - standoff near 35 mm - image 4 in 8-image relative focus stack
		3699MH0008340031302907C00	2907	target Mapuera - APXS spot 1 - standoff near 35 mm - image 5 in 8-image relative focus stack
		3699MH0008340031302908C00	2908	target Mapuera - APXS spot 1 - standoff near 35 mm - image 6 in 8-image relative focus stack
		3699MH0008340031302909C00	2909	target Mapuera - APXS spot 1 - standoff near 35 mm - image 7 in 8-image relative focus stack
		3699MH0008340031302910C00	2910	target Mapuera - APXS spot 1 - standoff near 35 mm - image 8 in 8-image relative focus stack

updated: 14_April_2023

Sol 3700 - MAHLI Images

acquired/performed date(s):	2-Jan-23
camera positions:	1
total parent images:	3
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	13

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Corume and Mapuera and the Sol 3699 focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00760	Corume and Mapuera centered between the two targets ~35 cm standoff	3700MH0007600001302911C00	2911	autofocus sub-frame for targets Corume and Mapuera - image is centered between the two targets - standoff near 35 cm
		3700MH0007600011302912C00	2912	targets Corume and Mapuera - image is centered between the two targets - standoff near 35 cm
		3700MH0007600021302913C00	2913	targets Corume and Mapuera - image is centered between the two targets - standoff near 35 cm - alternative auto-exposure
mhli00695	Focus Merges	3700MH0006950001302914R00	2914	target Mapuera - APXS spot 1 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2903-2910 - best focus image product
		3700MH0006950001302915S00	2915	target Mapuera - APXS spot 1 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2903-2910 - range map product
		3700MH0006950001302916R00	2916	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2892-2899 - best focus image product
		3700MH0006950001302917S00	2917	target Mapuera - APXS spot 2 - stereo-2 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2892-2899 - range map product
		3700MH0006950001302918R00	2918	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2881-2888 - best focus image product
		3700MH0006950001302919S00	2919	target Mapuera - APXS spot 2 - stereo-1 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2881-2888 - range map product
		3700MH0006950001302920R00	2920	target Corume - stereo-2 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2867-2874 - best focus image product
		3700MH0006950001302921S00	2921	target Corume - stereo-2 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2867-2874 - range map product
		3700MH0006950001302922R00	2922	target Corume - stereo-1 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2856-2863 - best focus image product
		3700MH0006950001302923S00	2923	target Corume - stereo-1 - standoff near 35 mm - focus stack acquired sol 3699 with MSL CAMERA_PRODUCT_IDs 2856-2863 - range map product

updated: 06_January_2023

Sol 3702 - MAHLI Images

acquired/performed date(s):	5-Jan-23
camera positions:	9
total parent images:	62
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	62

Image ID: black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID: Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Anarem and the DRT-brushed target Uafaranda.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Anarem ~25 cm standoff	3702MH0001900001302924C00	2924	autofocus sub-frame for target Anarem - standoff near 25 cm
		3702MH0001900011302925C00	2925	target Anarem - standoff near 25 cm
mhli00173	Anarem stereo-1 ~5 cm standoff	3702MH0001730001302926C00	2926	autofocus sub-frame for target Anarem - stereo-1 - standoff near 5 cm
		3702MH0001730011302927C00	2927	target Anarem - stereo-1 - standoff near 5 cm
		3702MH0001730021302928C00	2928	target Anarem - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3702MH0001730021302929C00	2929	target Anarem - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3702MH0001730021302930C00	2930	target Anarem - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3702MH0001730021302931C00	2931	target Anarem - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3702MH0001730021302932C00	2932	target Anarem - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3702MH0001730021302933C00	2933	target Anarem - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3702MH0001730021302934C00	2934	target Anarem - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3702MH0001730021302935C00	2935	target Anarem - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Anarem stereo-2 ~5 cm standoff	3702MH0001730001302936C00	2936	autofocus sub-frame for target Anarem - stereo-2 - standoff near 5 cm
		3702MH0001730011302937C00	2937	target Anarem - stereo-2 - standoff near 5 cm
		3702MH0001730021302938C00	2938	target Anarem - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3702MH0001730021302939C00	2939	target Anarem - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3702MH0001730021302940C00	2940	target Anarem - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3702MH0001730021302941C00	2941	target Anarem - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3702MH0001730021302942C00	2942	target Anarem - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3702MH0001730021302943C00	2943	target Anarem - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3702MH0001730021302944C00	2944	target Anarem - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3702MH0001730021302945C00	2945	target Anarem - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00190	Uafaranda before DRT ~25 cm standoff	3702MH0001900001302946C00	2946	autofocus sub-frame for target Uafaranda - before dust removal tool (DRT) - standoff near 25 cm
		3702MH0001900011302947C00	2947	target Uafaranda - before dust removal tool (DRT) - standoff near 25 cm
mhli00122	Uafaranda before DRT ~5 cm standoff	3702MH0001220001302948C00	2948	autofocus sub-frame for target Uafaranda - before dust removal tool (DRT) - standoff near 5 cm
		3702MH0001220011302949C00	2949	target Uafaranda - before dust removal tool (DRT) - standoff near 5 cm
mhli00706	Uafaranda after DRT ~25 cm standoff	3702MH0007060001302950C00	2950	autofocus sub-frame for target Uafaranda - after dust removal tool (DRT) - standoff near 25 cm
		3702MH0007060011302951C00	2951	target Uafaranda - after dust removal tool (DRT) - standoff near 25 cm
		3702MH0007060021302952C00	2952	target Uafaranda - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00834	Uafaranda after DRT stereo-1 ~5 cm standoff	3702MH0008340001302953C00	2953	autofocus sub-frame for target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3702MH0008340011302954C00	2954	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3702MH0008340021302955C00	2955	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3702MH0008340031302956C00	2956	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3702MH0008340031302957C00	2957	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3702MH0008340031302958C00	2958	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3702MH0008340031302959C00	2959	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3702MH0008340031302960C00	2960	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3702MH0008340031302961C00	2961	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3702MH0008340031302962C00	2962	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3702MH0008340031302963C00	2963	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00834	Uafaranda after DRT stereo-2 ~5 cm standoff	3702MH0008340001302964C00	2964	autofocus sub-frame for target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3702MH0008340011302965C00	2965	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3702MH0008340021302966C00	2966	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3702MH0008340031302967C00	2967	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3702MH0008340031302968C00	2968	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3702MH0008340031302969C00	2969	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3702MH0008340031302970C00	2970	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3702MH0008340031302971C00	2971	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3702MH0008340031302972C00	2972	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3702MH0008340031302973C00	2973	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3702MH0008340031302974C00	2974	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00835	Uafaranda after DRT ~1 cm standoff	3702MH0008350001302975C00	2975	autofocus sub-frame for target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm
		3702MH0008350011302976C00	2976	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm
		3702MH0008350021302977C00	2977	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3702MH0008350031302978C00	2978	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3702MH0008350031302979C00	2979	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3702MH0008350031302980C00	2980	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3702MH0008350031302981C00	2981	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3702MH0008350031302982C00	2982	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3702MH0008350031302983C00	2983	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3702MH0008350031302984C00	2984	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3702MH0008350031302985C00	2985	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack

updated: 06_January_2023

Sol 3703 - MAHLI Images

acquired/performed date(s):	5-Jan-23	
camera positions:	0	**Image ID:**
total parent images:	0	black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received
focus merges performed:	5	**CDPID:**
total focus merge products:	10	Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels
total parent images + focus merge products:	10	

summary of MAHLI activities: Focus stack images from Sol 3702 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00227	Focus Merges	3703MH0002270001302986R00	2986	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2978-2985 - best focus image product
		3703MH0002270001302987S00	2987	target Uafaranda - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2978-2985 - range map product
		3703MH0002270001302988R00	2988	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2967-2974 - best focus image product
		3703MH0002270001302989S00	2989	target Uafaranda - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2967-2974 - range map product
		3703MH0002270001302990R00	2990	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2956-2963 - best focus image product
		3703MH0002270001302991S00	2991	target Uafaranda - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2956-2963 - range map product
		3703MH0002270001302992R00	2992	target Anarem - stereo-2 - standoff near 5 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2938-2945 - best focus image product
		3703MH0002270001302993S00	2993	target Anarem - stereo-2 - standoff near 5 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2938-2945 - range map product
		3703MH0002270001302994R00	2994	target Anarem - stereo-1 - standoff near 5 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2928-2935 - best focus image product
		3703MH0002270001302995S00	2995	target Anarem - stereo-1 - standoff near 5 cm - focus stack acquired sol 3702 with MSL CAMERA_PRODUCT_IDs 2928-2935 - range map product

updated: 10_January_2023

Sol 3705 - MAHLI Images

acquired/performed date(s):	8-Jan-23
camera positions:	9
total parent images:	62
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	62

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Waimiri and the target Caroebe.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Waimiri before DRT ~25 cm standoff	3705MH0001900001302996C00	2996	autofocus sub-frame for target Waimiri - before dust removal tool (DRT) - standoff near 25 cm
		3705MH0001900011302997C00	2997	target Waimiri - before dust removal tool (DRT) - standoff near 25 cm
mhli00122	Waimiri before DRT ~5 cm standoff	3705MH0001220001302998C00	2998	autofocus sub-frame for target Waimiri - before dust removal tool (DRT) - standoff near 5 cm
		3705MH0001220011302999C00	2999	target Waimiri - before dust removal tool (DRT) - standoff near 5 cm
mhli00706	Waimiri after DRT ~25 cm standoff	3705MH0000706000130300OC00	3000	autofocus sub-frame for target Waimiri - after dust removal tool (DRT) - standoff near 25 cm
		3705MH0000706001130301C00	3001	target Waimiri - after dust removal tool (DRT) - standoff near 25 cm
		3705MH0000706002130302C00	3002	target Waimiri - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00763	Waimiri after DRT stereo-1 ~5 cm standoff	3705MH0000763000130300 3C00	3003	autofocus sub-frame for target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3705MH0000763001130300 4C00	3004	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3705MH0000763002130300 5C00	3005	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3705MH0000763003130300 6C00	3006	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3705MH0000763003130300 7C00	3007	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3705MH0000763003130300 8C00	3008	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3705MH0000763003130300 9C00	3009	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3705MH0000763003130301 0C00	3010	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3705MH0000763003130301 1C00	3011	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3705MH0000763003130301 2C00	3012	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3705MH0000763003130301 3C00	3013	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Waimiri after DRT stereo-2 ~5 cm standoff	3705MH0000763000130301 4C00	3014	autofocus sub-frame for target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3705MH0000763001130301 5C00	3015	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3705MH0000763002130301 6C00	3016	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3705MH0000763003130301 7C00	3017	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3705MH0000763003130301 8C00	3018	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3705MH0000763003130301 9C00	3019	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3705MH0000763003130302 0C00	3020	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3705MH0000763003130302 1C00	3021	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3705MH0000763003130302 2C00	3022	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3705MH0000763003130302 3C00	3023	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3705MH0000763003130302 4C00	3024	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00746	Waimiri after DRT ~2 cm standoff	3705MH0000746000130302 5C00	3025	autofocus sub-frame for target Waimiri - after dust removal tool (DRT) - standoff near 2 cm
		3705MH0000746001130302 6C00	3026	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm
		3705MH0000746002130302 7C00	3027	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - alternative auto-exposure
		3705MH0000746003130302 8C00	3028	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - image 1 in 8-image relative focus stack
		3705MH0000746003130302 9C00	3029	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - image 2 in 8-image relative focus stack
		3705MH0000746003130303 0C00	3030	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - image 3 in 8-image relative focus stack
		3705MH0000746003130303 1C00	3031	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - image 4 in 8-image relative focus stack
		3705MH0000746003130303 2C00	3032	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - image 5 in 8-image relative focus stack
		3705MH0000746003130303 3C00	3033	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - image 6 in 8-image relative focus stack
		3705MH0000746003130303 4C00	3034	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - image 7 in 8-image relative focus stack
		3705MH0000746003130303 5C00	3035	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00190	Caroebe ~25 cm standoff	3705MH0001900001303036C00	3036	autofocus sub-frame for target Caroebe - standoff near 25 cm
		3705MH0001900011303037C00	3037	target Caroebe - standoff near 25 cm
mhli00173	Caroebe stereo-1 ~5 cm standoff	3705MH0001730001303038C00	3038	autofocus sub-frame for target Caroebe - stereo-1 - standoff near 5 cm
		3705MH0001730011303039C00	3039	target Caroebe - stereo-1 - standoff near 5 cm
		3705MH0001730021303040C00	3040	target Caroebe - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3705MH0001730021303041C00	3041	target Caroebe - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3705MH0001730021303042C00	3042	target Caroebe - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3705MH0001730021303043C00	3043	target Caroebe - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3705MH0001730021303044C00	3044	target Caroebe - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3705MH0001730021303045C00	3045	target Caroebe - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3705MH0001730021303046C00	3046	target Caroebe - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3705MH0001730021303047C00	3047	target Caroebe - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Caroebe stereo-2 ~5 cm standoff	3705MH0001730001303048C00	3048	autofocus sub-frame for target Caroebe - stereo-2 - standoff near 5 cm
		3705MH0001730011303049C00	3049	target Caroebe - stereo-2 - standoff near 5 cm
		3705MH0001730021303050C00	3050	target Caroebe - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3705MH0001730021303051C00	3051	target Caroebe - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3705MH0001730021303052C00	3052	target Caroebe - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3705MH0001730021303053C00	3053	target Caroebe - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3705MH0001730021303054C00	3054	target Caroebe - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3705MH0001730021303055C00	3055	target Caroebe - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3705MH0001730021303056C00	3056	target Caroebe - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3705MH0001730021303057C00	3057	target Caroebe - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack

updated: 10_January_2023

Sol 3706 - MAHLI Images

acquired/performed date(s):	9-Jan-23
camera positions:	0
total parent images:	0
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	10

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3705 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00227	Focus Merges	3706MH0002270001303058R00	3058	target Caroebe - stereo-2 - standoff near 5 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3050-3057 - best focus image product
		3706MH0002270001303059S00	3059	target Caroebe - stereo-2 - standoff near 5 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3050-3057 - range map product
		3706MH0002270001303060R00	3060	target Caroebe - stereo-1 - standoff near 5 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3040-3047 - best focus image product
		3706MH0002270001303061S00	3061	target Caroebe - stereo-1 - standoff near 5 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3040-3047 - range map product
		3706MH0002270001303062R00	3062	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3028-3035 - best focus image product
		3706MH0002270001303063S00	3063	target Waimiri - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3028-3035 - range map product
		3706MH0002270001303064R00	3064	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3017-3024 - best focus image product
		3706MH0002270001303065S00	3065	target Waimiri - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3017-3024 - range map product
		3706MH0002270001303066R00	3066	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3006-3013 - best focus image product
		3706MH0002270001303067S00	3067	target Waimiri - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3705 with MSL CAMERA_PRODUCT_IDs 3006-3013 - range map product

updated: 12_January_2023

Sol 3708 - MAHLI Images

acquired/performed date(s):	11-Jan-23
camera positions:	4
total parent images:	36
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	42

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Jenipapo and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Jenipapo after DRT ~25 cm standoff	3708MH0007060001303068C00	3068	autofocus sub-frame for target Jenipapo - after dust removal tool (DRT) - standoff near 25 cm
		3708MH0007060011303069C00	3069	target Jenipapo - after dust removal tool (DRT) - standoff near 25 cm
		3708MH0007060021303070C00	3070	target Jenipapo - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00763	Jenipapo after DRT stereo-1 ~5 cm standoff	3708MH0007630001303071C00	3071	autofocus sub-frame for target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3708MH0007630011303072C00	3072	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3708MH0007630021303073C00	3073	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3708MH0007630031303074C00	3074	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3708MH0007630031303075C00	3075	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3708MH0007630031303076C00	3076	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3708MH0007630031303077C00	3077	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3708MH0007630031303078C00	3078	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3708MH0007630031303079C00	3079	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3708MH0007630031303080C00	3080	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3708MH0007630031303081C00	3081	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Jenipapo after DRT stereo-2 ~5 cm standoff	3708MH0007630001303082C00	3082	autofocus sub-frame for target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3708MH0007630011303083C00	3083	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3708MH0007630021303084C00	3084	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3708MH0007630031303085C00	3085	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3708MH0007630031303086C00	3086	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3708MH0007630031303087C00	3087	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3708MH0007630031303088C00	3088	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3708MH0007630031303089C00	3089	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3708MH0007630031303090C00	3090	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3708MH0007630031303091C00	3091	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3708MH0007630031303092C00	3092	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00794	Jenipapo after DRT ~1 cm standoff	3708MH0007940001303093C00	3093	autofocus sub-frame for target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm
		3708MH0007940011303094C00	3094	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm
		3708MH0007940021303095C00	3095	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3708MH0007940031303096C00	3096	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3708MH0007940031303097C00	3097	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3708MH0007940031303098C00	3098	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3708MH0007940031303099C00	3099	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3708MH0007940031303100C00	3100	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3708MH0007940031303101C00	3101	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3708MH0007940031303102C00	3102	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3708MH0007940031303103C00	3103	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3708MH0001930001303104R00	3104	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3708 with MSL CAMERA_PRODUCT_IDs 3096-3103 - best focus image product
		3708MH0001930001303105500	3105	target Jenipapo - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3708 with MSL CAMERA_PRODUCT_IDs 3096-3103 - range map product
		3708MH0001930001303106R00	3106	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3708 with MSL CAMERA_PRODUCT_IDs 3085-3092 - best focus image product
		3708MH0001930001303107500	3107	target Jenipapo - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3708 with MSL CAMERA_PRODUCT_IDs 3085-3092 - range map product
		3708MH0001930001303108R00	3108	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3708 with MSL CAMERA_PRODUCT_IDs 3074-3081 - best focus image product
		3708MH0001930001303109500	3109	target Jenipapo - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3708 with MSL CAMERA_PRODUCT_IDs 3074-3081 - range map product

updated: 12_October_2023

Sol 3712 - MAHLI Images

acquired/performed date(s):	15-Jan-23
camera positions:	13
total parent images:	82
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	82

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed targets Paredao and Curupira.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Paredao before DRT ~24 cm standoff	3712MH0001900001303110C00	3110	autofocus sub-frame for target Paredao - before dust removal tool (DRT) - standoff near 24 cm
		3712MH0001900011303111C00	3111	target Paredao - before dust removal tool (DRT) - standoff near 24 cm
mhli00122	Paredao before DRT ~5 cm standoff	3712MH0001220001303112C00	3112	autofocus sub-frame for target Paredao - before dust removal tool (DRT) - standoff near 5 cm
		3712MH0001220011303113C00	3113	target Paredao - before dust removal tool (DRT) - standoff near 5 cm
mhli00706	Curupira after DRT ~25 cm standoff	3712MH0007060001303114C00	3114	autofocus sub-frame for target Curupira - after dust removal tool (DRT) - standoff near 25 cm
		3712MH0007060011303115C00	3115	target Curupira - after dust removal tool (DRT) - standoff near 25 cm
		3712MH0007060021303116C00	3116	target Curupira - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00834	Curupira after DRT stereo-1 ~5 cm standoff	3712MH0008340001303117C00	3117	autofocus sub-frame for target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3712MH0008340011303118C00	3118	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3712MH0008340021303119C00	3119	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3712MH0008340031303120C00	3120	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3712MH0008340031303121C00	3121	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3712MH0008340031303122C00	3122	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3712MH0008340031303123C00	3123	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3712MH0008340031303124C00	3124	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3712MH0008340031303125C00	3125	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3712MH0008340031303126C00	3126	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3712MH0008340031303127C00	3127	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00834	Curupira after DRT stereo-2 ~5 cm standoff	3712MH0008340001303128C00	3128	autofocus sub-frame for target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3712MH0008340011303129C00	3129	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3712MH0008340021303130C00	3130	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3712MH0008340031303131C00	3131	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3712MH0008340031303132C00	3132	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3712MH0008340031303133C00	3133	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3712MH0008340031303134C00	3134	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3712MH0008340031303135C00	3135	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3712MH0008340031303136C00	3136	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3712MH0008340031303137C00	3137	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3712MH0008340031303138C00	3138	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00813	Curupira after DRT ~2 cm standoff	3712MH0008130001303139C00	3139	autofocus sub-frame for target Curupira - after dust removal tool (DRT) - standoff near 2 cm
		3712MH0008130011303140C00	3140	target Curupira - after dust removal tool (DRT) - standoff near 2 cm
		3712MH0008130021303141C00	3141	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - alternative auto-exposure
		3712MH0008130031303142C00	3142	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - image 1 in 8-image relative focus stack
		3712MH0008130031303143C00	3143	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - image 2 in 8-image relative focus stack
		3712MH0008130031303144C00	3144	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - image 3 in 8-image relative focus stack
		3712MH0008130031303145C00	3145	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - image 4 in 8-image relative focus stack
		3712MH0008130031303146C00	3146	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - image 5 in 8-image relative focus stack
		3712MH0008130031303147C00	3147	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - image 6 in 8-image relative focus stack
		3712MH0008130031303148C00	3148	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - image 7 in 8-image relative focus stack
		3712MH0008130031303149C00	3149	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00706	Paredao after DRT ~25 cm standoff	3712MH0007060001303150C00	3150	autofocus sub-frame for target Paredao - after dust removal tool (DRT) - standoff near 25 cm
		3712MH0007060011303151C00	3151	target Paredao - after dust removal tool (DRT) - standoff near 25 cm
		3712MH0007060021303152C00	3152	target Paredao - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00834	Paredao after DRT stereo-1 relief model position 1 ~5 cm standoff	3712MH0008340001303153C00	3153	autofocus sub-frame for target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm
		3712MH0008340011303154C00	3154	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm
		3712MH0008340021303155C00	3155	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - alternative auto-exposure
		3712MH0008340031303156C00	3156	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3712MH0008340031303157C00	3157	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3712MH0008340031303158C00	3158	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3712MH0008340031303159C00	3159	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3712MH0008340031303160C00	3160	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3712MH0008340031303161C00	3161	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3712MH0008340031303162C00	3162	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3712MH0008340031303163C00	3163	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00834	Paredao after DRT stereo-2 relief model position 2 ~5 cm standoff	3712MH0008340001303164C00	3164	autofocus sub-frame for target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm
		3712MH0008340011303165C00	3165	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm
		3712MH0008340021303166C00	3166	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - alternative auto-exposure
		3712MH0008340031303167C00	3167	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3712MH0008340031303168C00	3168	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3712MH0008340031303169C00	3169	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3712MH0008340031303170C00	3170	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3712MH0008340031303171C00	3171	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3712MH0008340031303172C00	3172	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3712MH0008340031303173C00	3173	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3712MH0008340031303174C00	3174	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00705	Paredao after DRT relief model position 3 ~5 cm standoff	3712MH0007050001303175C00	3175	autofocus sub-frame for target Paredao - after dust removal tool (DRT) - relief model position 3 - standoff near 5 cm
		3712MH0007050011303176C00	3176	target Paredao - after dust removal tool (DRT) - relief model position 3 - standoff near 5 cm
mhli00705	Paredao after DRT relief model position 4 ~5 cm standoff	3712MH0007050001303177C00	3177	autofocus sub-frame for target Paredao - after dust removal tool (DRT) - relief model position 4 - standoff near 5 cm
		3712MH0007050011303178C00	3178	target Paredao - after dust removal tool (DRT) - relief model position 4 - standoff near 5 cm

Continued on Next Page...

mhli00705	Paredao after DRT relief model position 5 ~5 cm standoff	3712MH000705000130317 9C00	3179	autofocus sub-frame for target Paredao - after dust removal tool (DRT) - relief model position 5 - standoff near 5 cm
		3712MH000705001130318 0C00	3180	target Paredao - after dust removal tool (DRT) - relief model position 5 - standoff near 5 cm
mhli00835	Paredao after DRT ~1 cm standoff	3712MH000835000130318 1C00	3181	autofocus sub-frame for target Paredao - after dust removal tool (DRT) - standoff near 1 cm
		3712MH000835001130318 2C00	3182	target Paredao - after dust removal tool (DRT) - standoff near 1 cm
		3712MH000835002130318 3C00	3183	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3712MH000835003130318 4C00	3184	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3712MH000835003130318 5C00	3185	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3712MH000835003130318 6C00	3186	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3712MH000835003130318 7C00	3187	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3712MH000835003130318 8C00	3188	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3712MH000835003130318 9C00	3189	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3712MH000835003130319 0C00	3190	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3712MH000835003130319 1C00	3191	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack

updated: 17_January_2023

Sol 3714 - MAHLI Images

acquired/performed date(s):	17-Jan-23
camera positions:	0
total parent images:	0
focus merges performed:	6
total focus merge products:	12
total parent images + focus merge products:	12

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from 3712 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00163	Focus Merges	3714MH0001630001303192R00	3192	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3184-3191 - best focus image product
		3714MH0001630001303193S00	3193	target Paredao - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3184-3191 - range map product
		3714MH0001630001303194R00	3194	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3167-3174 - best focus image product
		3714MH0001630001303195S00	3195	target Paredao - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3167-3174 - range map product
		3714MH0001630001303196R00	3196	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3156-3163 - best focus image product
		3714MH0001630001303197S00	3197	target Paredao - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3156-3163 - range map product
		3714MH0001630001303198R00	3198	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3142-3149 - best focus image product
		3714MH0001630001303199S00	3199	target Curupira - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3142-3149 - range map product
		3714MH0001630001303200R00	3200	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3131-3138 - best focus image product
		3714MH0001630001303201S00	3201	target Curupira - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3131-3138 - range map product
		3714MH0001630001303202R00	3202	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3120-3127 - best focus image product
		3714MH0001630001303203S00	3203	target Curupira - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3712 with MSL CAMERA_PRODUCT_IDs 3120-3127 - range map product

updated: 26_January_2023

Sol 3715 - MAHLI Images

acquired/performed date(s):	18-Jan-23
camera positions:	4
total parent images:	36
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	42

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Tarra and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Tarra after DRT ~24 cm standoff	3715MH0007060001303204C00	3204	autofocus sub-frame for target Tarra - after dust removal tool (DRT) - standoff near 24 cm
		3715MH0007060011303205C00	3205	target Tarra - after dust removal tool (DRT) - standoff near 24 cm
		3715MH0007060021303206C00	3206	target Tarra - after dust removal tool (DRT) - standoff near 24 cm - alternative auto-exposure
mhli00763	Tarra after DRT stereo-1 ~5 cm standoff	3715MH0007630001303207C00	3207	autofocus sub-frame for target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3715MH0007630011303208C00	3208	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3715MH0007630021303209C00	3209	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3715MH0007630031303210C00	3210	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3715MH0007630031303211C00	3211	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3715MH0007630031303212C00	3212	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3715MH0007630031303213C00	3213	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3715MH0007630031303214C00	3214	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3715MH0007630031303215C00	3215	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3715MH0007630031303216C00	3216	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3715MH0007630031303217C00	3217	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Tarra after DRT stereo-2 ~5 cm standoff	3715MH0007630001303218C00	3218	autofocus sub-frame for target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3715MH0007630011303219C00	3219	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3715MH0007630021303220C00	3220	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3715MH0007630031303221C00	3221	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3715MH0007630031303222C00	3222	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3715MH0007630031303223C00	3223	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3715MH0007630031303224C00	3224	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3715MH0007630031303225C00	3225	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3715MH0007630031303226C00	3226	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3715MH0007630031303227C00	3227	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3715MH0007630031303228C00	3228	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00835	Tarra after DRT ~1 cm standoff	3715MH0008350001303229C00	3229	autofocus sub-frame for target Tarra - after dust removal tool (DRT) - standoff near 1 cm
		3715MH0008350011303230C00	3230	target Tarra - after dust removal tool (DRT) - standoff near 1 cm
		3715MH0008350021303231C00	3231	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3715MH0008350031303232C00	3232	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3715MH0008350031303233C00	3233	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3715MH0008350031303234C00	3234	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3715MH0008350031303235C00	3235	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3715MH0008350031303236C00	3236	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3715MH0008350031303237C00	3237	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3715MH0008350031303238C00	3238	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3715MH0008350031303239C00	3239	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3715MH0001930001303240R00	3240	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3715 with MSL CAMERA_PRODUCT_IDs 3232-3239 - best focus image product
		3715MH0001930001303241S00	3241	target Tarra - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3715 with MSL CAMERA_PRODUCT_IDs 3232-3239 - range map product
		3715MH0001930001303242R00	3242	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3715 with MSL CAMERA_PRODUCT_IDs 3221-3228 - best focus image product
		3715MH0001930001303243S00	3243	target Tarra - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3715 with MSL CAMERA_PRODUCT_IDs 3221-3228 - range map product
		3715MH0001930001303244R00	3244	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3715 with MSL CAMERA_PRODUCT_IDs 3210-3217 - best focus image product
		3715MH0001930001303245S00	3245	target Tarra - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3715 with MSL CAMERA_PRODUCT_IDs 3210-3217 - range map product

updated: 12_October_2023

Sol 3716 - MAHLI Images

acquired/performed date(s):	19-Jan-23
camera positions:	8
total parent images:	53
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	61

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the intended drill target Encanto before and after DRT and after a drill bit preload test. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Encanto before DRT ~25 cm standoff	3716MH0001900001303246C00	3246	autofocus sub-frame for intended Encanto drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3716MH0001900011303247C00	3247	intended Encanto drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
mhli00122	Encanto before DRT APXS spot 2 ~5 cm standoff	3716MH0001220001303248C00	3248	autofocus sub-frame for intended Encanto drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
		3716MH0001220011303249C00	3249	intended Encanto drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
mhli00706	Encanto after DRT ~25 cm standoff	3716MH0007060001303250C00	3250	autofocus sub-frame for intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3716MH0007060011303251C00	3251	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3716MH0007060021303252C00	3252	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm - alternative auto-exposure
mhli00763	Encanto after DRT APXS spot 2 stereo-1 ~5 cm standoff	3716MH0007630001303253C00	3253	autofocus sub-frame for intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3716MH0007630011303254C00	3254	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3716MH0007630021303255C00	3255	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3716MH0007630031303256C00	3256	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3716MH0007630031303257C00	3257	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3716MH0007630031303258C00	3258	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3716MH0007630031303259C00	3259	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3716MH0007630031303260C00	3260	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3716MH0007630031303261C00	3261	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3716MH0007630031303262C00	3262	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3716MH0007630031303263C00	3263	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Encanto after DRT APXS spot 2 stereo-2 ~5 cm standoff	3716MH0007630001303264C00	3264	autofocus sub-frame for intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3716MH0007630011303265C00	3265	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3716MH0007630021303266C00	3266	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3716MH0007630031303267C00	3267	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3716MH0007630031303268C00	3268	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3716MH0007630031303269C00	3269	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3716MH0007630031303270C00	3270	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3716MH0007630031303271C00	3271	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3716MH0007630031303272C00	3272	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3716MH0007630031303273C00	3273	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3716MH0007630031303274C00	3274	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00813	Encanto after DRT APXS spot 2 ~2 cm standoff	3716MH0008130001303275C00	3275	autofocus sub-frame for intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm
		3716MH0008130011303276C00	3276	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm
		3716MH0008130021303277C00	3277	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - alternative auto-exposure
		3716MH0008130031303278C00	3278	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 1 in 8-image relative focus stack
		3716MH0008130031303279C00	3279	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 2 in 8-image relative focus stack
		3716MH0008130031303280C00	3280	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 3 in 8-image relative focus stack
		3716MH0008130031303281C00	3281	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 4 in 8-image relative focus stack
		3716MH0008130031303282C00	3282	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 5 in 8-image relative focus stack
		3716MH0008130031303283C00	3283	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 6 in 8-image relative focus stack
		3716MH0008130031303284C00	3284	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 7 in 8-image relative focus stack
		3716MH0008130031303285C00	3285	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00763	Encanto after DRT APXS spot 1 ~5 cm standoff	3716MH0007630001303286C00	3286	autofocus sub-frame for intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3716MH0007630011303287C00	3287	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3716MH0007630021303288C00	3288	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - alternative auto-exposure
		3716MH0007630031303289C00	3289	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3716MH0007630031303290C00	3290	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3716MH0007630031303291C00	3291	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3716MH0007630031303292C00	3292	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3716MH0007630031303293C00	3293	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3716MH0007630031303294C00	3294	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3716MH0007630031303295C00	3295	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3716MH0007630031303296C00	3296	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00465	Encanto after DRT after drill bit preload test ~35 cm standoff	3716MH0004650001303297C00	3297	autofocus sub-frame for intended Encanto drill site - drill bit preload test - image acquired after preload - after sol 3716 dust removal tool (DRT) - standoff near 35 cm
		3716MH0004650011303298C00	3298	intended Encanto drill site - drill bit preload test - image acquired after preload - after sol 3716 dust removal tool (DRT) - standoff near 35 cm
mhli00153	Focus Merges	3716MH0001530001303299R00	3299	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3716 with MSL CAMERA_PRODUCT_IDs 3289-3296 - best focus image product
		3716MH0001530001303300S00	3300	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3716 with MSL CAMERA_PRODUCT_IDs 3289-3296 - range map product
		3716MH0001530001303301R00	3301	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3716 with MSL CAMERA_PRODUCT_IDs 3278-3285 - best focus image product
		3716MH0001530001303302S00	3302	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3716 with MSL CAMERA_PRODUCT_IDs 3278-3285 - range map product
		3716MH0001530001303303R00	3303	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3716 with MSL CAMERA_PRODUCT_IDs 3267-3274 - best focus image product
		3716MH0001530001303304S00	3304	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3716 with MSL CAMERA_PRODUCT_IDs 3267-3274 - range map product
		3716MH0001530001303305R00	3305	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3716 with MSL CAMERA_PRODUCT_IDs 3256-3263 - best focus image product
		3716MH0001530001303306S00	3306	intended Encanto drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3716 with MSL CAMERA_PRODUCT_IDs 3256-3263 - range map product

updated: 27_January_2023

Sol 3718 - MAHLI Images

acquired/performed date(s):	21-Jan-23	
camera positions:	2	**Image ID:**
total parent images:	4	black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received
focus merges performed:	0	**CDPID:**
total focus merge products:	0	Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels
total parent images + focus merge products:	4	

summary of MAHLI activities: Drill preparation activities at the planned Encanto sample extraction site. MAHLI imaged the intended site for the Encanto sample discard pile.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789 01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
mhli00190	Intended Encanto Drill Sample Discard Site Before Discard ~24 cm standoff	3718MH0001900001303307C00	3307	autofocus sub-frame for intended Encanto drill sample discard site - before drill attempt and before discard - standoff near 24 cm
		3718MH0001900011303308C00	3308	intended Encanto drill sample discard site - before drill attempt and before discard - standoff near 24 cm
mhli00122	Intended Encanto Drill Sample Discard Site Before Discard ~45 mm standoff	3718MH0001220001303309C00	3309	autofocus sub-frame for intended Encanto drill sample discard site - before drill attempt and before discard - standoff near 45 mm
		3718MH0001220011303310C00	3310	intended Encanto drill sample discard site - before drill attempt and before discard - standoff near 45 mm

updated: 30_January_2023

Sol 3721 - MAHLI Images

acquired/performed date(s):	24-Jan-23
camera positions:	5
total parent images:	34
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	40

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the attempted (Sol 3718) Encanto drill hole and the Encanto drill cuttings. The focus stack images were merged as well.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Encanto drill hole attempt drilled on Sol 3718 ~24 cm standoff	3721MH0001900001303311C00	3311	autofocus sub-frame for attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 24 cm
		3721MH0001900011303312C00	3312	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 24 cm
mhli00774	Encanto drill hole attempt drilled on Sol 3718 ~10 cm standoff	3721MH0007740001303313C00	3313	autofocus sub-frame for attempted drill hole in rock named Encanto - drilled sol 3718 - sub-frame positioned to focus on surface outside hole - standoff near 10 cm
		3721MH0007740011303314C00	3314	attempted drill hole in rock named Encanto - drilled sol 3718 - focus based on preceding autofocus sub-frame - standoff near 10 cm
mhli00224	Encanto drill hole attempt drilled on Sol 3718 ~5 cm standoff	3721MH0002240001303315C00	3315	autofocus sub-frame for attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm
		3721MH0002240011303316C00	3316	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm
		3721MH0002240021303317C00	3317	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3721MH0002240021303318C00	3318	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3721MH0002240021303319C00	3319	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3721MH0002240021303320C00	3320	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3721MH0002240021303321C00	3321	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3721MH0002240021303322C00	3322	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3721MH0002240021303323C00	3323	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3721MH0002240021303324C00	3324	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Encanto drill cuttings after sol 3718 drill attempt stereo-1 ~5 cm standoff	3721MH0001730001303325C00	3325	autofocus sub-frame for Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm
		3721MH0001730011303326C00	3326	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm
		3721MH0001730021303327C00	3327	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3721MH0001730021303328C00	3328	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3721MH0001730021303329C00	3329	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3721MH0001730021303330C00	3330	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3721MH0001730021303331C00	3331	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3721MH0001730021303332C00	3332	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3721MH0001730021303333C00	3333	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3721MH0001730021303334C00	3334	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Encanto drill cuttings after sol 3718 drill attempt stereo-2 ~5 cm standoff	3721MH0001730001303335C00	3335	autofocus sub-frame for Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm
		3721MH0001730011303336C00	3336	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm
		3721MH0001730021303337C00	3337	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3721MH0001730021303338C00	3338	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3721MH0001730021303339C00	3339	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3721MH0001730021303340C00	3340	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3721MH0001730021303341C00	3341	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3721MH0001730021303342C00	3342	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3721MH0001730021303343C00	3343	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3721MH0001730021303344C00	3344	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3721MH0001930001303345R00	3345	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - focus stack acquired sol 3721 with MSL CAMERA_PRODUCT_IDs 3337-3344 - best focus image product
		3721MH0001930001303346S00	3346	Encanto drill cuttings - after sol 3718 drill attempt - stereo-2 - standoff near 5 cm - focus stack acquired sol 3721 with MSL CAMERA_PRODUCT_IDs 3337-3344 - range map product
		3721MH0001930001303347R00	3347	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - focus stack acquired sol 3721 with MSL CAMERA_PRODUCT_IDs 3327-3334 - best focus image product
		3721MH0001930001303348S00	3348	Encanto drill cuttings - after sol 3718 drill attempt - stereo-1 - standoff near 5 cm - focus stack acquired sol 3721 with MSL CAMERA_PRODUCT_IDs 3327-3334 - range map product
		3721MH0001930001303349R00	3349	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - focus stack acquired sol 3721 with MSL CAMERA_PRODUCT_IDs 3317-3324 - best focus image product
		3721MH0001930001303350S00	3350	attempted drill hole in rock named Encanto - drilled sol 3718 - standoff near 5 cm - focus stack acquired sol 3721 with MSL CAMERA_PRODUCT_IDs 3317-3324 - range map product

updated: 14_February_2023

Sol 3723 - MAHLI Images

acquired/performed date(s):	~~26-Jan-23~~
camera positions:	10
total parent images:	92
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	92

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets El_Descanso and Peters_Mine. MAHLI also acquired a 4x1 mosaic on the target Semang_Peak.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	El_Descanso ~25 cm standoff	3723MH0001900001303351C00	3351	autofocus sub-frame for target El_Descanso - standoff near 25 cm
		3723MH0001900011303352C00	3352	target El_Descanso - standoff near 25 cm
mhli00168	El_Descanso stereo-1 ~5 cm standoff	3723MH0001680001303353C00	3353	autofocus sub-frame for target El_Descanso - stereo-1 - standoff near 5 cm
		3723MH0001680011303354C00	3354	target El_Descanso - stereo-1 - standoff near 5 cm
		3723MH0001680021303355C00	3355	target El_Descanso - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3723MH0001680021303356C00	3356	target El_Descanso - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3723MH0001680021303357C00	3357	target El_Descanso - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3723MH0001680021303358C00	3358	target El_Descanso - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3723MH0001680021303359C00	3359	target El_Descanso - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3723MH0001680021303360C00	3360	target El_Descanso - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3723MH0001680021303361C00	3361	target El_Descanso - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3723MH0001680021303362C00	3362	target El_Descanso - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00168	El_Descanso stereo-2 ~5 cm standoff	3723MH0001680001303363C00	3363	autofocus sub-frame for target El_Descanso - stereo-2 - standoff near 5 cm
		3723MH0001680011303364C00	3364	target El_Descanso - stereo-2 - standoff near 5 cm
		3723MH0001680021303365C00	3365	target El_Descanso - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3723MH0001680021303366C00	3366	target El_Descanso - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3723MH0001680021303367C00	3367	target El_Descanso - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3723MH0001680021303368C00	3368	target El_Descanso - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3723MH0001680021303369C00	3369	target El_Descanso - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3723MH0001680021303370C00	3370	target El_Descanso - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3723MH0001680021303371C00	3371	target El_Descanso - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3723MH0001680021303372C00	3372	target El_Descanso - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00359	Peters_Mine ~24 cm standoff	3723MH0003590001303373C00	3373	autofocus sub-frame for target Peters_Mine - standoff near 24 cm
		3723MH0003590011303374C00	3374	target Peters_Mine - standoff near 24 cm
		3723MH0003590021303375C00	3375	target Peters_Mine - standoff near 24 cm - image 1 in 8-image relative focus stack
		3723MH0003590021303376C00	3376	target Peters_Mine - standoff near 24 cm - image 2 in 8-image relative focus stack
		3723MH0003590021303377C00	3377	target Peters_Mine - standoff near 24 cm - image 3 in 8-image relative focus stack
		3723MH0003590021303378C00	3378	target Peters_Mine - standoff near 24 cm - image 4 in 8-image relative focus stack
		3723MH0003590021303379C00	3379	target Peters_Mine - standoff near 24 cm - image 5 in 8-image relative focus stack
		3723MH0003590021303380C00	3380	target Peters_Mine - standoff near 24 cm - image 6 in 8-image relative focus stack
		3723MH0003590021303381C00	3381	target Peters_Mine - standoff near 24 cm - image 7 in 8-image relative focus stack
		3723MH0003590021303382C00	3382	target Peters_Mine - standoff near 24 cm - image 8 in 8-image relative focus stack
mhli00306	Peters_Mine stereo-1 ~35 mm standoff	3723MH0003060001303383C00	3383	autofocus sub-frame for target Peters_Mine - stereo-1 - standoff near 35 mm
		3723MH0003060011303384C00	3384	target Peters_Mine - stereo-1 - standoff near 35 mm
		3723MH0003060021303385C00	3385	target Peters_Mine - stereo-1 - standoff near 35 mm - image 1 in 8-image relative focus stack
		3723MH0003060021303386C00	3386	target Peters_Mine - stereo-1 - standoff near 35 mm - image 2 in 8-image relative focus stack
		3723MH0003060021303387C00	3387	target Peters_Mine - stereo-1 - standoff near 35 mm - image 3 in 8-image relative focus stack
		3723MH0003060021303388C00	3388	target Peters_Mine - stereo-1 - standoff near 35 mm - image 4 in 8-image relative focus stack
		3723MH0003060021303389C00	3389	target Peters_Mine - stereo-1 - standoff near 35 mm - image 5 in 8-image relative focus stack
		3723MH0003060021303390C00	3390	target Peters_Mine - stereo-1 - standoff near 35 mm - image 6 in 8-image relative focus stack
		3723MH0003060021303391C00	3391	target Peters_Mine - stereo-1 - standoff near 35 mm - image 7 in 8-image relative focus stack
		3723MH0003060021303392C00	3392	target Peters_Mine - stereo-1 - standoff near 35 mm - image 8 in 8-image relative focus stack
mhli00306	Peters_Mine stereo-2 ~35 mm standoff	3723MH0003060001303393C00	3393	autofocus sub-frame for target Peters_Mine - stereo-2 - standoff near 35 mm
		3723MH0003060011303394C00	3394	target Peters_Mine - stereo-2 - standoff near 35 mm
		3723MH0003060021303395C00	3395	target Peters_Mine - stereo-2 - standoff near 35 mm - image 1 in 8-image relative focus stack
		3723MH0003060021303396C00	3396	target Peters_Mine - stereo-2 - standoff near 35 mm - image 2 in 8-image relative focus stack
		3723MH0003060021303397C00	3397	target Peters_Mine - stereo-2 - standoff near 35 mm - image 3 in 8-image relative focus stack
		3723MH0003060021303398C00	3398	target Peters_Mine - stereo-2 - standoff near 35 mm - image 4 in 8-image relative focus stack
		3723MH0003060021303399C00	3399	target Peters_Mine - stereo-2 - standoff near 35 mm - image 5 in 8-image relative focus stack
		3723MH0003060021303400C00	3400	target Peters_Mine - stereo-2 - standoff near 35 mm - image 6 in 8-image relative focus stack
		3723MH0003060021303401C00	3401	target Peters_Mine - stereo-2 - standoff near 35 mm - image 7 in 8-image relative focus stack
		3723MH0003060021303402C00	3402	target Peters_Mine - stereo-2 - standoff near 35 mm - image 8 in 8-image relative focus stack
mhli00859	Semang_Peak mosaic position 1 of 4 ~10 cm standoff	3723MH0008590001303403C00	3403	autofocus sub-frame for target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm
		3723MH0008590011303404C00	3404	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm
		3723MH0008590021303405C00	3405	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - image 1 in 8-image relative focus stack
		3723MH0008590021303406C00	3406	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - image 2 in 8-image relative focus stack
		3723MH0008590021303407C00	3407	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - image 3 in 8-image relative focus stack
		3723MH0008590021303408C00	3408	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - image 4 in 8-image relative focus stack
		3723MH0008590021303409C00	3409	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - image 5 in 8-image relative focus stack
		3723MH0008590021303410C00	3410	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - image 6 in 8-image relative focus stack
		3723MH0008590021303411C00	3411	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - image 7 in 8-image relative focus stack
		3723MH0008590021303412C00	3412	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00859	Semang_Peak mosaic position 2 of 4 ~14 cm standoff	3723MH0008590001303413C00	3413	autofocus sub-frame for target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm
		3723MH0008590011303414C00	3414	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm
		3723MH0008590021303415C00	3415	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - image 1 in 8-image relative focus stack
		3723MH0008590021303416C00	3416	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - image 2 in 8-image relative focus stack
		3723MH0008590021303417C00	3417	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - image 3 in 8-image relative focus stack
		3723MH0008590021303418C00	3418	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - image 4 in 8-image relative focus stack
		3723MH0008590021303419C00	3419	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - image 5 in 8-image relative focus stack
		3723MH0008590021303420C00	3420	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - image 6 in 8-image relative focus stack
		3723MH0008590021303421C00	3421	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - image 7 in 8-image relative focus stack
		3723MH0008590021303422C00	3422	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - image 8 in 8-image relative focus stack
mhli00859	Semang_Peak mosaic position 3 of 4 ~95 mm standoff	3723MH0008590001303423C00	3423	autofocus sub-frame for target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm
		3723MH0008590011303424C00	3424	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm
		3723MH0008590021303425C00	3425	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - image 1 in 8-image relative focus stack
		3723MH0008590021303426C00	3426	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - image 2 in 8-image relative focus stack
		3723MH0008590021303427C00	3427	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - image 3 in 8-image relative focus stack
		3723MH0008590021303428C00	3428	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - image 4 in 8-image relative focus stack
		3723MH0008590021303429C00	3429	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - image 5 in 8-image relative focus stack
		3723MH0008590021303430C00	3430	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - image 6 in 8-image relative focus stack
		3723MH0008590021303431C00	3431	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - image 7 in 8-image relative focus stack
		3723MH0008590021303432C00	3432	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - image 8 in 8-image relative focus stack
mhli00859	Semang_Peak mosaic position 4 of 4 ~95 mm standoff	3723MH0008590001303433C00	3433	autofocus sub-frame for target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm
		3723MH0008590011303434C00	3434	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm
		3723MH0008590021303435C00	3435	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - image 1 in 8-image relative focus stack
		3723MH0008590021303436C00	3436	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - image 2 in 8-image relative focus stack
		3723MH0008590021303437C00	3437	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - image 3 in 8-image relative focus stack
		3723MH0008590021303438C00	3438	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - image 4 in 8-image relative focus stack
		3723MH0008590021303439C00	3439	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - image 5 in 8-image relative focus stack
		3723MH0008590021303440C00	3440	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - image 6 in 8-image relative focus stack
		3723MH0008590021303441C00	3441	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - image 7 in 8-image relative focus stack
		3723MH0008590021303442C00	3442	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - image 8 in 8-image relative focus stack

updated: 30_January_2023

Sol 3724 - MAHLI Images

acquired/performed date(s):	27-Jan-23
camera positions:	0
total parent images:	0
focus merges performed:	9
total focus merge products:	18
total parent images + focus merge products:	18

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3723 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00536	Focus Merges	3724MH0005360001303443R00	3443	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3435-3442 - best focus image product
		3724MH0005360001303444S00	3444	target Semang_Peak - mosaic position 4 of 4 - standoff near 95 mm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3435-3442 - range map product
		3724MH0005360001303445R00	3445	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3425-3432 - best focus image product
		3724MH0005360001303446S00	3446	target Semang_Peak - mosaic position 3 of 4 - standoff near 95 mm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3425-3432 - range map product
		3724MH0005360001303447R00	3447	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3415-3422 - best focus image product
		3724MH0005360001303448S00	3448	target Semang_Peak - mosaic position 2 of 4 - standoff near 14 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3415-3422 - range map product
		3724MH0005360001303449R00	3449	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3405-3412 - best focus image product
		3724MH0005360001303450S00	3450	target Semang_Peak - mosaic position 1 of 4 - standoff near 10 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3405-3412 - range map product
		3724MH0005360001303451R00	3451	target Peters_Mine - stereo-2 - standoff near 35 mm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3395-3402 - best focus image product
		3724MH0005360001303452S00	3452	target Peters_Mine - stereo-2 - standoff near 35 mm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3395-3402 - range map product
		3724MH0005360001303453R00	3453	target Peters_Mine - stereo-1 - standoff near 35 mm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3385-3392 - best focus image product
		3724MH0005360001303454S00	3454	target Peters_Mine - stereo-1 - standoff near 35 mm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3385-3392 - range map product
		3724MH0005360001303455R00	3455	target Peters_Mine - standoff near 24 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3375-3382 - best focus image product
		3724MH0005360001303456S00	3456	target Peters_Mine - standoff near 24 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3375-3382 - range map product
		3724MH0005360001303457R00	3457	target El_Descanso - stereo-2 - standoff near 5 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3365-3372 - best focus image product
		3724MH0005360001303458S00	3458	target El_Descanso - stereo-2 - standoff near 5 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3365-3372 - range map product
		3724MH0005360001303459R00	3459	target El_Descanso - stereo-1 - standoff near 5 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3355-3362 - best focus image product
		3724MH0005360001303460S00	3460	target El_Descanso - stereo-1 - standoff near 5 cm - focus stack acquired sol 3723 with MSL CAMERA_PRODUCT_IDs 3355-3362 - range map product

updated: 14_February_2023

Sol 3725 - MAHLI Images

acquired/performed date(s):	28-Jan-23
camera positions:	8
total parent images:	64
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	64

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Curare and Cururu on the boulder named Cacao.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Curare ~25 cm standoff	3725MH0001900001303461C00	3461	autofocus sub-frame for target Curare on boulder named Cacao - standoff near 25 cm
		3725MH0001900011303462C00	3462	target Curare on boulder named Cacao - standoff near 25 cm
mhli00152	Curare stereo-1 ~5 cm standoff	3725MH0001520001303463C00	3463	autofocus sub-frame for target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm
		3725MH0001520011303464C00	3464	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm
		3725MH0001520021303465C00	3465	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3725MH0001520021303466C00	3466	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3725MH0001520021303467C00	3467	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3725MH0001520021303468C00	3468	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3725MH0001520021303469C00	3469	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3725MH0001520021303470C00	3470	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3725MH0001520021303471C00	3471	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3725MH0001520021303472C00	3472	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00152	Curare stereo-2 ~5 cm standoff	3725MH0001520001303473C00	3473	autofocus sub-frame for target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm
		3725MH0001520011303474C00	3474	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm
		3725MH0001520021303475C00	3475	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3725MH0001520021303476C00	3476	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3725MH0001520021303477C00	3477	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3725MH0001520021303478C00	3478	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3725MH0001520021303479C00	3479	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3725MH0001520021303480C00	3480	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3725MH0001520021303481C00	3481	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3725MH0001520021303482C00	3482	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00796	Curare ~1 cm standoff	3725MH0007960001303483C00	3483	autofocus sub-frame for target Curare on boulder named Cacao - standoff near 1 cm
		3725MH0007960011303484C00	3484	target Curare on boulder named Cacao - standoff near 1 cm
		3725MH0007960021303485C00	3485	target Curare on boulder named Cacao - standoff near 1 cm - image 1 in 8-image relative focus stack
		3725MH0007960021303486C00	3486	target Curare on boulder named Cacao - standoff near 1 cm - image 2 in 8-image relative focus stack
		3725MH0007960021303487C00	3487	target Curare on boulder named Cacao - standoff near 1 cm - image 3 in 8-image relative focus stack
		3725MH0007960021303488C00	3488	target Curare on boulder named Cacao - standoff near 1 cm - image 4 in 8-image relative focus stack
		3725MH0007960021303489C00	3489	target Curare on boulder named Cacao - standoff near 1 cm - image 5 in 8-image relative focus stack
		3725MH0007960021303490C00	3490	target Curare on boulder named Cacao - standoff near 1 cm - image 6 in 8-image relative focus stack
		3725MH0007960021303491C00	3491	target Curare on boulder named Cacao - standoff near 1 cm - image 7 in 8-image relative focus stack
		3725MH0007960021303492C00	3492	target Curare on boulder named Cacao - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00190	Cururu ~25 cm standoff	3725MH0001900001303493C00	3493	autofocus sub-frame for target Cururu on boulder named Cacao - standoff near 25 cm
		3725MH0001900011303494C00	3494	target Cururu on boulder named Cacao - standoff near 25 cm
mhli00306	Cururu stereo-1 ~5 cm standoff	3725MH0003060001303495C00	3495	autofocus sub-frame for target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm
		3725MH0003060011303496C00	3496	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm
		3725MH0003060021303497C00	3497	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3725MH0003060021303498C00	3498	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3725MH0003060021303499C00	3499	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3725MH0003060021303500C00	3500	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3725MH0003060021303501C00	3501	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3725MH0003060021303502C00	3502	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3725MH0003060021303503C00	3503	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3725MH0003060021303504C00	3504	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00306	Cururu stereo-2 ~45 mm standoff	3725MH0003060001303505C00	3505	autofocus sub-frame for target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm
		3725MH0003060011303506C00	3506	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm
		3725MH0003060021303507C00	3507	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3725MH0003060021303508C00	3508	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3725MH0003060021303509C00	3509	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3725MH0003060021303510C00	3510	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3725MH0003060021303511C00	3511	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3725MH0003060021303512C00	3512	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3725MH0003060021303513C00	3513	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3725MH0003060021303514C00	3514	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00176	Cururu ~2 cm standoff	3725MH0001760001303515C00	3515	autofocus sub-frame for target Cururu on boulder named Cacao - standoff near 2 cm
		3725MH0001760011303516C00	3516	target Cururu on boulder named Cacao - standoff near 2 cm
		3725MH0001760021303517C00	3517	target Cururu on boulder named Cacao - standoff near 2 cm - image 1 in 8-image relative focus stack
		3725MH0001760021303518C00	3518	target Cururu on boulder named Cacao - standoff near 2 cm - image 2 in 8-image relative focus stack
		3725MH0001760021303519C00	3519	target Cururu on boulder named Cacao - standoff near 2 cm - image 3 in 8-image relative focus stack
		3725MH0001760021303520C00	3520	target Cururu on boulder named Cacao - standoff near 2 cm - image 4 in 8-image relative focus stack
		3725MH0001760021303521C00	3521	target Cururu on boulder named Cacao - standoff near 2 cm - image 5 in 8-image relative focus stack
		3725MH0001760021303522C00	3522	target Cururu on boulder named Cacao - standoff near 2 cm - image 6 in 8-image relative focus stack
		3725MH0001760021303523C00	3523	target Cururu on boulder named Cacao - standoff near 2 cm - image 7 in 8-image relative focus stack
		3725MH0001760021303524C00	3524	target Cururu on boulder named Cacao - standoff near 2 cm - image 8 in 8-image relative focus stack

updated: 30_January_2023

Sol 3727 - MAHLI Images

acquired/performed date(s):	30-Jan-23
camera positions:	0
total parent images:	0
focus merges performed:	6
total focus merge products:	12
total parent images + focus merge products:	12

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3725 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00163	Focus Merges	3727MH0001630001303525R00	3525	target Cururu on boulder named Cacao - standoff near 2 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3517-3524 - best focus image product
		3727MH0001630001303526S00	3526	target Cururu on boulder named Cacao - standoff near 2 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3517-3524 - range map product
		3727MH0001630001303527R00	3527	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3507-3514 - best focus image product
		3727MH0001630001303528S00	3528	target Cururu on boulder named Cacao - stereo-2 - standoff near 45 mm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3507-3514 - range map product
		3727MH0001630001303529R00	3529	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3497-3504 - best focus image product
		3727MH0001630001303530S00	3530	target Cururu on boulder named Cacao - stereo-1 - standoff near 5 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3497-3504 - range map product
		3727MH0001630001303531R00	3531	target Curare on boulder named Cacao - standoff near 1 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3485-3492 - best focus image product
		3727MH0001630001303532S00	3532	target Curare on boulder named Cacao - standoff near 1 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3485-3492 - range map product
		3727MH0001630001303533R00	3533	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3475-3482 - best focus image product
		3727MH0001630001303534S00	3534	target Curare on boulder named Cacao - stereo-2 - standoff near 5 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3475-3482 - range map product
		3727MH0001630001303535R00	3535	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3465-3472 - best focus image product
		3727MH0001630001303536S00	3536	target Curare on boulder named Cacao - stereo-1 - standoff near 5 cm - focus stack acquired sol 3725 with MSL CAMERA_PRODUCT_IDs 3465-3472 - range map product

updated: 14_February_2023

Sol 3728 - MAHLI Images

acquired/performed date(s):	31-Jan-23
camera positions:	3
total parent images:	22
focus merges performed:	2
total focus merge products:	4
total parent images + focus merge products:	26

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Primavera and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Primavera ~25 cm standoff	3728MH0001900001303537C00	3537	autofocus sub-frame for target Primavera - standoff near 25 cm
		3728MH0001900011303538C00	3538	target Primavera - standoff near 25 cm
mhli00173	Primavera stereo-1 ~5 cm standoff	3728MH0001730001303539C00	3539	autofocus sub-frame for target Primavera - stereo-1 - standoff near 5 cm
		3728MH0001730011303540C00	3540	target Primavera - stereo-1 - standoff near 5 cm
		3728MH0001730021303541C00	3541	target Primavera - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3728MH0001730021303542C00	3542	target Primavera - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3728MH0001730021303543C00	3543	target Primavera - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3728MH0001730021303544C00	3544	target Primavera - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3728MH0001730021303545C00	3545	target Primavera - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3728MH0001730021303546C00	3546	target Primavera - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3728MH0001730021303547C00	3547	target Primavera - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3728MH0001730021303548C00	3548	target Primavera - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Primavera stereo-2 ~5 cm standoff	3728MH0001730001303549C00	3549	autofocus sub-frame for target Primavera - stereo-2 - standoff near 5 cm
		3728MH0001730011303550C00	3550	target Primavera - stereo-2 - standoff near 5 cm
		3728MH0001730021303551C00	3551	target Primavera - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3728MH0001730021303552C00	3552	target Primavera - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3728MH0001730021303553C00	3553	target Primavera - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3728MH0001730021303554C00	3554	target Primavera - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3728MH0001730021303555C00	3555	target Primavera - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3728MH0001730021303556C00	3556	target Primavera - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3728MH0001730021303557C00	3557	target Primavera - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3728MH0001730021303558C00	3558	target Primavera - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00265	Focus Merges	3728MH0002650001303559R00	3559	target Primavera - stereo-2 - standoff near 5 cm - focus stack acquired sol 3728 with MSL CAMERA_PRODUCT_IDs 3551-3558 - best focus image product
		3728MH0002650001303560S00	3560	target Primavera - stereo-2 - standoff near 5 cm - focus stack acquired sol 3728 with MSL CAMERA_PRODUCT_IDs 3551-3558 - range map product
		3728MH0002650001303561R00	3561	target Primavera - stereo-1 - standoff near 5 cm - focus stack acquired sol 3728 with MSL CAMERA_PRODUCT_IDs 3541-3548 - best focus image product
		3728MH0002650001303562S00	3562	target Primavera - stereo-1 - standoff near 5 cm - focus stack acquired sol 3728 with MSL CAMERA_PRODUCT_IDs 3541-3548 - range map product

updated: 03_March_2023

Sol 3730 - MAHLI Images

acquired/performed date(s):	2-Feb-23
camera positions:	6
total parent images:	50
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	58

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Alasca and Alegria. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Alasca ~25 cm standoff	3730MH0007060001303563C00	3563	autofocus sub-frame for target Alasca - standoff near 25 cm
		3730MH0007060011303564C00	3564	target Alasca - standoff near 25 cm
		3730MH0007060021303565C00	3565	target Alasca - standoff near 25 cm - alternative auto-exposure
mhli00721	Alasca stereo-1 ~5 cm standoff	3730MH0007210001303566C00	3566	autofocus sub-frame for target Alasca - stereo-1 - standoff near 5 cm
		3730MH0007210011303567C00	3567	target Alasca - stereo-1 - standoff near 5 cm
		3730MH0007210021303568C00	3568	target Alasca - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3730MH0007210031303569C00	3569	target Alasca - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3730MH0007210031303570C00	3570	target Alasca - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3730MH0007210031303571C00	3571	target Alasca - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3730MH0007210031303572C00	3572	target Alasca - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3730MH0007210031303573C00	3573	target Alasca - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3730MH0007210031303574C00	3574	target Alasca - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3730MH0007210031303575C00	3575	target Alasca - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3730MH0007210031303576C00	3576	target Alasca - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00721	Alasca stereo-2 ~5 cm standoff	3730MH0007210001303577C00	3577	autofocus sub-frame for target Alasca - stereo-2 - standoff near 5 cm
		3730MH0007210011303578C00	3578	target Alasca - stereo-2 - standoff near 5 cm
		3730MH0007210021303579C00	3579	target Alasca - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3730MH0007210031303580C00	3580	target Alasca - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3730MH0007210031303581C00	3581	target Alasca - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3730MH0007210031303582C00	3582	target Alasca - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3730MH0007210031303583C00	3583	target Alasca - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3730MH0007210031303584C00	3584	target Alasca - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3730MH0007210031303585C00	3585	target Alasca - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3730MH0007210031303586C00	3586	target Alasca - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3730MH0007210031303587C00	3587	target Alasca - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00814	Alegria ~14 cm standoff	3730MH0008140001303588C00	3588	autofocus sub-frame for target Alegria - standoff near 14 cm
		3730MH0008140011303589C00	3589	target Alegria - standoff near 14 cm
		3730MH0008140021303590C00	3590	target Alegria - standoff near 14 cm - alternative auto-exposure
mhli00723	Alegria stereo-1 ~4 cm standoff	3730MH0007230001303591C00	3591	autofocus sub-frame for target Alegria - stereo-1 - standoff near 4 cm
		3730MH0007230011303592C00	3592	target Alegria - stereo-1 - standoff near 4 cm
		3730MH0007230021303593C00	3593	target Alegria - stereo-1 - standoff near 4 cm - alternative auto-exposure
		3730MH0007230031303594C00	3594	target Alegria - stereo-1 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3730MH0007230031303595C00	3595	target Alegria - stereo-1 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3730MH0007230031303596C00	3596	target Alegria - stereo-1 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3730MH0007230031303597C00	3597	target Alegria - stereo-1 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3730MH0007230031303598C00	3598	target Alegria - stereo-1 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3730MH0007230031303599C00	3599	target Alegria - stereo-1 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3730MH0007230031303600C00	3600	target Alegria - stereo-1 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3730MH0007230031303601C00	3601	target Alegria - stereo-1 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00723	Alegria stereo-2 ~4 cm standoff	3730MH0007230001303602C00	3602	autofocus sub-frame for target Alegria - stereo-2 - standoff near 4 cm
		3730MH0007230011303603C00	3603	target Alegria - stereo-2 - standoff near 4 cm
		3730MH0007230021303604C00	3604	target Alegria - stereo-2 - standoff near 4 cm - alternative auto-exposure
		3730MH0007230031303605C00	3605	target Alegria - stereo-2 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3730MH0007230031303606C00	3606	target Alegria - stereo-2 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3730MH0007230031303607C00	3607	target Alegria - stereo-2 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3730MH0007230031303608C00	3608	target Alegria - stereo-2 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3730MH0007230031303609C00	3609	target Alegria - stereo-2 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3730MH0007230031303610C00	3610	target Alegria - stereo-2 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3730MH0007230031303611C00	3611	target Alegria - stereo-2 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3730MH0007230031303612C00	3612	target Alegria - stereo-2 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00817	Focus Merges	3730MH0008170001303613R00	3613	target Alegria - stereo-2 - standoff near 4 cm - focus stack acquired sol 3730 with MSL CAMERA_PRODUCT_IDs 3605-3612 - best focus image product
		3730MH0008170001303614S00	3614	target Alegria - stereo-2 - standoff near 4 cm - focus stack acquired sol 3730 with MSL CAMERA_PRODUCT_IDs 3605-3612 - range map product
		3730MH0008170001303615R00	3615	target Alegria - stereo-1 - standoff near 4 cm - focus stack acquired sol 3730 with MSL CAMERA_PRODUCT_IDs 3594-3601 - best focus image product
		3730MH0008170001303616S00	3616	target Alegria - stereo-1 - standoff near 4 cm - focus stack acquired sol 3730 with MSL CAMERA_PRODUCT_IDs 3594-3601 - range map product
		3730MH0008170001303617R00	3617	target Alasca - stereo-2 - standoff near 5 cm - focus stack acquired sol 3730 with MSL CAMERA_PRODUCT_IDs 3580-3587 - best focus image product
		3730MH0008170001303618S00	3618	target Alasca - stereo-2 - standoff near 5 cm - focus stack acquired sol 3730 with MSL CAMERA_PRODUCT_IDs 3580-3587 - range map product
		3730MH0008170001303619R00	3619	target Alasca - stereo-1 - standoff near 5 cm - focus stack acquired sol 3730 with MSL CAMERA_PRODUCT_IDs 3569-3576 - best focus image product
		3730MH0008170001303620S00	3620	target Alasca - stereo-1 - standoff near 5 cm - focus stack acquired sol 3730 with MSL CAMERA_PRODUCT_IDs 3569-3576 - range map product

updated: 03_March_2023

Sol 3732 - MAHLI Images

acquired/performed date(s):	4-Feb-23
camera positions:	7
total parent images:	54
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	54

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Pasamoni and Paraiso.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Pasamoni ~25 cm standoff	3732MH0001900001303621C00	3621	autofocus sub-frame for target Pasamoni - standoff near 25 cm
		3732MH0001900011303622C00	3622	target Pasamoni - standoff near 25 cm
mhli00299	Pasamoni stereo-1 ~55 mm standoff	3732MH0002990001303623C00	3623	autofocus sub-frame for target Pasamoni - stereo-1 - standoff near 55 mm
		3732MH0002990011303624C00	3624	target Pasamoni - stereo-1 - standoff near 55 mm
		3732MH0002990021303625C00	3625	target Pasamoni - stereo-1 - standoff near 55 mm - image 1 in 8-image relative focus stack
		3732MH0002990021303626C00	3626	target Pasamoni - stereo-1 - standoff near 55 mm - image 2 in 8-image relative focus stack
		3732MH0002990021303627C00	3627	target Pasamoni - stereo-1 - standoff near 55 mm - image 3 in 8-image relative focus stack
		3732MH0002990021303628C00	3628	target Pasamoni - stereo-1 - standoff near 55 mm - image 4 in 8-image relative focus stack
		3732MH0002990021303629C00	3629	target Pasamoni - stereo-1 - standoff near 55 mm - image 5 in 8-image relative focus stack
		3732MH0002990021303630C00	3630	target Pasamoni - stereo-1 - standoff near 55 mm - image 6 in 8-image relative focus stack
		3732MH0002990021303631C00	3631	target Pasamoni - stereo-1 - standoff near 55 mm - image 7 in 8-image relative focus stack
		3732MH0002990021303632C00	3632	target Pasamoni - stereo-1 - standoff near 55 mm - image 8 in 8-image relative focus stack
mhli00299	Pasamoni stereo-2 ~5 cm standoff	3732MH0002990001303633C00	3633	autofocus sub-frame for target Pasamoni - stereo-2 - standoff near 5 cm
		3732MH0002990011303634C00	3634	target Pasamoni - stereo-2 - standoff near 5 cm
		3732MH0002990021303635C00	3635	target Pasamoni - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3732MH0002990021303636C00	3636	target Pasamoni - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3732MH0002990021303637C00	3637	target Pasamoni - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3732MH0002990021303638C00	3638	target Pasamoni - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3732MH0002990021303639C00	3639	target Pasamoni - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3732MH0002990021303640C00	3640	target Pasamoni - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3732MH0002990021303641C00	3641	target Pasamoni - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3732MH0002990021303642C00	3642	target Pasamoni - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00190	Paraiso after DRT ~25 cm standoff	3732MH0001900001303643C00	3643	autofocus sub-frame for target Paraiso - standoff near 25 cm
		3732MH0001900011303644C00	3644	target Paraiso - standoff near 25 cm
mhli00297	Paraiso stereo-1 ~5 cm standoff	3732MH0002970001303645C00	3645	autofocus sub-frame for target Paraiso - stereo-1 - standoff near 5 cm
		3732MH0002970011303646C00	3646	target Paraiso - stereo-1 - standoff near 5 cm
		3732MH0002970021303647C00	3647	target Paraiso - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3732MH0002970021303648C00	3648	target Paraiso - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3732MH0002970021303649C00	3649	target Paraiso - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3732MH0002970021303650C00	3650	target Paraiso - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3732MH0002970021303651C00	3651	target Paraiso - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3732MH0002970021303652C00	3652	target Paraiso - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3732MH0002970021303653C00	3653	target Paraiso - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3732MH0002970021303654C00	3654	target Paraiso - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00297	Paraiso stereo-2 ~5 cm standoff	3732MH0002970001303655C00	3655	autofocus sub-frame for target Paraiso - stereo-2 - standoff near 5 cm
		3732MH0002970011303656C00	3656	target Paraiso - stereo-2 - standoff near 5 cm
		3732MH0002970021303657C00	3657	target Paraiso - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3732MH0002970021303658C00	3658	target Paraiso - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3732MH0002970021303659C00	3659	target Paraiso - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3732MH0002970021303660C00	3660	target Paraiso - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3732MH0002970021303661C00	3661	target Paraiso - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3732MH0002970021303662C00	3662	target Paraiso - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3732MH0002970021303663C00	3663	target Paraiso - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3732MH0002970021303664C00	3664	target Paraiso - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00796	Paraiso ~1 cm standoff	3732MH0007960001303665C00	3665	autofocus sub-frame for target Paraiso - standoff near 1 cm
		3732MH0007960011303666C00	3666	target Paraiso - standoff near 1 cm
		3732MH0007960021303667C00	3667	target Paraiso - standoff near 1 cm - image 1 in 8-image relative focus stack
		3732MH0007960021303668C00	3668	target Paraiso - standoff near 1 cm - image 2 in 8-image relative focus stack
		3732MH0007960021303669C00	3669	target Paraiso - standoff near 1 cm - image 3 in 8-image relative focus stack
		3732MH0007960021303670C00	3670	target Paraiso - standoff near 1 cm - image 4 in 8-image relative focus stack
		3732MH0007960021303671C00	3671	target Paraiso - standoff near 1 cm - image 5 in 8-image relative focus stack
		3732MH0007960021303672C00	3672	target Paraiso - standoff near 1 cm - image 6 in 8-image relative focus stack
		3732MH0007960021303673C00	3673	target Paraiso - standoff near 1 cm - image 7 in 8-image relative focus stack
		3732MH0007960021303674C00	3674	target Paraiso - standoff near 1 cm - image 8 in 8-image relative focus stack

updated: 10_February_2023

Sol 3733 - MAHLI Images

acquired/performed date(s):	5-Feb-23
camera positions:	0
total parent images:	0
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	10

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3732 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00227	Focus Merges	3733MH0002270001303675R00	3675	target Paraiso - standoff near 1 cm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3667-3674 - best focus image product
		3733MH0002270001303676S00	3676	target Paraiso - standoff near 1 cm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3667-3674 - range map product
		3733MH0002270001303677R00	3677	target Paraiso - stereo-2 - standoff near 5 cm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3657-3664 - best focus image product
		3733MH0002270001303678S00	3678	target Paraiso - stereo-2 - standoff near 5 cm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3657-3664 - range map product
		3733MH0002270001303679R00	3679	target Paraiso - stereo-1 - standoff near 5 cm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3647-3654 - best focus image product
		3733MH0002270001303680S00	3680	target Paraiso - stereo-1 - standoff near 5 cm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3647-3654 - range map product
		3733MH0002270001303681R00	3681	target Pasamoni - stereo-2 - standoff near 5 cm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3635-3642 - best focus image product
		3733MH0002270001303682S00	3682	target Pasamoni - stereo-2 - standoff near 5 cm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3635-3642 - range map product
		3733MH0002270001303683R00	3683	target Pasamoni - stereo-1 - standoff near 55 mm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3625-3632 - best focus image product
		3733MH0002270001303684S00	3684	target Pasamoni - stereo-1 - standoff near 55 mm - focus stack acquired sol 3732 with MSL CAMERA_PRODUCT_IDs 3625-3632 - range map product

updated: 23_October_2023

Sol 3735 - MAHLI Images

acquired/performed date(s):	7-Feb-23
camera positions:	6
total parent images:	44
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	52

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Pico_Espejo and Uatatas. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00172	Pico_Espejo ~20 cm standoff	3735MH0001720001303685C00	3685	autofocus sub-frame for target Pico_Espejo - standoff near 20 cm
		3735MH0001720011303686C00	3686	target Pico_Espejo - standoff near 20 cm
mhli00173	Pico_Espejo stereo-1 ~5 cm standoff	3735MH0001730001303687C00	3687	autofocus sub-frame for target Pico_Espejo - stereo-1 - standoff near 5 cm
		3735MH0001730011303688C00	3688	target Pico_Espejo - stereo-1 - standoff near 5 cm
		3735MH0001730021303689C00	3689	target Pico_Espejo - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3735MH0001730021303690C00	3690	target Pico_Espejo - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3735MH0001730021303691C00	3691	target Pico_Espejo - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3735MH0001730021303692C00	3692	target Pico_Espejo - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3735MH0001730021303693C00	3693	target Pico_Espejo - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3735MH0001730021303694C00	3694	target Pico_Espejo - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3735MH0001730021303695C00	3695	target Pico_Espejo - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3735MH0001730021303696C00	3696	target Pico_Espejo - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Pico_Espejo stereo-2 ~5 cm standoff	3735MH0001730001303697C00	3697	autofocus sub-frame for target Pico_Espejo - stereo-2 - standoff near 5 cm
		3735MH0001730011303698C00	3698	target Pico_Espejo - stereo-2 - standoff near 5 cm
		3735MH0001730021303699C00	3699	target Pico_Espejo - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3735MH0001730021303700C00	3700	target Pico_Espejo - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3735MH0001730021303701C00	3701	target Pico_Espejo - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3735MH0001730021303702C00	3702	target Pico_Espejo - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3735MH0001730021303703C00	3703	target Pico_Espejo - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3735MH0001730021303704C00	3704	target Pico_Espejo - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3735MH0001730021303705C00	3705	target Pico_Espejo - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3735MH0001730021303706C00	3706	target Pico_Espejo - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00190	Uatatas ~24 cm standoff	3735MH0001900001303707C00	3707	autofocus sub-frame for target Uatatas - standoff near 24 cm
		3735MH0001900011303708C00	3708	target Uatatas - standoff near 24 cm
mhli00299	Uatatas stereo-1 ~45 mm standoff	3735MH0002990001303709C00	3709	autofocus sub-frame for target Uatatas - stereo-1 - standoff near 45 mm
		3735MH0002990011303710C00	3710	target Uatatas - stereo-1 - standoff near 45 mm
		3735MH0002990021303711C00	3711	target Uatatas - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3735MH0002990021303712C00	3712	target Uatatas - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3735MH0002990021303713C00	3713	target Uatatas - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3735MH0002990021303714C00	3714	target Uatatas - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3735MH0002990021303715C00	3715	target Uatatas - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3735MH0002990021303716C00	3716	target Uatatas - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3735MH0002990021303717C00	3717	target Uatatas - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3735MH0002990021303718C00	3718	target Uatatas - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00299	Uatatas stereo-2 ~45 mm standoff	3735MH0002990001303719C00	3719	autofocus sub-frame for target Uatatas - stereo-2 - standoff near 45 mm
		3735MH0002990011303720C00	3720	target Uatatas - stereo-2 - standoff near 45 mm
		3735MH0002990021303721C00	3721	target Uatatas - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3735MH0002990021303722C00	3722	target Uatatas - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3735MH0002990021303723C00	3723	target Uatatas - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3735MH0002990021303724C00	3724	target Uatatas - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3735MH0002990021303725C00	3725	target Uatatas - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3735MH0002990021303726C00	3726	target Uatatas - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3735MH0002990021303727C00	3727	target Uatatas - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3735MH0002990021303728C00	3728	target Uatatas - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00153	Focus Merges	3735MH0001530001303729R00	3729	target Uatatas - stereo-2 - standoff near 45 mm - focus stack acquired sol 3735 with MSL CAMERA_PRODUCT_IDs 3721-3728 - best focus image product
		3735MH0001530001303730S00	3730	target Uatatas - stereo-2 - standoff near 45 mm - focus stack acquired sol 3735 with MSL CAMERA_PRODUCT_IDs 3721-3728 - range map product
		3735MH0001530001303731R00	3731	target Uatatas - stereo-1 - standoff near 45 mm - focus stack acquired sol 3735 with MSL CAMERA_PRODUCT_IDs 3711-3718 - best focus image product
		3735MH0001530001303732S00	3732	target Uatatas - stereo-1 - standoff near 45 mm - focus stack acquired sol 3735 with MSL CAMERA_PRODUCT_IDs 3711-3718 - range map product
		3735MH0001530001303733R00	3733	target Pico_Espejo - stereo-2 - standoff near 5 cm - focus stack acquired sol 3735 with MSL CAMERA_PRODUCT_IDs 3699-3706 - best focus image product
		3735MH0001530001303734S00	3734	target Pico_Espejo - stereo-2 - standoff near 5 cm - focus stack acquired sol 3735 with MSL CAMERA_PRODUCT_IDs 3699-3706 - range map product
		3735MH0001530001303735R00	3735	target Pico_Espejo - stereo-1 - standoff near 5 cm - focus stack acquired sol 3735 with MSL CAMERA_PRODUCT_IDs 3689-3696 - best focus image product
		3735MH0001530001303736S00	3736	target Pico_Espejo - stereo-1 - standoff near 5 cm - focus stack acquired sol 3735 with MSL CAMERA_PRODUCT_IDs 3689-3696 - range map product

updated: 23_October_2023

Sol 3737 - MAHLI Images

acquired/performed date(s):	~~8 Feb 23~~/10 Feb 23
camera positions:	8
total parent images:	53
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	61

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the intended drill target Dinira before and after DRT and after a drill bit preload test. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Dinira before DRT ~25 cm standoff	3737MH0001900001303737C00	3737	autofocus sub-frame for intended Dinira drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3737MH0001900011303738C00	3738	intended Dinira drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
mhli00122	Dinira before DRT APXS spot 2 ~45 mm standoff	3737MH0001220001303739C00	3739	autofocus sub-frame for intended Dinira drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 45 mm
		3737MH0001220011303740C00	3740	intended Dinira drill site - before dust removal tool (DRT) - APXS spot 2 - standoff near 45 mm
mhli00706	Dinira after DRT ~24 cm standoff	3737MH0007060001303741C00	3741	autofocus sub-frame for intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 24 cm
		3737MH0007060011303742C00	3742	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 24 cm
		3737MH0007060021303743C00	3743	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 24 cm - alternative auto-exposure
mhli00763	Dinira after DRT APXS spot 2 stereo-1 ~5 cm standoff	3737MH0007630001303744C00	3744	autofocus sub-frame for intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3737MH0007630011303745C00	3745	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3737MH0007630021303746C00	3746	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3737MH0007630031303747C00	3747	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3737MH0007630031303748C00	3748	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3737MH0007630031303749C00	3749	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3737MH0007630031303750C00	3750	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3737MH0007630031303751C00	3751	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3737MH0007630031303752C00	3752	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3737MH0007630031303753C00	3753	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3737MH0007630031303754C00	3754	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Dinira after DRT APXS spot 2 stereo-2 ~5 cm standoff	3737MH0007630001303755C00	3755	autofocus sub-frame for intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3737MH0007630011303756C00	3756	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3737MH0007630021303757C00	3757	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3737MH0007630031303758C00	3758	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3737MH0007630031303759C00	3759	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3737MH0007630031303760C00	3760	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3737MH0007630031303761C00	3761	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3737MH0007630031303762C00	3762	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3737MH0007630031303763C00	3763	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3737MH0007630031303764C00	3764	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3737MH0007630031303765C00	3765	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00824	Dinira after DRT APXS spot 2 ~2 cm standoff	3737MH0008240001303766C00	3766	autofocus sub-frame for intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm
		3737MH0008240011303767C00	3767	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm
		3737MH0008240021303768C00	3768	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - alternative auto-exposure
		3737MH0008240031303769C00	3769	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 1 in 8-image relative focus stack
		3737MH0008240031303770C00	3770	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 2 in 8-image relative focus stack
		3737MH0008240031303771C00	3771	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 3 in 8-image relative focus stack
		3737MH0008240031303772C00	3772	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 4 in 8-image relative focus stack
		3737MH0008240031303773C00	3773	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 5 in 8-image relative focus stack
		3737MH0008240031303774C00	3774	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 6 in 8-image relative focus stack
		3737MH0008240031303775C00	3775	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 7 in 8-image relative focus stack
		3737MH0008240031303776C00	3776	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00763	Dinira after DRT APXS spot 1 ~5 cm standoff	3737MH0007630001303777C00	3777	autofocus sub-frame for intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3737MH0007630011303778C00	3778	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3737MH0007630021303779C00	3779	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - alternative auto-exposure
		3737MH0007630031303780C00	3780	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3737MH0007630031303781C00	3781	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3737MH0007630031303782C00	3782	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3737MH0007630031303783C00	3783	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3737MH0007630031303784C00	3784	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3737MH0007630031303785C00	3785	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3737MH0007630031303786C00	3786	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3737MH0007630031303787C00	3787	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00465	Dinira after DRT after drill bit preload test ~35 cm standoff	3737MH0004650001303788C00	3788	autofocus sub-frame for intended Dinira drill site - drill bit preload test - image acquired after preload - after sol 3737 dust removal tool (DRT) - standoff near 35 cm
		3737MH0004650011303789C00	3789	intended Dinira drill site - drill bit preload test - image acquired after preload - after sol 3737 dust removal tool (DRT) - standoff near 35 cm
mhli00153	Focus Merges	3737MH0001530001303790R00	3790	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3737 with MSL CAMERA_PRODUCT_IDs 3780-3787 - best focus image product
		3737MH0001530001303791S00	3791	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3737 with MSL CAMERA_PRODUCT_IDs 3780-3787 - range map product
		3737MH0001530001303792R00	3792	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3737 with MSL CAMERA_PRODUCT_IDs 3769-3776 - best focus image product
		3737MH0001530001303793S00	3793	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 2 cm - focus stack acquired sol 3737 with MSL CAMERA_PRODUCT_IDs 3769-3776 - range map product
		3737MH0001530001303794R00	3794	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3737 with MSL CAMERA_PRODUCT_IDs 3758-3765 - best focus image product
		3737MH0001530001303795S00	3795	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3737 with MSL CAMERA_PRODUCT_IDs 3758-3765 - range map product
		3737MH0001530001303796R00	3796	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3737 with MSL CAMERA_PRODUCT_IDs 3747-3754 - best focus image product
		3737MH0001530001303797S00	3797	intended Dinira drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3737 with MSL CAMERA_PRODUCT_IDs 3747-3754 - range map product

updated: 08_March_2023

Sol 3739 - MAHLI Images

acquired/performed date(s):	11-Feb-23/12-Feb-23
camera positions:	9
total parent images:	76
focus merges performed:	7
total focus merge products:	14
total parent images + focus merge products:	90

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Yakarinta as well as the targets Itu and Uraricaa. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Yakarinta after DRT ~24 cm standoff	3739MH0001900001303798C00	3798	autofocus sub-frame for target Yakarinta - after dust removal tool (DRT) - standoff near 24 cm
		3739MH0001900011303799C00	3799	target Yakarinta - after dust removal tool (DRT) - standoff near 24 cm
mhli00173	Yakarinta after DRT stereo-1 ~5 cm standoff	3739MH0001730001303800C00	3800	autofocus sub-frame for target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3739MH0001730011303801C00	3801	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3739MH0001730021303802C00	3802	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3739MH0001730021303803C00	3803	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3739MH0001730021303804C00	3804	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3739MH0001730021303805C00	3805	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3739MH0001730021303806C00	3806	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3739MH0001730021303807C00	3807	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3739MH0001730021303808C00	3808	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3739MH0001730021303809C00	3809	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Yakarinta after DRT stereo-2 ~5 cm standoff	3739MH0001730001303810C00	3810	autofocus sub-frame for target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3739MH0001730011303811C00	3811	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3739MH0001730021303812C00	3812	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3739MH0001730021303813C00	3813	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3739MH0001730021303814C00	3814	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3739MH0001730021303815C00	3815	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3739MH0001730021303816C00	3816	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3739MH0001730021303817C00	3817	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3739MH0001730021303818C00	3818	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3739MH0001730021303819C00	3819	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00386	Yakarinta after DRT ~15 mm standoff	3739MH0003860001303820C00	3820	autofocus sub-frame for target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm
		3739MH0003860011303821C00	3821	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm
		3739MH0003860021303822C00	3822	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - image 1 in 8-image relative focus stack
		3739MH0003860021303823C00	3823	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - image 2 in 8-image relative focus stack
		3739MH0003860021303824C00	3824	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - image 3 in 8-image relative focus stack
		3739MH0003860021303825C00	3825	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - image 4 in 8-image relative focus stack
		3739MH0003860021303826C00	3826	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - image 5 in 8-image relative focus stack
		3739MH0003860021303827C00	3827	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - image 6 in 8-image relative focus stack
		3739MH0003860021303828C00	3828	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - image 7 in 8-image relative focus stack
		3739MH0003860021303829C00	3829	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - image 8 in 8-image relative focus stack
mhli00190	Itu ~25 cm standoff	3739MH0001900001303830C00	3830	autofocus sub-frame for target Itu - standoff near 25 cm
		3739MH0001900011303831C00	3831	target Itu - standoff near 25 cm
mhli00173	Itu stereo-1 ~5 cm standoff	3739MH0001730001303832C00	3832	autofocus sub-frame for target Itu - stereo-1 - standoff near 5 cm
		3739MH0001730011303833C00	3833	target Itu - stereo-1 - standoff near 5 cm
		3739MH0001730021303834C00	3834	target Itu - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3739MH0001730021303835C00	3835	target Itu - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3739MH0001730021303836C00	3836	target Itu - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3739MH0001730021303837C00	3837	target Itu - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3739MH0001730021303838C00	3838	target Itu - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3739MH0001730021303839C00	3839	target Itu - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3739MH0001730021303840C00	3840	target Itu - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3739MH0001730021303841C00	3841	target Itu - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Itu stereo-2 ~5 cm standoff	3739MH0001730001303842C00	3842	autofocus sub-frame for target Itu - stereo-2 - standoff near 5 cm
		3739MH0001730011303843C00	3843	target Itu - stereo-2 - standoff near 5 cm
		3739MH0001730021303844C00	3844	target Itu - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3739MH0001730021303845C00	3845	target Itu - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3739MH0001730021303846C00	3846	target Itu - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3739MH0001730021303847C00	3847	target Itu - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3739MH0001730021303848C00	3848	target Itu - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3739MH0001730021303849C00	3849	target Itu - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3739MH0001730021303850C00	3850	target Itu - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3739MH0001730021303851C00	3851	target Itu - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00781	Uraricaa ~24 cm standoff	3739MH0007810001303852C00	3852	autofocus sub-frame for target Uraricaa - standoff near 24 cm
		3739MH0007810011303853C00	3853	target Uraricaa - standoff near 24 cm
		3739MH0007810021303854C00	3854	target Uraricaa - standoff near 24 cm - alternative auto-exposure
		3739MH0007810031303855C00	3855	target Uraricaa - standoff near 24 cm - image 1 in 8-image relative focus stack
		3739MH0007810031303856C00	3856	target Uraricaa - standoff near 24 cm - image 2 in 8-image relative focus stack
		3739MH0007810031303857C00	3857	target Uraricaa - standoff near 24 cm - image 3 in 8-image relative focus stack
		3739MH0007810031303858C00	3858	target Uraricaa - standoff near 24 cm - image 4 in 8-image relative focus stack
		3739MH0007810031303859C00	3859	target Uraricaa - standoff near 24 cm - image 5 in 8-image relative focus stack
		3739MH0007810031303860C00	3860	target Uraricaa - standoff near 24 cm - image 6 in 8-image relative focus stack
		3739MH0007810031303861C00	3861	target Uraricaa - standoff near 24 cm - image 7 in 8-image relative focus stack
		3739MH0007810031303862C00	3862	target Uraricaa - standoff near 24 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00782	Uraricaa ~14 cm standoff	3739MH0007820001303863C00	3863	autofocus sub-frame for target Uraricaa - standoff near 14 cm
		3739MH0007820011303864C00	3864	target Uraricaa - standoff near 14 cm
		3739MH0007820021303865C00	3865	target Uraricaa - standoff near 14 cm - alternative auto-exposure
		3739MH0007820031303866C00	3866	target Uraricaa - standoff near 14 cm - image 1 in 8-image relative focus stack
		3739MH0007820031303867C00	3867	target Uraricaa - standoff near 14 cm - image 2 in 8-image relative focus stack
		3739MH0007820031303868C00	3868	target Uraricaa - standoff near 14 cm - image 3 in 8-image relative focus stack
		3739MH0007820031303869C00	3869	target Uraricaa - standoff near 14 cm - image 4 in 8-image relative focus stack
		3739MH0007820031303870C00	3870	target Uraricaa - standoff near 14 cm - image 5 in 8-image relative focus stack
		3739MH0007820031303871C00	3871	target Uraricaa - standoff near 14 cm - image 6 in 8-image relative focus stack
		3739MH0007820031303872C00	3872	target Uraricaa - standoff near 14 cm - image 7 in 8-image relative focus stack
		3739MH0007820031303873C00	3873	target Uraricaa - standoff near 14 cm - image 8 in 8-image relative focus stack
mhli00171	Focus Merges	3739MH0001710001303874R00	3874	target Uraricaa - standoff near 14 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3866-3873 - best focus image product
		3739MH0001710001303875S00	3875	target Uraricaa - standoff near 14 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3866-3873 - range map product
		3739MH0001710001303876R00	3876	target Uraricaa - standoff near 24 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3855-3862 - best focus image product
		3739MH0001710001303877S00	3877	target Uraricaa - standoff near 24 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3855-3862 - range map product
		3739MH0001710001303878R00	3878	target Itu - stereo-2 - standoff near 5 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3844-3851 - best focus image product
		3739MH0001710001303879S00	3879	target Itu - stereo-2 - standoff near 5 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3844-3851 - range map product
		3739MH0001710001303880R00	3880	target Itu - stereo-1 - standoff near 5 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3834-3841 - best focus image product
		3739MH0001710001303881S00	3881	target Itu - stereo-1 - standoff near 5 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3834-3841 - range map product
		3739MH0001710001303882R00	3882	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3822-3829 - best focus image product
		3739MH0001710001303883S00	3883	target Yakarinta - after dust removal tool (DRT) - standoff near 15 mm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3822-3829 - range map product
		3739MH0001710001303884R00	3884	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3812-3819 - best focus image product
		3739MH0001710001303885S00	3885	target Yakarinta - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3812-3819 - range map product
		3739MH0001710001303886R00	3886	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3802-3809 - best focus image product
		3739MH0001710001303887S00	3887	target Yakarinta - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3739 with MSL CAMERA_PRODUCT_IDs 3802-3809 - range map product

updated: 06_March_2023

Sol 3742 - MAHLI Images

acquired/performed date(s):	14-Feb-23
camera positions:	2
total parent images:	4
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	4

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Drill preparation activities at the planned Dinira sample extraction site. MAHLI imaged the intended site for the Dinira sample discard pile.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Intended Dinira Drill Sample Discard Site Before Discard ~24 cm standoff	3742MH0001900001303888C00	3888	autofocus sub-frame for intended Dinira drill sample discard site - before drill attempt and before discard - standoff near 24 cm
		3742MH0001900011303889C00	3889	intended Dinira drill sample discard site - before drill attempt and before discard - standoff near 24 cm
mhli00122	Intended Dinira Drill Sample Discard Site Before Discard ~45 mm standoff	3742MH0001220001303890C00	3890	autofocus sub-frame for intended Dinira drill sample discard site - before drill attempt and before discard - standoff near 45 mm
		3742MH0001220011303891C00	3891	intended Dinira drill sample discard site - before drill attempt and before discard - standoff near 45 mm

updated: 10_March_2023

Sol 3744 - MAHLI Images

acquired/performed date(s):	~~31-Feb-23~~/17-Feb-23
camera positions:	5
total parent images:	34
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	40

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the attempted (Sol 3742) Dinira drill hole and the Dinira drill cuttings. The focus stack images were merged as well.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Dinira drill hole attempt drilled on Sol 3742 ~24 cm standoff	3744MH0001900001303892C00	3892	autofocus sub-frame for attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 24 cm
		3744MH0001900011303893C00	3893	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 24 cm
mhli00774	Dinira drill hole attempt drilled on Sol 3742 ~95 mm standoff	3744MH0007740001303894C00	3894	autofocus sub-frame for attempted drill hole in rock named Dinira - drilled sol 3742 - sub-frame positioned to focus on surface outside hole - standoff near 95 mm
		3744MH0007740011303895C00	3895	attempted drill hole in rock named Dinira - drilled sol 3742 - focus based on preceding autofocus sub-frame - standoff near 95 mm
mhli00297	Dinira drill hole attempt drilled on Sol 3742 ~45 mm standoff	3744MH0002970001303896C00	3896	autofocus sub-frame for attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm
		3744MH0002970011303897C00	3897	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm
		3744MH0002970021303898C00	3898	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3744MH0002970021303899C00	3899	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3744MH0002970021303900C00	3900	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3744MH0002970021303901C00	3901	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3744MH0002970021303902C00	3902	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3744MH0002970021303903C00	3903	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3744MH0002970021303904C00	3904	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3744MH0002970021303905C00	3905	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00173	Dinira drill cuttings after sol 3742 drill attempt stereo-1 ~5 cm standoff	3744MH0001730001303906C00	3906	autofocus sub-frame for Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm
		3744MH0001730011303907C00	3907	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm
		3744MH0001730021303908C00	3908	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3744MH0001730021303909C00	3909	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3744MH0001730021303910C00	3910	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3744MH0001730021303911C00	3911	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3744MH0001730021303912C00	3912	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3744MH0001730021303913C00	3913	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3744MH0001730021303914C00	3914	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3744MH0001730021303915C00	3915	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Dinira drill cuttings after sol 3742 drill attempt stereo-2 ~5 cm standoff	3744MH0001730001303916C00	3916	autofocus sub-frame for Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm
		3744MH0001730011303917C00	3917	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm
		3744MH0001730021303918C00	3918	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3744MH0001730021303919C00	3919	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3744MH0001730021303920C00	3920	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3744MH0001730021303921C00	3921	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3744MH0001730021303922C00	3922	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3744MH0001730021303923C00	3923	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3744MH0001730021303924C00	3924	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3744MH0001730021303925C00	3925	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3744MH0001930001303926R00	3926	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - focus stack acquired sol 3744 with MSL CAMERA_PRODUCT_IDs 3918-3925 - best focus image product
		3744MH0001930001303927S00	3927	Dinira drill cuttings - after sol 3742 drill attempt - stereo-2 - standoff near 5 cm - focus stack acquired sol 3744 with MSL CAMERA_PRODUCT_IDs 3918-3925 - range map product
		3744MH0001930001303928R00	3928	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - focus stack acquired sol 3744 with MSL CAMERA_PRODUCT_IDs 3908-3915 - best focus image product
		3744MH0001930001303929S00	3929	Dinira drill cuttings - after sol 3742 drill attempt - stereo-1 - standoff near 5 cm - focus stack acquired sol 3744 with MSL CAMERA_PRODUCT_IDs 3908-3915 - range map product
		3744MH0001930001303930R00	3930	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - focus stack acquired sol 3744 with MSL CAMERA_PRODUCT_IDs 3898-3905 - best focus image product
		3744MH0001930001303931S00	3931	attempted drill hole in rock named Dinira - drilled sol 3742 - standoff near 45 mm - focus stack acquired sol 3744 with MSL CAMERA_PRODUCT_IDs 3898-3905 - range map product

updated: 10_March_2023

Sol 3746 - MAHLI Images

acquired/performed date(s):	19-Feb-23
camera positions:	8
total parent images:	72
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	72

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Cunucunuma and Tres_Bocas.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Cunucunuma ~24 cm standoff	3746MH0007060001303932C00	3932	autofocus sub-frame for target Cunucunuma - standoff near 24 cm
		3746MH0007060011303933C00	3933	target Cunucunuma - standoff near 24 cm
		3746MH0007060021303934C00	3934	target Cunucunuma - standoff near 24 cm - alternative auto-exposure
mhli00740	Cunucunuma stereo-1 ~5 cm standoff	3746MH0007400001303935C00	3935	autofocus sub-frame for target Cunucunuma - stereo-1 - standoff near 5 cm
		3746MH0007400011303936C00	3936	target Cunucunuma - stereo-1 - standoff near 5 cm
		3746MH0007400021303937C00	3937	target Cunucunuma - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3746MH0007400031303938C00	3938	target Cunucunuma - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3746MH0007400031303939C00	3939	target Cunucunuma - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3746MH0007400031303940C00	3940	target Cunucunuma - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3746MH0007400031303941C00	3941	target Cunucunuma - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3746MH0007400031303942C00	3942	target Cunucunuma - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3746MH0007400031303943C00	3943	target Cunucunuma - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3746MH0007400031303944C00	3944	target Cunucunuma - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3746MH0007400031303945C00	3945	target Cunucunuma - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00740	Cunucunuma stereo-2 ~45 mm standoff	3746MH0007400001303946C00	3946	autofocus sub-frame for target Cunucunuma - stereo-2 - standoff near 45 mm
		3746MH0007400011303947C00	3947	target Cunucunuma - stereo-2 - standoff near 45 mm
		3746MH0007400021303948C00	3948	target Cunucunuma - stereo-2 - standoff near 45 mm - alternative auto-exposure
		3746MH0007400031303949C00	3949	target Cunucunuma - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3746MH0007400031303950C00	3950	target Cunucunuma - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3746MH0007400031303951C00	3951	target Cunucunuma - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3746MH0007400031303952C00	3952	target Cunucunuma - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3746MH0007400031303953C00	3953	target Cunucunuma - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3746MH0007400031303954C00	3954	target Cunucunuma - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3746MH0007400031303955C00	3955	target Cunucunuma - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3746MH0007400031303956C00	3956	target Cunucunuma - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00706	Tres_Bocas ~24 cm standoff	3746MH0007060001303957C00	3957	autofocus sub-frame for target Tres_Bocas - APXS spot 2 - standoff near 24 cm
		3746MH0007060011303958C00	3958	target Tres_Bocas - APXS spot 2 - standoff near 24 cm
		3746MH0007060021303959C00	3959	target Tres_Bocas - APXS spot 2 - standoff near 24 cm - alternative auto-exposure
mhli00699	Tres_Bocas APXS spot 2 ~4 cm standoff	3746MH0006990001303960C00	3960	autofocus sub-frame for target Tres_Bocas - APXS spot 2 - standoff near 4 cm
		3746MH0006990011303961C00	3961	target Tres_Bocas - APXS spot 2 - standoff near 4 cm
		3746MH0006990021303962C00	3962	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - alternative auto-exposure
		3746MH0006990031303963C00	3963	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3746MH0006990031303964C00	3964	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3746MH0006990031303965C00	3965	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3746MH0006990031303966C00	3966	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3746MH0006990031303967C00	3967	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3746MH0006990031303968C00	3968	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3746MH0006990031303969C00	3969	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3746MH0006990031303970C00	3970	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00699	Tres_Bocas APXS spot 1 ~4 cm standoff	3746MH0006990001303971C00	3971	autofocus sub-frame for target Tres_Bocas - APXS spot 1 - standoff near 4 cm
		3746MH0006990011303972C00	3972	target Tres_Bocas - APXS spot 1 - standoff near 4 cm
		3746MH0006990021303973C00	3973	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - alternative auto-exposure
		3746MH0006990031303974C00	3974	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3746MH0006990031303975C00	3975	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3746MH0006990031303976C00	3976	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3746MH0006990031303977C00	3977	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3746MH0006990031303978C00	3978	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3746MH0006990031303979C00	3979	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3746MH0006990031303980C00	3980	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3746MH0006990031303981C00	3981	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00699	Tres_Bocas APXS spot 3 ~4 cm standoff	3746MH0006990001303982C00	3982	autofocus sub-frame for target Tres_Bocas - APXS spot 3 - standoff near 4 cm
		3746MH0006990011303983C00	3983	target Tres_Bocas - APXS spot 3 - standoff near 4 cm
		3746MH0006990021303984C00	3984	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - alternative auto-exposure
		3746MH0006990031303985C00	3985	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3746MH0006990031303986C00	3986	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3746MH0006990031303987C00	3987	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3746MH0006990031303988C00	3988	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3746MH0006990031303989C00	3989	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3746MH0006990031303990C00	3990	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3746MH0006990031303991C00	3991	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3746MH0006990031303992C00	3992	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00699	Tres_Bocas APXS spot 4 ~4 cm standoff	3746MH0006990001303993C00	3993	autofocus sub-frame for target Tres_Bocas - APXS spot 4 - standoff near 4 cm
		3746MH0006990011303994C00	3994	target Tres_Bocas - APXS spot 4 - standoff near 4 cm
		3746MH0006990021303995C00	3995	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - alternative auto-exposure
		3746MH0006990031303996C00	3996	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3746MH0006990031303997C00	3997	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3746MH0006990031303998C00	3998	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3746MH0006990031303999C00	3999	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3746MH0006990031304000C00	4000	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3746MH0006990031304001C00	4001	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3746MH0006990031304002C00	4002	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3746MH0006990031304003C00	4003	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - image 8 in 8-image relative focus stack

updated: 23_October_2023

Sol 3748 - MAHLI Images

acquired/performed date(s):	21-Feb-23
camera positions:	0
total parent images:	0
focus merges performed:	6
total focus merge products:	12
total parent images + focus merge products:	12

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3746 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00163	Focus Merges	3748MH0001630001304004R00	4004	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3996-4003 - best focus image product
		3748MH0001630001304005S00	4005	target Tres_Bocas - APXS spot 4 - standoff near 4 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3996-4003 - range map product
		3748MH0001630001304006R00	4006	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3985-3992 - best focus image product
		3748MH0001630001304007S00	4007	target Tres_Bocas - APXS spot 3 - standoff near 4 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3985-3992 - range map product
		3748MH0001630001304008R00	4008	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3974-3981 - best focus image product
		3748MH0001630001304009S00	4009	target Tres_Bocas - APXS spot 1 - standoff near 4 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3974-3981 - range map product
		3748MH0001630001304010R00	4010	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3963-3970 - best focus image product
		3748MH0001630001304011S00	4011	target Tres_Bocas - APXS spot 2 - standoff near 4 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3963-3970 - range map product
		3748MH0001630001304012R00	4012	target Cunucunuma - stereo-2 - standoff near 45 mm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3949-3956 - best focus image product
		3748MH0001630001304013S00	4013	target Cunucunuma - stereo-2 - standoff near 45 mm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3949-3956 - range map product
		3748MH0001630001304014R00	4014	target Cunucunuma - stereo-1 - standoff near 5 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3938-3945 - best focus image product
		3748MH0001630001304015S00	4015	target Cunucunuma - stereo-1 - standoff near 5 cm - focus stack acquired sol 3746 with MSL CAMERA_PRODUCT_IDs 3938-3945 - range map product

updated: 23_October_2023

Sol 3749 - MAHLI Images

acquired/performed date(s):	22-Feb-23
camera positions:	7
total parent images:	69
focus merges performed:	6
total focus merge products:	12
total parent images + focus merge products:	81

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Santana and Soledad. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Santana after DRT ~25 cm standoff	3749MH0007060001304016C00	4016	autofocus sub-frame for target Santana - standoff near 25 cm
		3749MH0007060011304017C00	4017	target Santana - standoff near 25 cm
		3749MH0007060021304018C00	4018	target Santana - standoff near 25 cm - alternative auto-exposure
mhli00723	Santana stereo-1 ~5 cm standoff	3749MH0007230001304019C00	4019	autofocus sub-frame for target Santana - stereo-1 - standoff near 5 cm
		3749MH0007230011304020C00	4020	target Santana - stereo-1 - standoff near 5 cm
		3749MH0007230021304021C00	4021	target Santana - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3749MH0007230031304022C00	4022	target Santana - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3749MH0007230031304023C00	4023	target Santana - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3749MH0007230031304024C00	4024	target Santana - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3749MH0007230031304025C00	4025	target Santana - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3749MH0007230031304026C00	4026	target Santana - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3749MH0007230031304027C00	4027	target Santana - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3749MH0007230031304028C00	4028	target Santana - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3749MH0007230031304029C00	4029	target Santana - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00723	Santana stereo-2 ~5 cm standoff	3749MH0007230001304030C00	4030	autofocus sub-frame for target Santana - stereo-2 - standoff near 5 cm
		3749MH0007230011304031C00	4031	target Santana - stereo-2 - standoff near 5 cm
		3749MH0007230021304032C00	4032	target Santana - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3749MH0007230031304033C00	4033	target Santana - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3749MH0007230031304034C00	4034	target Santana - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3749MH0007230031304035C00	4035	target Santana - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3749MH0007230031304036C00	4036	target Santana - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3749MH0007230031304037C00	4037	target Santana - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3749MH0007230031304038C00	4038	target Santana - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3749MH0007230031304039C00	4039	target Santana - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3749MH0007230031304040C00	4040	target Santana - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00860	Santana ~3 cm standoff	3749MH0008600001304041C00	4041	autofocus sub-frame for target Santana - standoff near 3 cm
		3749MH0008600011304042C00	4042	target Santana - standoff near 3 cm
		3749MH0008600021304043C00	4043	target Santana - standoff near 3 cm - alternative auto-exposure
		3749MH0008600031304044C00	4044	target Santana - standoff near 3 cm - image 1 in 8-image relative focus stack
		3749MH0008600031304045C00	4045	target Santana - standoff near 3 cm - image 2 in 8-image relative focus stack
		3749MH0008600031304046C00	4046	target Santana - standoff near 3 cm - image 3 in 8-image relative focus stack
		3749MH0008600031304047C00	4047	target Santana - standoff near 3 cm - image 4 in 8-image relative focus stack
		3749MH0008600031304048C00	4048	target Santana - standoff near 3 cm - image 5 in 8-image relative focus stack
		3749MH0008600031304049C00	4049	target Santana - standoff near 3 cm - image 6 in 8-image relative focus stack
		3749MH0008600031304050C00	4050	target Santana - standoff near 3 cm - image 7 in 8-image relative focus stack
		3749MH0008600031304051C00	4051	target Santana - standoff near 3 cm - image 8 in 8-image relative focus stack
mhli00678	Soledad ~25 cm standoff	3749MH0006780001304052C00	4052	autofocus sub-frame for target Soledad - standoff near 25 cm
		3749MH0006780011304053C00	4053	target Soledad - standoff near 25 cm
		3749MH0006780021304054C00	4054	target Soledad - standoff near 25 cm - alternative auto-exposure
		3749MH0006780031304055C00	4055	target Soledad - standoff near 25 cm - image 1 in 8-image relative focus stack
		3749MH0006780031304056C00	4056	target Soledad - standoff near 25 cm - image 2 in 8-image relative focus stack
		3749MH0006780031304057C00	4057	target Soledad - standoff near 25 cm - image 3 in 8-image relative focus stack
		3749MH0006780031304058C00	4058	target Soledad - standoff near 25 cm - image 4 in 8-image relative focus stack
		3749MH0006780031304059C00	4059	target Soledad - standoff near 25 cm - image 5 in 8-image relative focus stack
		3749MH0006780031304060C00	4060	target Soledad - standoff near 25 cm - image 6 in 8-image relative focus stack
		3749MH0006780031304061C00	4061	target Soledad - standoff near 25 cm - image 7 in 8-image relative focus stack
		3749MH0006780031304062C00	4062	target Soledad - standoff near 25 cm - image 8 in 8-image relative focus stack
mhli00709	Soledad stereo-1 ~55 mm standoff	3749MH0007090001304063C00	4063	autofocus sub-frame for target Soledad - stereo-1 - standoff near 55 mm
		3749MH0007090011304064C00	4064	target Soledad - stereo-1 - standoff near 55 mm
		3749MH0007090021304065C00	4065	target Soledad - stereo-1 - standoff near 55 mm - alternative auto-exposure
		3749MH0007090031304066C00	4066	target Soledad - stereo-1 - standoff near 55 mm - image 1 in 8-image relative focus stack
		3749MH0007090031304067C00	4067	target Soledad - stereo-1 - standoff near 55 mm - image 2 in 8-image relative focus stack
		3749MH0007090031304068C00	4068	target Soledad - stereo-1 - standoff near 55 mm - image 3 in 8-image relative focus stack
		3749MH0007090031304069C00	4069	target Soledad - stereo-1 - standoff near 55 mm - image 4 in 8-image relative focus stack
		3749MH0007090031304070C00	4070	target Soledad - stereo-1 - standoff near 55 mm - image 5 in 8-image relative focus stack
		3749MH0007090031304071C00	4071	target Soledad - stereo-1 - standoff near 55 mm - image 6 in 8-image relative focus stack
		3749MH0007090031304072C00	4072	target Soledad - stereo-1 - standoff near 55 mm - image 7 in 8-image relative focus stack
		3749MH0007090031304073C00	4073	target Soledad - stereo-1 - standoff near 55 mm - image 8 in 8-image relative focus stack
mhli00709	Soledad stereo-2 ~6 cm standoff	3749MH0007090001304074C00	4074	autofocus sub-frame for target Soledad - stereo-2 - standoff near 6 cm
		3749MH0007090011304075C00	4075	target Soledad - stereo-2 - standoff near 6 cm
		3749MH0007090021304076C00	4076	target Soledad - stereo-2 - standoff near 6 cm - alternative auto-exposure
		3749MH0007090031304077C00	4077	target Soledad - stereo-2 - standoff near 6 cm - image 1 in 8-image relative focus stack
		3749MH0007090031304078C00	4078	target Soledad - stereo-2 - standoff near 6 cm - image 2 in 8-image relative focus stack
		3749MH0007090031304079C00	4079	target Soledad - stereo-2 - standoff near 6 cm - image 3 in 8-image relative focus stack
		3749MH0007090031304080C00	4080	target Soledad - stereo-2 - standoff near 6 cm - image 4 in 8-image relative focus stack
		3749MH0007090031304081C00	4081	target Soledad - stereo-2 - standoff near 6 cm - image 5 in 8-image relative focus stack
		3749MH0007090031304082C00	4082	target Soledad - stereo-2 - standoff near 6 cm - image 6 in 8-image relative focus stack
		3749MH0007090031304083C00	4083	target Soledad - stereo-2 - standoff near 6 cm - image 7 in 8-image relative focus stack
		3749MH0007090031304084C00	4084	target Soledad - stereo-2 - standoff near 6 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00702	Focus Merges	3749MH0007020001304085R00	4085	target Soledad - stereo-2 - standoff near 6 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4077-4084 - best focus image product
		3749MH0007020001304086500	4086	target Soledad - stereo-2 - standoff near 6 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4077-4084 - range map product
		3749MH0007020001304087R00	4087	target Soledad - stereo-1 - standoff near 55 mm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4066-4073 - best focus image product
		3749MH0007020001304088500	4088	target Soledad - stereo-1 - standoff near 55 mm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4066-4073 - range map product
		3749MH0007020001304089R00	4089	target Soledad - standoff near 25 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4055-4062 - best focus image product
		3749MH0007020001304090500	4090	target Soledad - standoff near 25 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4055-4062 - range map product
		3749MH0007020001304091R00	4091	target Santana - standoff near 3 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4044-4051 - best focus image product
		3749MH0007020001304092500	4092	target Santana - standoff near 3 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4044-4051 - range map product
		3749MH0007020001304093R00	4093	target Santana - stereo-2 - standoff near 5 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4033-4040 - best focus image product
		3749MH0007020001304094500	4094	target Santana - stereo-2 - standoff near 5 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4033-4040 - range map product
		3749MH0007020001304095R00	4095	target Santana - stereo-1 - standoff near 5 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4022-4029 - best focus image product
		3749MH0007020001304096500	4096	target Santana - stereo-1 - standoff near 5 cm - focus stack acquired sol 3749 with MSL CAMERA_PRODUCT_IDs 4022-4029 - range map product

updated: 23_October_2023

Sol 3750 - MAHLI Images

acquired/performed date(s):	23-Feb-23
camera positions:	6
total parent images:	49
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	57

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the intended drill target Tapo_Caparo after DRT and after a drill bit preload test. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Tapo_Caparo after DRT ~25 cm standoff	3750MH0007060001304097C00	4097	autofocus sub-frame for intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3750MH0007060011304098C00	4098	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3750MH0007060021304099C00	4099	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm - alternative auto-exposure
mhli00834	Tapo_Caparo after DRT APXS spot 2 stereo-1 ~5 cm standoff	3750MH0008340001304100C00	4100	autofocus sub-frame for intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3750MH0008340011304101C00	4101	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3750MH0008340021304102C00	4102	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3750MH0008340031304103C00	4103	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3750MH0008340031304104C00	4104	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3750MH0008340031304105C00	4105	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3750MH0008340031304106C00	4106	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3750MH0008340031304107C00	4107	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3750MH0008340031304108C00	4108	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3750MH0008340031304109C00	4109	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3750MH0008340031304110C00	4110	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00834	Tapo_Caparo after DRT APXS spot 2 stereo-2 ~5 cm standoff	3750MH0008340001304111C00	4111	autofocus sub-frame for intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3750MH0008340011304112C00	4112	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3750MH0008340021304113C00	4113	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3750MH0008340031304114C00	4114	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3750MH0008340031304115C00	4115	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3750MH0008340031304116C00	4116	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3750MH0008340031304117C00	4117	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3750MH0008340031304118C00	4118	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3750MH0008340031304119C00	4119	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3750MH0008340031304120C00	4120	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3750MH0008340031304121C00	4121	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00801	Tapo_Caparo after DRT APXS spot 2 ~1 cm standoff	3750MH0008010001304122C00	4122	autofocus sub-frame for intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm
		3750MH0008010011304123C00	4123	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm
		3750MH0008010021304124C00	4124	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - alternative auto-exposure
		3750MH0008010031304125C00	4125	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 1 in 8-image relative focus stack
		3750MH0008010031304126C00	4126	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 2 in 8-image relative focus stack
		3750MH0008010031304127C00	4127	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 3 in 8-image relative focus stack
		3750MH0008010031304128C00	4128	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 4 in 8-image relative focus stack
		3750MH0008010031304129C00	4129	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 5 in 8-image relative focus stack
		3750MH0008010031304130C00	4130	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 6 in 8-image relative focus stack
		3750MH0008010031304131C00	4131	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 7 in 8-image relative focus stack
		3750MH0008010031304132C00	4132	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00834	Tapo_Caparo after DRT APXS spot 1 ~5 cm standoff	3750MH0008340001304133C00	4133	autofocus sub-frame for intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3750MH0008340011304134C00	4134	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3750MH0008340021304135C00	4135	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - alternative auto-exposure
		3750MH0008340031304136C00	4136	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3750MH0008340031304137C00	4137	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3750MH0008340031304138C00	4138	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3750MH0008340031304139C00	4139	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3750MH0008340031304140C00	4140	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3750MH0008340031304141C00	4141	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3750MH0008340031304142C00	4142	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3750MH0008340031304143C00	4143	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00465	Tapo_Caparo after DRT after drill bit preload test ~35 cm standoff	3750MH0004650001304144C00	4144	autofocus sub-frame for intended Tapo_Caparo drill site - drill bit preload test - image acquired after preload - after sol 3750 dust removal tool (DRT) - standoff near 35 cm
		3750MH0004650011304145C00	4145	intended Tapo_Caparo drill site - drill bit preload test - image acquired after preload - after sol 3750 dust removal tool (DRT) - standoff near 35 cm
mhli00153	Focus Merges	3750MH0001530001304146R00	4146	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3750 with MSL CAMERA_PRODUCT_IDs 4136-4143 - best focus image product
		3750MH0001530001304147S00	4147	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3750 with MSL CAMERA_PRODUCT_IDs 4136-4143 - range map product
		3750MH0001530001304148R00	4148	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3750 with MSL CAMERA_PRODUCT_IDs 4125-4132 - best focus image product
		3750MH0001530001304149S00	4149	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3750 with MSL CAMERA_PRODUCT_IDs 4125-4132 - range map product
		3750MH0001530001304150R00	4150	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3750 with MSL CAMERA_PRODUCT_IDs 4114-4121 - best focus image product
		3750MH0001530001304151S00	4151	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3750 with MSL CAMERA_PRODUCT_IDs 4114-4121 - range map product
		3750MH0001530001304152R00	4152	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3750 with MSL CAMERA_PRODUCT_IDs 4103-4110 - best focus image product
		3750MH0001530001304153S00	4153	intended Tapo_Caparo drill site - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3750 with MSL CAMERA_PRODUCT_IDs 4103-4110 - range map product

updated: 07_March_2023

Sol 3752 - MAHLI Images

acquired/performed date(s):	25-Feb-23
camera positions:	1
total parent images:	2
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	2

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Drill preparation activities at the planned Tapo_Caparo sample extraction site. MAHLI imaged the intended site for the Tapo_Caparo sample discard pile.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Intended Tapo_Caparo Drill Sample Discard Site Before Discard ~25 cm standoff	3752MH0001900001304154C00	4154	autofocus sub-frame for intended Tapo_Caparo drill sample discard site - before drill attempt and before discard - standoff near 25 cm
		3752MH0001900011304155C00	4155	intended Tapo_Caparo drill sample discard site - before drill attempt and before discard - standoff near 25 cm

updated: 15_March_2023

Sol 3767 - MAHLI Images

acquired/performed date(s):	12-Mar-23
camera positions:	3
total parent images:	14
focus merges performed:	1
total focus merge products:	2
total parent images + focus merge products:	16

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the Tapo_Caparo drill hole and cuttings. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00197	Tapo_Caparo drill hole drilled on Sol 3752 ~24 cm standoff	3767MH0001970001304156C00	4156	autofocus sub-frame for drill hole in rock named Tapo_Caparo - drilled sol 3752 - standoff near 24 cm
		3767MH0001970011304157C00	4157	drill hole in rock named Tapo_Caparo - drilled sol 3752 - standoff near 24 cm
mhli00774	Tapo_Caparo drill hole drilled on Sol 3752 ~85 mm standoff	3767MH0007740001304158C00	4158	autofocus sub-frame for drill hole in rock named Tapo_Caparo - drilled sol 3752 - sub-frame positioned to focus on surface outside hole - standoff near 85 mm
		3767MH0007740011304159C00	4159	drill hole in rock named Tapo_Caparo - drilled sol 3752 - focus based on preceding autofocus sub-frame - standoff near 85 mm
mhli00152	Tapo_Caparo drill cuttings ~45 mm standoff	3767MH0001520001304160C00	4160	autofocus sub-frame for Tapo_Caparo drill cuttings - standoff near 45 mm
		3767MH0001520011304161C00	4161	Tapo_Caparo drill cuttings - standoff near 45 mm
		3767MH0001520021304162C00	4162	Tapo_Caparo drill cuttings - standoff near 45 mm - image 1 in 8-image relative focus stack
		3767MH0001520021304163C00	4163	Tapo_Caparo drill cuttings - standoff near 45 mm - image 2 in 8-image relative focus stack
		3767MH0001520021304164C00	4164	Tapo_Caparo drill cuttings - standoff near 45 mm - image 3 in 8-image relative focus stack
		3767MH0001520021304165C00	4165	Tapo_Caparo drill cuttings - standoff near 45 mm - image 4 in 8-image relative focus stack
		3767MH0001520021304166C00	4166	Tapo_Caparo drill cuttings - standoff near 45 mm - image 5 in 8-image relative focus stack
		3767MH0001520021304167C00	4167	Tapo_Caparo drill cuttings - standoff near 45 mm - image 6 in 8-image relative focus stack
		3767MH0001520021304168C00	4168	Tapo_Caparo drill cuttings - standoff near 45 mm - image 7 in 8-image relative focus stack
		3767MH0001520021304169C00	4169	Tapo_Caparo drill cuttings - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00258	Focus Merge	3767MH0002580001304170R00	4170	Tapo_Caparo drill cuttings - standoff near 45 mm - focus stack acquired sol 3767 with MSL CAMERA_PRODUCT_IDs 4162-4169 - best focus image product
		3767MH0002580001304171S00	4171	Tapo_Caparo drill cuttings - standoff near 45 mm - focus stack acquired sol 3767 with MSL CAMERA_PRODUCT_IDs 4162-4169 - range map product

updated: 17_March_2023

Sol 3769 - MAHLI Images

acquired/performed date(s):	14-Mar-23/15-Mar-23
camera positions:	7
total parent images:	57
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	67

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Tucupita and Mariapiri. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Tucupita ~25 cm standoff	3769MH0001900001304172C00	4172	autofocus sub-frame for target Tucupita - standoff near 25 cm
		3769MH0001900011304173C00	4173	target Tucupita - standoff near 25 cm
mhli00182	Tucupita stereo-1 ~45 mm standoff	3769MH0001820001304174C00	4174	autofocus sub-frame for target Tucupita - stereo-1 - standoff near 45 mm
		3769MH0001820011304175C00	4175	target Tucupita - stereo-1 - standoff near 45 mm
		3769MH0001820021304176C00	4176	target Tucupita - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3769MH0001820021304177C00	4177	target Tucupita - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3769MH0001820021304178C00	4178	target Tucupita - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3769MH0001820021304179C00	4179	target Tucupita - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3769MH0001820021304180C00	4180	target Tucupita - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3769MH0001820021304181C00	4181	target Tucupita - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3769MH0001820021304182C00	4182	target Tucupita - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3769MH0001820021304183C00	4183	target Tucupita - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00182	Tucupita stereo-2 ~5 cm standoff	3769MH0001820001304184C00	4184	autofocus sub-frame for target Tucupita - stereo-2 - standoff near 5 cm
		3769MH0001820011304185C00	4185	target Tucupita - stereo-2 - standoff near 5 cm
		3769MH0001820021304186C00	4186	target Tucupita - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3769MH0001820021304187C00	4187	target Tucupita - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3769MH0001820021304188C00	4188	target Tucupita - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3769MH0001820021304189C00	4189	target Tucupita - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3769MH0001820021304190C00	4190	target Tucupita - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3769MH0001820021304191C00	4191	target Tucupita - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3769MH0001820021304192C00	4192	target Tucupita - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3769MH0001820021304193C00	4193	target Tucupita - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00743	Tucupita ~1 cm standoff	3769MH0000743001304194C00	4194	autofocus sub-frame for target Tucupita - standoff near 1 cm
		3769MH0000743011304195C00	4195	target Tucupita - standoff near 1 cm
		3769MH0000743021304196C00	4196	target Tucupita - standoff near 1 cm - image 1 in 8-image relative focus stack
		3769MH0000743021304197C00	4197	target Tucupita - standoff near 1 cm - image 2 in 8-image relative focus stack
		3769MH0000743021304198C00	4198	target Tucupita - standoff near 1 cm - image 3 in 8-image relative focus stack
		3769MH0000743021304199C00	4199	target Tucupita - standoff near 1 cm - image 4 in 8-image relative focus stack
		3769MH0000743021304200C00	4200	target Tucupita - standoff near 1 cm - image 5 in 8-image relative focus stack
		3769MH0000743021304201C00	4201	target Tucupita - standoff near 1 cm - image 6 in 8-image relative focus stack
		3769MH0000743021304202C00	4202	target Tucupita - standoff near 1 cm - image 7 in 8-image relative focus stack
		3769MH0000743021304203C00	4203	target Tucupita - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00706	Mariapiri ~24 cm standoff	3769MH0000706000130420 4C00	4204	autofocus sub-frame for target Mariapiri - standoff near 24 cm
		3769MH0000706001130420 5C00	4205	target Mariapiri - standoff near 24 cm
		3769MH0000706021304206C00	4206	target Mariapiri - standoff near 24 cm - alternative auto-exposure
mhli00721	Mariapiri stereo-1 ~45 mm standoff	3769MH0000721000130420 7C00	4207	autofocus sub-frame for target Mariapiri - stereo-1 - standoff near 45 mm
		3769MH0000721001130420 8C00	4208	target Mariapiri - stereo-1 - standoff near 45 mm
		3769MH0000721002130420 9C00	4209	target Mariapiri - stereo-1 - standoff near 45 mm - alternative auto-exposure
		3769MH0000721003130421 0C00	4210	target Mariapiri - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3769MH0000721003130421 1C00	4211	target Mariapiri - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3769MH0000721003130421 2C00	4212	target Mariapiri - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3769MH0000721003130421 3C00	4213	target Mariapiri - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3769MH0000721003130421 4C00	4214	target Mariapiri - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3769MH0000721003130421 5C00	4215	target Mariapiri - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3769MH0000721003130421 6C00	4216	target Mariapiri - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3769MH0000721003130421 7C00	4217	target Mariapiri - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00721	Mariapiri stereo-2 ~45 mm standoff	3769MH0000721000130421 8C00	4218	autofocus sub-frame for target Mariapiri - stereo-2 - standoff near 45 mm
		3769MH0000721001130421 9C00	4219	target Mariapiri - stereo-2 - standoff near 45 mm
		3769MH0000721002130422 0C00	4220	target Mariapiri - stereo-2 - standoff near 45 mm - alternative auto-exposure
		3769MH0000721003130422 1C00	4221	target Mariapiri - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3769MH0000721003130422 2C00	4222	target Mariapiri - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3769MH0000721003130422 3C00	4223	target Mariapiri - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3769MH0000721003130422 4C00	4224	target Mariapiri - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3769MH0000721003130422 5C00	4225	target Mariapiri - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3769MH0000721003130422 6C00	4226	target Mariapiri - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3769MH0000721003130422 7C00	4227	target Mariapiri - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3769MH0000721003130422 8C00	4228	target Mariapiri - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00227	Focus Merges	3769MH0002270001304229R00	4229	target Mariapiri - stereo-2 - standoff near 45 mm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4221-4228 - best focus image product
		3769MH0002270001304230S00	4230	target Mariapiri - stereo-2 - standoff near 45 mm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4221-4228 - range map product
		3769MH0002270001304231R00	4231	target Mariapiri - stereo-1 - standoff near 45 mm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4210-4217 - best focus image product
		3769MH0002270001304232S00	4232	target Mariapiri - stereo-1 - standoff near 45 mm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4210-4217 - range map product
		3769MH0002270001304233R00	4233	target Tucupita - standoff near 1 cm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4196-4203 - best focus image product
		3769MH0002270001304234S00	4234	target Tucupita - standoff near 1 cm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4196-4203 - range map product
		3769MH0002270001304235R00	4235	target Tucupita - stereo-2 - standoff near 5 cm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4186-4193 - best focus image product
		3769MH0002270001304236S00	4236	target Tucupita - stereo-2 - standoff near 5 cm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4186-4193 - range map product
		3769MH0002270001304237R00	4237	target Tucupita - stereo-1 - standoff near 45 mm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4176-4183 - best focus image product
		3769MH0002270001304238S00	4238	target Tucupita - stereo-1 - standoff near 45 mm - focus stack acquired sol 3769 with MSL CAMERA_PRODUCT_IDs 4176-4183 - range map product

updated: 17_March_2023

Sol 3770 - MAHLI Images

acquired/performed date(s):	15-Mar-23
camera positions:	1
total parent images:	2
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	2

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the Tapo_Caparo drill hole and cuttings.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00148	Tapo_Caparo drill cuttings ~95 mm standoff	3770MH0001480001304239C00	4239	autofocus sub-frame for Tapo_Caparo drill cuttings - standoff near 95 mm
		3770MH0001480011304240C00	4240	Tapo_Caparo drill cuttings - standoff near 95 mm

updated: 17_March_2023

Sol 3771 - MAHLI Images

acquired/performed date(s):	16-Mar-23
camera positions:	3
total parent images:	22
focus merges performed:	2
total focus merge products:	4
total parent images + focus merge products:	26

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Tamanaco and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Tamanaco ~24 cm standoff	3771MH0001900001304241C00	4241	autofocus sub-frame for target Tamanaco - standoff near 24 cm
		3771MH0001900011304242C00	4242	target Tamanaco - standoff near 24 cm
mhli00306	Tamanaco stereo-1 ~4 cm standoff	3771MH0003060001304243C00	4243	autofocus sub-frame for target Tamanaco - stereo-1 - standoff near 4 cm
		3771MH0003060011304244C00	4244	target Tamanaco - stereo-1 - standoff near 4 cm
		3771MH0003060021304245C00	4245	target Tamanaco - stereo-1 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3771MH0003060021304246C00	4246	target Tamanaco - stereo-1 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3771MH0003060021304247C00	4247	target Tamanaco - stereo-1 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3771MH0003060021304248C00	4248	target Tamanaco - stereo-1 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3771MH0003060021304249C00	4249	target Tamanaco - stereo-1 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3771MH0003060021304250C00	4250	target Tamanaco - stereo-1 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3771MH0003060021304251C00	4251	target Tamanaco - stereo-1 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3771MH0003060021304252C00	4252	target Tamanaco - stereo-1 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00306	Tamanaco stereo-2 ~4 cm standoff	3771MH0003060001304253C00	4253	autofocus sub-frame for target Tamanaco - stereo-2 - standoff near 4 cm
		3771MH0003060011304254C00	4254	target Tamanaco - stereo-2 - standoff near 4 cm
		3771MH0003060021304255C00	4255	target Tamanaco - stereo-2 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3771MH0003060021304256C00	4256	target Tamanaco - stereo-2 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3771MH0003060021304257C00	4257	target Tamanaco - stereo-2 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3771MH0003060021304258C00	4258	target Tamanaco - stereo-2 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3771MH0003060021304259C00	4259	target Tamanaco - stereo-2 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3771MH0003060021304260C00	4260	target Tamanaco - stereo-2 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3771MH0003060021304261C00	4261	target Tamanaco - stereo-2 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3771MH0003060021304262C00	4262	target Tamanaco - stereo-2 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00265	Focus Merges	3771MH0002650001304263R00	4263	target Tamanaco - stereo-2 - standoff near 4 cm - focus stack acquired sol 3771 with MSL CAMERA_PRODUCT_IDs 4255-4262 - best focus image product
		3771MH0002650001304264S00	4264	target Tamanaco - stereo-2 - standoff near 4 cm - focus stack acquired sol 3771 with MSL CAMERA_PRODUCT_IDs 4255-4262 - range map product
		3771MH0002650001304265R00	4265	target Tamanaco - stereo-1 - standoff near 4 cm - focus stack acquired sol 3771 with MSL CAMERA_PRODUCT_IDs 4245-4252 - best focus image product
		3771MH0002650001304266S00	4266	target Tamanaco - stereo-1 - standoff near 4 cm - focus stack acquired sol 3771 with MSL CAMERA_PRODUCT_IDs 4245-4252 - range map product

updated: 04_April_2023

Sol 3773 - MAHLI Images

acquired/performed date(s):	18-Mar-23/19-Mar-23
camera positions:	16
total parent images:	152
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	152

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed targets San_Rafael and San_Francisco_de_Yuruani. MAHLI also acquired an 1x8 mosaic on Santa_Elena_de_Uairen which captures the transition from San_Rafael to San_Francisco_de_Yuruani.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	San_Rafael after DRT ~25 cm standoff	3773MH0007060001304267C00	4267	autofocus sub-frame for target San_Rafael - after dust removal tool (DRT) - standoff near 25 cm
		3773MH0007060011304268C00	4268	target San_Rafael - after dust removal tool (DRT) - standoff near 25 cm
		3773MH0007060021304269C00	4269	target San_Rafael - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00763	San_Rafael after DRT stereo-1 ~45 mm standoff	3773MH0007630001304270C00	4270	autofocus sub-frame for target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm
		3773MH0007630011304271C00	4271	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm
		3773MH0007630021304272C00	4272	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - alternative auto-exposure
		3773MH0007630031304273C00	4273	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3773MH0007630031304274C00	4274	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3773MH0007630031304275C00	4275	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3773MH0007630031304276C00	4276	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3773MH0007630031304277C00	4277	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3773MH0007630031304278C00	4278	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3773MH0007630031304279C00	4279	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3773MH0007630031304280C00	4280	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00763	San_Rafael after DRT stereo-2 ~45 mm standoff	3773MH0007630001304281C00	4281	autofocus sub-frame for target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm
		3773MH0007630011304282C00	4282	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm
		3773MH0007630021304283C00	4283	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - alternative auto-exposure
		3773MH0007630031304284C00	4284	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3773MH0007630031304285C00	4285	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3773MH0007630031304286C00	4286	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3773MH0007630031304287C00	4287	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3773MH0007630031304288C00	4288	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3773MH0007630031304289C00	4289	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3773MH0007630031304290C00	4290	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3773MH0007630031304291C00	4291	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00785	San_Rafael after DRT ~1 cm standoff	3773MH0007850001304292C00	4292	autofocus sub-frame for target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm
		3773MH0007850011304293C00	4293	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm
		3773MH0007850021304294C00	4294	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3773MH0007850031304295C00	4295	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3773MH0007850031304296C00	4296	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3773MH0007850031304297C00	4297	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3773MH0007850031304298C00	4298	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3773MH0007850031304299C00	4299	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3773MH0007850031304300C00	4300	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3773MH0007850031304301C00	4301	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3773MH0007850031304302C00	4302	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00706	San_Francisco_de_Yuruani after DRT ~25 cm standoff	3773MH0007060001304303C00	4303	autofocus sub-frame for target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 25 cm
		3773MH0007060011304304C00	4304	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 25 cm
		3773MH0007060021304305C00	4305	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00763	San_Francisco_de_Yuruani after DRT stereo-1 ~5 cm standoff	3773MH0007630001304306C00	4306	autofocus sub-frame for target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3773MH0007630011304307C00	4307	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3773MH0007630021304308C00	4308	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3773MH0007630031304309C00	4309	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3773MH0007630031304310C00	4310	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3773MH0007630031304311C00	4311	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3773MH0007630031304312C00	4312	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3773MH0007630031304313C00	4313	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3773MH0007630031304314C00	4314	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3773MH0007630031304315C00	4315	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3773MH0007630031304316C00	4316	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	San_Francisco_de_Yuruani after DRT stereo-2 ~5 cm standoff	3773MH0007630001304317C00	4317	autofocus sub-frame for target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3773MH0007630011304318C00	4318	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3773MH0007630021304319C00	4319	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3773MH0007630031304320C00	4320	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3773MH0007630031304321C00	4321	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3773MH0007630031304322C00	4322	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3773MH0007630031304323C00	4323	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3773MH0007630031304324C00	4324	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3773MH0007630031304325C00	4325	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3773MH0007630031304326C00	4326	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3773MH0007630031304327C00	4327	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli0835	San_Francisco_de_Yuruani after DRT ~1 cm standoff	3773MH00083500013043280D00	4328	autofocus sub-frame for target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm
		3773MH00083500113043290D00	4329	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm
		3773MH00083500213043300D00	4330	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3773MH00083500313043310D00	4331	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3773MH00083500313043320D00	4332	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3773MH00083500313043330D00	4333	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3773MH00083500313043340D00	4334	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3773MH00083500313043350D00	4335	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3773MH00083500313043360D00	4336	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3773MH00083500313043370D00	4337	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3773MH00083500313043380D00	4338	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli0841	Santa_Elena_de_Uairen captures transition from San_Rafael to San_Francisco_de_Yuruani after DRT mosaic position 1 of 8 ~15 cm standoff	3773MH00084100013043390D00	4339	autofocus sub-frame for Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm
		3773MH00084100113043400D00	4340	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm
		3773MH00084100213043410D00	4341	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - image 1 in 8-image relative focus stack
		3773MH00084100213043420D00	4342	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - image 2 in 8-image relative focus stack
		3773MH00084100213043430D00	4343	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - image 3 in 8-image relative focus stack
		3773MH00084100213043440D00	4344	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - image 4 in 8-image relative focus stack
		3773MH00084100213043450D00	4345	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - image 5 in 8-image relative focus stack
		3773MH00084100213043460D00	4346	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - image 6 in 8-image relative focus stack
		3773MH00084100213043470D00	4347	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - image 7 in 8-image relative focus stack
		3773MH00084100213043480D00	4348	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - image 8 in 8-image relative focus stack
mhli0841	Santa_Elena_de_Uairen captures transition from San_Rafael to San_Francisco_de_Yuruani after DRT mosaic position 2 of 8 ~15 cm standoff	3773MH00084100013043490D00	4349	autofocus sub-frame for Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm
		3773MH00084100113043500D00	4350	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm
		3773MH00084100213043510D00	4351	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - image 1 in 8-image relative focus stack
		3773MH00084100213043520D00	4352	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - image 2 in 8-image relative focus stack
		3773MH00084100213043530D00	4353	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - image 3 in 8-image relative focus stack
		3773MH00084100213043540D00	4354	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - image 4 in 8-image relative focus stack
		3773MH00084100213043550D00	4355	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - image 5 in 8-image relative focus stack
		3773MH00084100213043560D00	4356	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - image 6 in 8-image relative focus stack
		3773MH00084100213043570D00	4357	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - image 7 in 8-image relative focus stack
		3773MH00084100213043580D00	4358	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - image 8 in 8-image relative focus stack
mhli0841	Santa_Elena_de_Uairen captures transition from San_Rafael to San_Francisco_de_Yuruani after DRT mosaic position 3 of 8 ~16 cm standoff	3773MH00084100013043590D00	4359	autofocus sub-frame for Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm
		3773MH00084100113043600D00	4360	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm
		3773MH00084100213043610D00	4361	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - image 1 in 8-image relative focus stack
		3773MH00084100213043620D00	4362	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - image 2 in 8-image relative focus stack
		3773MH00084100213043630D00	4363	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - image 3 in 8-image relative focus stack
		3773MH00084100213043640D00	4364	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - image 4 in 8-image relative focus stack
		3773MH00084100213043650D00	4365	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - image 5 in 8-image relative focus stack
		3773MH00084100213043660D00	4366	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - image 6 in 8-image relative focus stack
		3773MH00084100213043670D00	4367	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - image 7 in 8-image relative focus stack
		3773MH00084100213043680D00	4368	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - image 8 in 8-image relative focus stack
mhli0841	Santa_Elena_de_Uairen captures transition from San_Rafael to San_Francisco_de_Yuruani after DRT mosaic position 4 of 8 ~17 cm standoff	3773MH00084100013043690D00	4369	autofocus sub-frame for Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm
		3773MH00084100113043700D00	4370	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm
		3773MH00084100213043710D00	4371	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - image 1 in 8-image relative focus stack
		3773MH00084100213043720D00	4372	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - image 2 in 8-image relative focus stack
		3773MH00084100213043730D00	4373	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - image 3 in 8-image relative focus stack
		3773MH00084100213043740D00	4374	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - image 4 in 8-image relative focus stack
		3773MH00084100213043750D00	4375	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - image 5 in 8-image relative focus stack
		3773MH00084100213043760D00	4376	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - image 6 in 8-image relative focus stack
		3773MH00084100213043770D00	4377	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - image 7 in 8-image relative focus stack
		3773MH00084100213043780D00	4378	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - image 8 in 8-image relative focus stack
mhli0841	Santa_Elena_de_Uairen captures transition from San_Rafael to San_Francisco_de_Yuruani after DRT mosaic position 5 of 8 ~17 cm standoff	3773MH00084100013043790D00	4379	autofocus sub-frame for Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm
		3773MH00084100113043800D00	4380	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm
		3773MH00084100213043810D00	4381	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - image 1 in 8-image relative focus stack
		3773MH00084100213043820D00	4382	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - image 2 in 8-image relative focus stack
		3773MH00084100213043830D00	4383	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - image 3 in 8-image relative focus stack
		3773MH00084100213043840D00	4384	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - image 4 in 8-image relative focus stack
		3773MH00084100213043850D00	4385	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - image 5 in 8-image relative focus stack
		3773MH00084100213043860D00	4386	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - image 6 in 8-image relative focus stack
		3773MH00084100213043870D00	4387	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - image 7 in 8-image relative focus stack
		3773MH00084100213043880D00	4388	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - image 8 in 8-image relative focus stack
mhli0841	Santa_Elena_de_Uairen captures transition from San_Rafael to San_Francisco_de_Yuruani after DRT mosaic position 6 of 8 ~17 cm standoff	3773MH00084100013043890D00	4389	autofocus sub-frame for Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm
		3773MH00084100113043900D00	4390	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm
		3773MH00084100213043910D00	4391	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - image 1 in 8-image relative focus stack
		3773MH00084100213043920D00	4392	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - image 2 in 8-image relative focus stack
		3773MH00084100213043930D00	4393	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - image 3 in 8-image relative focus stack
		3773MH00084100213043940D00	4394	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - image 4 in 8-image relative focus stack
		3773MH00084100213043950D00	4395	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - image 5 in 8-image relative focus stack
		3773MH00084100213043960D00	4396	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - image 6 in 8-image relative focus stack
		3773MH00084100213043970D00	4397	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - image 7 in 8-image relative focus stack
		3773MH00084100213043980D00	4398	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00841	Santa_Elena_de_Uairen captures transition from San_Rafael to San_Francisco_de_Yuruani after DRT mosaic position 7 of 8 ~17 cm standoff	3773MH00084100001304399C00	4399	autofocus sub-frame for Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm
		3773MH00084100011304400C00	4400	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm
		3773MH00084100021304401C00	4401	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - image 1 in S-image relative focus stack
		3773MH00084100021304402C00	4402	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - image 2 in S-image relative focus stack
		3773MH00084100021304403C00	4403	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - image 3 in S-image relative focus stack
		3773MH00084100021304404C00	4404	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - image 4 in S-image relative focus stack
		3773MH00084100021304405C00	4405	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - image 5 in S-image relative focus stack
		3773MH00084100021304406C00	4406	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - image 6 in S-image relative focus stack
		3773MH00084100021304407C00	4407	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - image 7 in S-image relative focus stack
		3773MH00084100021304408C00	4408	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - image 8 in S-image relative focus stack
mhli00841	Santa_Elena_de_Uairen captures transition from San_Rafael to San_Francisco_de_Yuruani after DRT mosaic position 8 of 8 ~16 cm standoff	3773MH00084100001304409C00	4409	autofocus sub-frame for Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm
		3773MH00084100011304410C00	4410	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm
		3773MH00084100021304411C00	4411	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - image 1 in S-image relative focus stack
		3773MH00084100021304412C00	4412	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - image 2 in S-image relative focus stack
		3773MH00084100021304413C00	4413	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - image 3 in S-image relative focus stack
		3773MH00084100021304414C00	4414	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - image 4 in S-image relative focus stack
		3773MH00084100021304415C00	4415	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - image 5 in S-image relative focus stack
		3773MH00084100021304416C00	4416	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - image 6 in S-image relative focus stack
		3773MH00084100021304417C00	4417	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - image 7 in S-image relative focus stack
		3773MH00084100021304418C00	4418	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - image 8 in S-image relative focus stack

updated: 04_April_2023

Sol 3774 - MAHLI Images

acquired/performed date(s):	19-Mar-23
camera positions:	0
total parent images:	0
focus merges performed:	14
total focus merge products:	28
total parent images + focus merge products:	28

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3773 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00728	Focus Merges	3774MH0007280001304419R00	4419	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4411-4418 - best focus image product
		3774MH0007280001304420S00	4420	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 8 of 8 - standoff near 16 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4411-4418 - range map product
		3774MH0007280001304421R00	4421	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4401-4408 - best focus image product
		3774MH0007280001304422S00	4422	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 7 of 8 - standoff near 17 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4401-4408 - range map product
		3774MH0007280001304423R00	4423	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4391-4398 - best focus image product
		3774MH0007280001304424S00	4424	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 6 of 8 - standoff near 17 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4391-4398 - range map product
		3774MH0007280001304425R00	4425	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4381-4388 - best focus image product
		3774MH0007280001304426S00	4426	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 5 of 8 - standoff near 17 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4381-4388 - range map product
		3774MH0007280001304427R00	4427	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4371-4378 - best focus image product
		3774MH0007280001304428S00	4428	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 4 of 8 - standoff near 17 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4371-4378 - range map product
		3774MH0007280001304429R00	4429	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4361-4368 - best focus image product
		3774MH0007280001304430S00	4430	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 3 of 8 - standoff near 16 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4361-4368 - range map product
		3774MH0007280001304431R00	4431	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4351-4358 - best focus image product
		3774MH0007280001304432S00	4432	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 2 of 8 - standoff near 15 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4351-4358 - range map product
		3774MH0007280001304433R00	4433	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4341-4348 - best focus image product
		3774MH0007280001304434S00	4434	Santa_Elena_de_Uairen mosaic - transition from target San_Rafael to target San_Francisco_de_Yuruani - after sol 3773 dust removal tool (DRT) - mosaic position 1 of 8 - standoff near 15 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4341-4348 - range map product
		3774MH0007280001304435R00	4435	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4331-4338 - range map product
		3774MH0007280001304436S00	4436	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4331-4338 - range map product
		3774MH0007280001304437R00	4437	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4320-4327 - best focus image product
		3774MH0007280001304438S00	4438	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4320-4327 - range map product
		3774MH0007280001304439R00	4439	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4309-4316 - best focus image product
		3774MH0007280001304440S00	4440	target San_Francisco_de_Yuruani - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4309-4316 - range map product
		3774MH0007280001304441R00	4441	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4295-4302 - best focus image product
		3774MH0007280001304442S00	4442	target San_Rafael - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4295-4302 - range map product
		3774MH0007280001304443R00	4443	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4284-4291 - best focus image product
		3774MH0007280001304444S00	4444	target San_Rafael - after dust removal tool (DRT) - stereo-2 - standoff near 45 mm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4284-4291 - range map product
		3774MH0007280001304445R00	4445	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4273-4280 - best focus image product
		3774MH0007280001304446S00	4446	target San_Rafael - after dust removal tool (DRT) - stereo-1 - standoff near 45 mm - focus stack acquired sol 3773 with MSL CAMERA_PRODUCT_IDs 4273-4280 - range map product

updated: 23_March_2023

Sol 3776 - MAHLI Images

acquired/performed date(s):	21-Mar-23/22-Mar-23
camera positions:	4
total parent images:	32
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	38

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Rio_Urubu and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Rio_Urubu ~25 cm standoff	3776MH0001900001304447C00	4447	autofocus sub-frame for target Rio_Urubu - standoff near 25 cm
		3776MH0001900011304448C00	4448	target Rio_Urubu - standoff near 25 cm
mhli00308	Rio_Urubu stereo-1 ~55 mm standoff	3776MH0003080001304449C00	4449	autofocus sub-frame for target Rio_Urubu - stereo-1 - standoff near 55 mm
		3776MH0003080011304450C00	4450	target Rio_Urubu - stereo-1 - standoff near 55 mm
		3776MH0003080021304451C00	4451	target Rio_Urubu - stereo-1 - standoff near 55 mm - image 1 in 8-image relative focus stack
		3776MH0003080021304452C00	4452	target Rio_Urubu - stereo-1 - standoff near 55 mm - image 2 in 8-image relative focus stack
		3776MH0003080021304453C00	4453	target Rio_Urubu - stereo-1 - standoff near 55 mm - image 3 in 8-image relative focus stack
		3776MH0003080021304454C00	4454	target Rio_Urubu - stereo-1 - standoff near 55 mm - image 4 in 8-image relative focus stack
		3776MH0003080021304455C00	4455	target Rio_Urubu - stereo-1 - standoff near 55 mm - image 5 in 8-image relative focus stack
		3776MH0003080021304456C00	4456	target Rio_Urubu - stereo-1 - standoff near 55 mm - image 6 in 8-image relative focus stack
		3776MH0003080021304457C00	4457	target Rio_Urubu - stereo-1 - standoff near 55 mm - image 7 in 8-image relative focus stack
		3776MH0003080021304458C00	4458	target Rio_Urubu - stereo-1 - standoff near 55 mm - image 8 in 8-image relative focus stack
mhli00308	Rio_Urubu stereo-2 ~55 mm standoff	3776MH0003080001304459C00	4459	autofocus sub-frame for target Rio_Urubu - stereo-2 - standoff near 55 mm
		3776MH0003080011304460C00	4460	target Rio_Urubu - stereo-2 - standoff near 55 mm
		3776MH0003080021304461C00	4461	target Rio_Urubu - stereo-2 - standoff near 55 mm - image 1 in 8-image relative focus stack
		3776MH0003080021304462C00	4462	target Rio_Urubu - stereo-2 - standoff near 55 mm - image 2 in 8-image relative focus stack
		3776MH0003080021304463C00	4463	target Rio_Urubu - stereo-2 - standoff near 55 mm - image 3 in 8-image relative focus stack
		3776MH0003080021304464C00	4464	target Rio_Urubu - stereo-2 - standoff near 55 mm - image 4 in 8-image relative focus stack
		3776MH0003080021304465C00	4465	target Rio_Urubu - stereo-2 - standoff near 55 mm - image 5 in 8-image relative focus stack
		3776MH0003080021304466C00	4466	target Rio_Urubu - stereo-2 - standoff near 55 mm - image 6 in 8-image relative focus stack
		3776MH0003080021304467C00	4467	target Rio_Urubu - stereo-2 - standoff near 55 mm - image 7 in 8-image relative focus stack
		3776MH0003080021304468C00	4468	target Rio_Urubu - stereo-2 - standoff near 55 mm - image 8 in 8-image relative focus stack
mhli00428	Rio_Urubu ~25 mm standoff	3776MH0004280001304469C00	4469	autofocus sub-frame for target Rio_Urubu - standoff near 25 mm
		3776MH0004280011304470C00	4470	target Rio_Urubu - standoff near 25 mm
		3776MH0004280021304471C00	4471	target Rio_Urubu - standoff near 25 mm - image 1 in 8-image relative focus stack
		3776MH0004280021304472C00	4472	target Rio_Urubu - standoff near 25 mm - image 2 in 8-image relative focus stack
		3776MH0004280021304473C00	4473	target Rio_Urubu - standoff near 25 mm - image 3 in 8-image relative focus stack
		3776MH0004280021304474C00	4474	target Rio_Urubu - standoff near 25 mm - image 4 in 8-image relative focus stack
		3776MH0004280021304475C00	4475	target Rio_Urubu - standoff near 25 mm - image 5 in 8-image relative focus stack
		3776MH0004280021304476C00	4476	target Rio_Urubu - standoff near 25 mm - image 6 in 8-image relative focus stack
		3776MH0004280021304477C00	4477	target Rio_Urubu - standoff near 25 mm - image 7 in 8-image relative focus stack
		3776MH0004280021304478C00	4478	target Rio_Urubu - standoff near 25 mm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3776MH0001930001304479R00	4479	target Rio_Urubu - standoff near 25 mm - focus stack acquired sol 3776 with MSL CAMERA_PRODUCT_IDs 4471-4478 - best focus image product
		3776MH0001930001304480S00	4480	target Rio_Urubu - standoff near 25 mm - focus stack acquired sol 3776 with MSL CAMERA_PRODUCT_IDs 4471-4478 - range map product
		3776MH0001930001304481R00	4481	target Rio_Urubu - stereo-2 - standoff near 55 mm - focus stack acquired sol 3776 with MSL CAMERA_PRODUCT_IDs 4461-4468 - best focus image product
		3776MH0001930001304482S00	4482	target Rio_Urubu - stereo-2 - standoff near 55 mm - focus stack acquired sol 3776 with MSL CAMERA_PRODUCT_IDs 4461-4468 - range map product
		3776MH0001930001304483R00	4483	target Rio_Urubu - stereo-1 - standoff near 55 mm - focus stack acquired sol 3776 with MSL CAMERA_PRODUCT_IDs 4451-4458 - best focus image product
		3776MH0001930001304484S00	4484	target Rio_Urubu - stereo-1 - standoff near 55 mm - focus stack acquired sol 3776 with MSL CAMERA_PRODUCT_IDs 4451-4458 - range map product

updated: 29_March_2023

Sol 3778 - MAHLI Images

acquired/performed date(s):	23-Mar-23/24-Mar-23
camera positions:	5
total parent images:	35
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	41

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the REMS UV Sensor and the DRT-brushed target Marabitana. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00095	REMS UV sensor ~15 cm standoff	3778MH0000950001304485C00	4485	autofocus sub-frame for REMS UV sensor - characterize dust accumulation
		3778MH0000950011304486C00	4486	REMS UV sensor - characterize dust accumulation
mhli00706	Marabitana after DRT ~25 cm standoff	3778MH0000706001304487C00	4487	autofocus sub-frame for target Marabitana - after dust removal tool (DRT) - standoff near 25 cm
		3778MH0000706011304488C00	4488	target Marabitana - after dust removal tool (DRT) - standoff near 25 cm
		3778MH0000706002304489C00	4489	target Marabitana - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00168	Marabitana after DRT stereo-1 ~5 cm standoff	3778MH0001680001304490C00	4490	autofocus sub-frame for target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3778MH0001680011304491C00	4491	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3778MH0001680021304492C00	4492	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3778MH0001680021304493C00	4493	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3778MH0001680021304494C00	4494	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3778MH0001680021304495C00	4495	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3778MH0001680021304496C00	4496	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3778MH0001680021304497C00	4497	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3778MH0001680021304498C00	4498	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3778MH0001680021304499C00	4499	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00168	Marabitana after DRT stereo-2 ~5 cm standoff	3778MH0001680001304500C00	4500	autofocus sub-frame for target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3778MH0001680011304501C00	4501	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3778MH0001680021304502C00	4502	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3778MH0001680021304503C00	4503	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3778MH0001680021304504C00	4504	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3778MH0001680021304505C00	4505	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3778MH0001680021304506C00	4506	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3778MH0001680021304507C00	4507	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3778MH0001680021304508C00	4508	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3778MH0001680021304509C00	4509	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00848	Marabitana after DRT ~1 cm standoff	3778MH0008480001304510C00	4510	autofocus sub-frame for target Marabitana - after dust removal tool (DRT) - standoff near 1 cm
		3778MH0008480011304511C00	4511	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm
		3778MH0008480021304512C00	4512	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3778MH0008480021304513C00	4513	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3778MH0008480021304514C00	4514	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3778MH0008480021304515C00	4515	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3778MH0008480021304516C00	4516	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3778MH0008480021304517C00	4517	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3778MH0008480021304518C00	4518	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3778MH0008480021304519C00	4519	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3778MH0001930001304520R00	4520	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3778 with MSL CAMERA_PRODUCT_IDs 4512-4519 - best focus image product
		3778MH0001930001304521S00	4521	target Marabitana - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3778 with MSL CAMERA_PRODUCT_IDs 4512-4519 - range map product
		3778MH0001930001304522R00	4522	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3778 with MSL CAMERA_PRODUCT_IDs 4502-4509 - best focus image product
		3778MH0001930001304523S00	4523	target Marabitana - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3778 with MSL CAMERA_PRODUCT_IDs 4502-4509 - range map product
		3778MH0001930001304524R00	4524	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3778 with MSL CAMERA_PRODUCT_IDs 4492-4499 - best focus image product
		3778MH0001930001304525S00	4525	target Marabitana - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3778 with MSL CAMERA_PRODUCT_IDs 4492-4499 - range map product

7 Definitions, conventions, and acronyms

7.1 Definitions and conventions

absolute focus stack
A MAHLI focus stack acquired using a commanded (manual) focus setting. The starting focus position (a stepper motor count), and the incremental change in focus position (a stepper motor count interval) between frames in the focus stack, are specified by instrument commanding.

best focus image product
A *focus merge product* created onboard the MAHLI instrument from up to 8 *parent images* acquired as a focus stack. The *best focus image product* is a color JPEG that combines the in-focus (or closest to in-focus) elements of the up to 8 *parent images* into a single image. The onboard focus merge software also creates a *range map product*.

focus merge product
Using the methods described by Edgett *et al.* (2012), *focus merge products* are created onboard the MAHLI instrument from up to 8 *parent images* acquired as a focus stack. Two products are created, a *best focus image product* and a *range map product*.

MAHLI toolframe +X distance
Same as *standoff distance*. See *standoff distance*.

parent and child images
Every MAHLI image has a *parent image,* the picture originally commanded to be acquired. Upon command, the parent image can spawn children (each a *child image)* onboard the instrument. Examples of children include *thumbnail images*, focus merge products, and any version of the image that is compressed differently than the parent (Edgett *et al.* 2012). While a parent can be an image that was compressed during image acquisition, our best practice since landing on Mars has been to acquire and store (onboard the instrument) most MAHLI images in uncompressed 8-bit form. An uncompressed 8-bit parent image can be commanded for compression some time after acquisition and storage, whereas a parent that was compressed at the time of acquisition cannot be further compressed onboard the instrument. When a parent is stored onboard in uncompressed form, it can be used to create multiple versions of the image, each time with a different compression scheme, for downlink to Earth. Thus, if the image received is over-compressed, we have the option to retrieve it again (as many times as necessary) in a less compressed form. Indeed, the majority of MAHLI images received from Mars have been losslessly compressed children of an uncompressed, 8-bit parent.

range
Used here in the context of describing a focus merge range map product, this term refers to the distance between the front lens element and in-focus elements of the imaged subject in a given MAHLI focus merge product. As each MAHLI focus stack is acquired at a fixed *working distance*, the range denotes the distance between the camera and the relief elements of the target (*i.e.*, subject), as indicated by grayscale pixel values (data number, DN) in the range map product.

range map product
A grayscale JPEG image *focus merge product* created onboard the MAHLI instrument from up to 8 *parent images* acquired as a focus stack. The *range map product* accompanies a *best focus image product*. The grayscale pixel values (data number, DN) can be correlated with knowledge of instrument focus, *working distance*, *range*, and pixel scale.

RATIONALE_DESC
The term, RATIONALE_DESC, comes from the NASA PDS archivists. The RATIONALE_DESC for a given MAHLI image is a text description of the rationale or purpose behind the acquisition of a given MAHLI parent image or onboard focus merge product. Each parent image RATIONALE_DESC provides information that the MAHLI team desired to communicate to data users, such as the intended image target, intended working or standoff distance, intended purpose of the image (e.g., stereo, mosaic, autofocus sub-frame, range-finding), image position in a focus stack, as well as information regarding how the image supports observations made by other MSL science instruments, especially APXS and ChemCam. The RATIONALE_DESC for a focus merge product tells the user which images were merged (on what sol they were acquired and images of which CDPIDs were merged), as well as the focus merge product type (best focus or range map product).

relative focus stack
A MAHLI focus stack acquired using a starting focus position determined by a preceding instrument command. Usually, this is a focus setting based upon a focus position determined by a preceding autofocus command. The incremental change in focus position (a stepper motor count interval) between frames in the focus stack is specified by instrument commanding.

RP distance
RP refers to Rover Planners, the personnel who drive the Curiosity rover and operate its robotic arm. RP distance is equivalent to *standoff distance*. See definition of *standoff distance*.

sol
A Martian day; duration of ~1.027 Earth days.

Sol
A specific Martian sol during the MSL Curiosity mission. Because it landed during local afternoon, the sol that Curiosity arrived on Mars was designated Sol 0 and the first full sol after landing was Sol 1.

standoff distance
Also known as the MAHLI *toolframe distance* and *RP distance*, this is range between the subject photographed and the Y, Z plane defined by the two MAHLI contact sensor probe tips when they are not in contact with a surface. In the MAHLI toolframe, the X axis is equivalent to the instrument's optic (z) axis; the distance between the Y, Z plane and the subject is +X; the –X-axis goes from the Y, Z plane into the camera. Standoff *distance* and *RP distance* are equivalent to the +X MAHLI toolframe distance. MAHLI *standoff distance* is 1.9 cm less than *working distance*.

thumbnail images
Reduced-size versions of MAHLI *parent images* and *focus merge products*, approximately 1/8th size in terms of pixel dimensions. Under most circumstances, a *thumbnail image* is returned to Earth for every *parent image* acquired or *focus merge product* created, whether a full-size version of the *parent image* (or a *child image*) or *focus merge product* is returned or not.

working distance
A photography term that refers to the range between the front lens element of a camera and the subject imaged. MAHLI working distance is 1.9 cm greater than the toolframe (also known as standoff or RP) distance.

7.2 Acronyms

APXS
Alpha Particle X-ray Spectrometer (science instrument aboard MSL Curiosity rover)

CDPID or **MSL:CAMERA_PRODUCT_ID**
Each MAHLI parent image acquired or onboard focus merge product created and stored in the instrument's DEA flash memory is assigned a Camera Data Product ID (CDPID). This identifier, plus the time at which (or sol on which) the data were acquired, uniquely identify each image. The CDPID and sol are incorporated into the image ID. Data acquired by the camera but not stored in the DEA have less unique CDPIDs; these acquisitions have generally been rare and easy for the operations team to track (*i.e.*, 12 such images were obtained during Interplanetary Cruise, only one such image was obtained during the first 1000 sols of operations on Mars).

ChemCam
Chemistry Camera; Laser Induced Breakdown Spectrometer (LIBS) and Remote Microscopic Imager (RMI) (science instrument suite aboard MSL Curiosity rover)

CheMin
Chemistry and Mineralogy x-ray diffraction (XRD) and x-ray fluorescence (XRF) sample analysis investigation (science instrument aboard MSL Curiosity rover)

CHIMRA
Collection and Handling for Interior Martian Rock Analysis (sample handling and processing subsystem on Curiosity's robotic arm)

DEA
Digital Electronics Assembly, the MAHLI electronics housed inside Curiosity's rover body.

DN
data number (image pixel value)

DOF
image depth of field

DRT
Dust Removal Tool (wire brush tool on Curiosity's robotic arm)

EDR
Experiment Data Record

Hazcam(s)
Hazard cameras (engineering cameras aboard MSL Curiosity rover)

ID or **image ID**
Image identifier (NASA PDS image identifier for MAHLI images and focus merge products).

JPL-Caltech
Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA

MAHLI
Mars Hand Lens Imager (science instrument aboard MSL Curiosity rover)

MARDI
Mars Descent Imager (science instrument aboard MSL Curiosity rover)

Mastcam-34 (also M-34 and M34)
34 mm focal length Mast Camera (science instrument aboard MSL Curiosity rover)

Mastcam-100 (also M-100 and M100)
100 mm focal length Mast Camera (science instrument aboard MSL Curiosity rover)

MSL
Mars Science Laboratory

MSSS
Malin Space Science Systems, San Diego, California, USA

NASA
National Aeronautics and Space Administration (USA space agency)

Navcam(s)
Navigation cameras (engineering cameras aboard MSL Curiosity rover)

PDS
Planetary Data System (NASA planetary science data archives)

QMS
Quadrupole Mass Spectrometer (part of the SAM instrument suite aboard MSL Curiosity rover)

RDR
Reduced Data Record

REMS
Rover Environment and Monitoring Station (science instrument suite aboard MSL Curiosity rover)

SAM
Sample Analysis at Mars (science instrument suite aboard MSL Curiosity rover)

TLS
Tunable Laser Spectrometer (part of the SAM instrument suite aboard MSL Curiosity rover)

USA
United States of America

UTC
Coordinated Universal Time

Acknowledgements

The MAHLI investigation was developed and operated under subcontracts to Malin Space Science Systems in collaboration with JPL-Caltech (Jet Propulsion Laboratory, California Institute of Technology) under the direction of NASA. JPL-Caltech manages the MSL mission for NASA. MAHLI instrument operations and science are supported by a team of personnel at Malin Space Science Systems, the Planetary Science Institute, JPL-Caltech, and across the USA and the world; they are all thanked for their monumental efforts to assist in the success of the investigation.

References

Anderson, R. C., L. W. Beegle, J. Hurowitz, C. Hanson, W. Abbey, C. Seybold, D. Limonadi, S. Kuhn, L. Jandura, K. Brown, G. Peters, C. Roumeliotis, M. Robinson, K. Edgett, M. Minitti, J. Grotzinger (2015) The Mars Science Laboratory scooping campaign at Rocknest, *Icarus 256*, 66–77. https://doi.org/10.1016/j.icarus.2015.03.033

Edgett, K. S., R. A. Yingst, M. A. Ravine, M. A. Caplinger, J. N. Maki, F. T. Ghaemi, J. A. Schaffner, J. F. Bell III, L. J. Edwards, K. E. Herkenhoff, E. Heydari, L. C. Kah, M. T. Lemmon, M. E. Minitti, T. S. Olson, T. J. Parker, S. K. Rowland, J. Schieber, R. J. Sullivan, D. Y. Sumner, P. C. Thomas, E. H. Jensen, J. J. Simmonds, A. J. Sengstacken, R. G. Willson, and W. Goetz (2012) Curiosity's Mars Hand Lens Imager (MAHLI) investigation, *Space Sci. Rev. 170*, 259–317. https://doi.org/10.1007/s11214-012-9910-4

Edgett, K. S., R. A. Yingst, and the MSL Science Team (2013) Curiosity's Mars Hand Lens Imager (MAHLI): Sol 0–179 activities, observations, range and scale characterization, *European Planetary Science Congress 2013*, vol. *8*, Abstract EPSC2013-246. (8–13 September 2013, London, United Kingdom)

Edgett, K. S., M. A. Caplinger, J. N. Maki, M. A. Ravine, F. T. Ghaemi, S. McNair, K. E. Herkenhoff, B. M. Duston, R. G. Willson, R. A. Yingst, M. R. Kennedy, M. E. Minitti, A. J. Sengstacken, K. D. Supulver, L. J. Lipkaman, G. M. Krezoski, M. J. McBride, T. L. Jones, B. E. Nixon, J. K. Van Beek, D. J. Krysak, and R. L. Kirk (2015) Curiosity's robotic arm-mounted Mars Hand Lens Imager (MAHLI): Characterization and calibration status, *MSL MAHLI Technical Report 0001* (version 1: 19 June 2015; version 2: 05 October 2015). https://doi.org/10.13140/RG.2.1.3798.5447

Garvin, J. B., K. S. Edgett, R. Dotson, D. M. Fey, K. E. Herkenhoff, B. J. Hallet, M. R. Kennedy (2017) Quantitative relief models of rock surfaces on Mars at sub-millimeter scales from Mars Curiosity rover Mars Hand Lens Imager (MAHLI) observations: Geologic implications, *Microscopy and Microanalysis 23*(S1), 2146–2147. https://doi.org/10.1017/S1431927617011394

Malin, M., Edgett, K., Jensen, E., Lipkaman, L. (2013) Mast Camera (Mastcam), Mars Hand Lens Imager (MAHLI), and Mars Descent Imager (MARDI) Experiment Data Record (EDR) and Reduced Data Record (RDR) PDS data products, version 1.2, *Mars Science Laboratory Project Software Interface Specification (SIS)*, JPL D-75410, SIS-

SCI0135-MSL, file MSL_MMM_EDR_RDR_DPSIS.PDF archived by the NASA Planetary Data System, 29 October 2013.

Minitti, M. E., L. C. Kah, R. A. Yingst, K. S. Edgett, R. C. Anderson, L. W. Beegle, J. L. Carsten, R. G. Deen, W. Goetz, C. Hardgrove, D. E. Harker, K. E. Herkenhoff, J. A. Hurowitz, L. Jandura, M. R. Kennedy, G. Kocurek, G. M. Krezoski, S. R. Kuhn, D. Limonadi, L. Lipkaman, M. B. Madsen, T. S. Olson, M. L. Robinson, S. K. Rowland, D. M. Rubin, C. Seybold, J. Schieber, M. Schmidt, D. Y. Sumner, V. V. Tompkins, J. K. Van Beek, T. Van Beek (2013) MAHLI at the Rocknest sand shadow: Science and science-enabling activities, *J. Geophys. Res. 118*(11), 2338–2360. https://doi.org/10.1002/2013JE004426

Vasavada, A. R., J. P. Grotzinger, R. E. Arvidson, F. J. Calef, J. A. Crisp, S. Gupta, J. Hurowitz, N. Mangold, S. Maurice, M. E. Schmidt, R. C. Wiens, R. M. E. Williams, and R. A. Yingst (2014) Overview of the Mars Science Laboratory mission: Bradbury Landing to Yellowknife Bay and beyond, *J. Geophys. Res. 119*, 1134–1161. https://doi.org/10.1002/2014JE004622

Yingst, R. A., K. S. Edgett, M. R. Kennedy, G. M. Krezoski, M. J. McBride, M. E. Minitti, M. A. Ravine, R. M. E. Williams (2016) MAHLI on Mars: Lessons learned operating a geoscience camera on a landed payload robotic arm, *Geoscientific Instrumentation, Methods and Data Systems 5*, 205–217. https://doi.org/10.5194/gi-5-205-2016

— end —