

THE 'NEW-CITY' AREA IN CYDONIA MENSAE by Ananda Sirisena

On the 29th October 1979, the Viking 1 Orbiter camera acquired the image shown below. Tagged as Frame 218S03, the letter 'S' indicated it was part of the Survey Mission and an extension of the high resolution mapping sequence. It was also on Frame 227S12.

Careful study of the image in 1990 suggested that there might be pyramidal formations here. Latest images from the Mars Reconnaissance Orbiter (MRO) display a surprising confirmation.

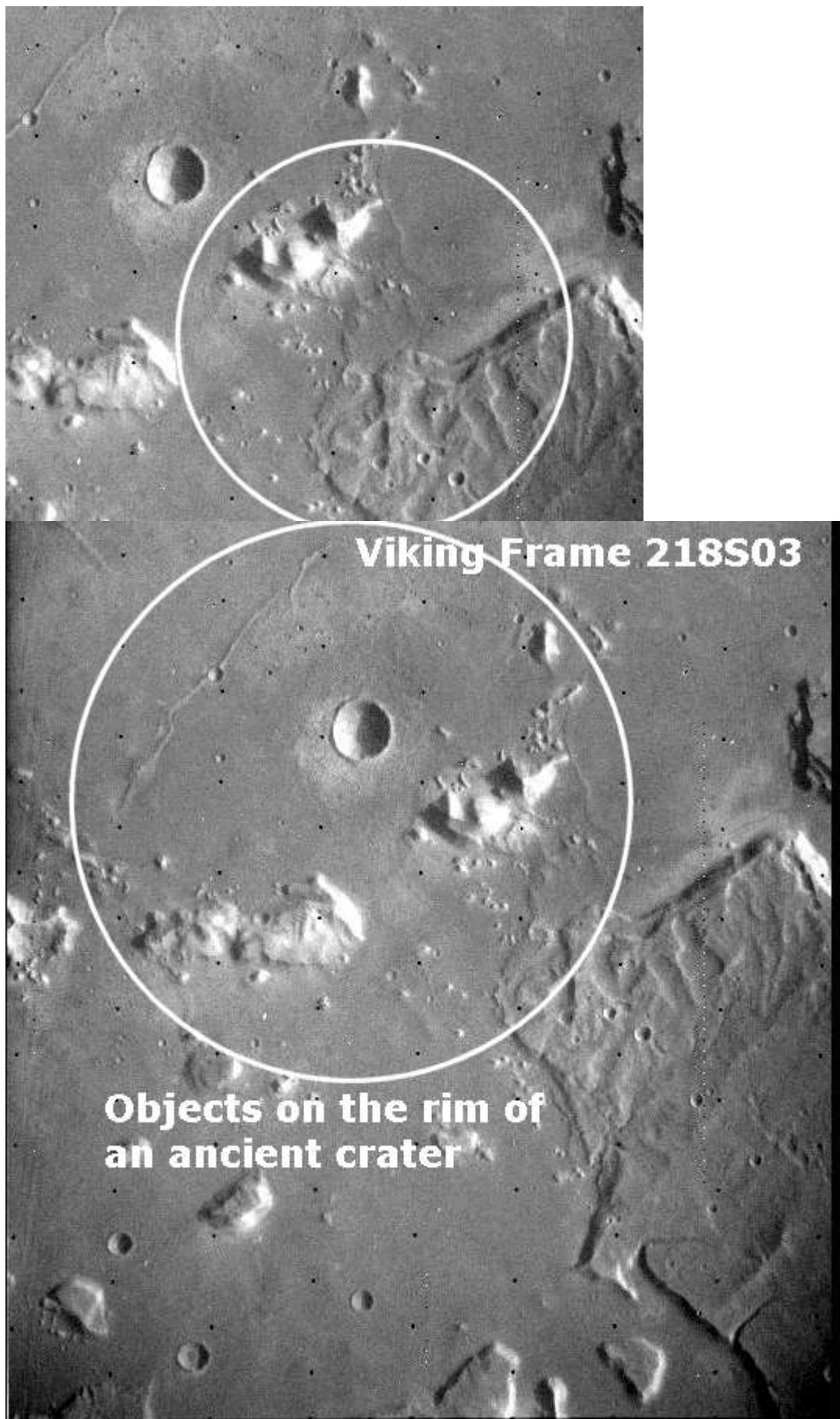
ALL IMAGES COURTESY OF NASA/ASU/JPL/MSSS

Original Viking Frame 218S03



Region of interest circled below:

Frame 218S03 clearly shows "What appears to be pyramidal shadows". It appears that there are several shadows indicative of 3 pyramid shapes.



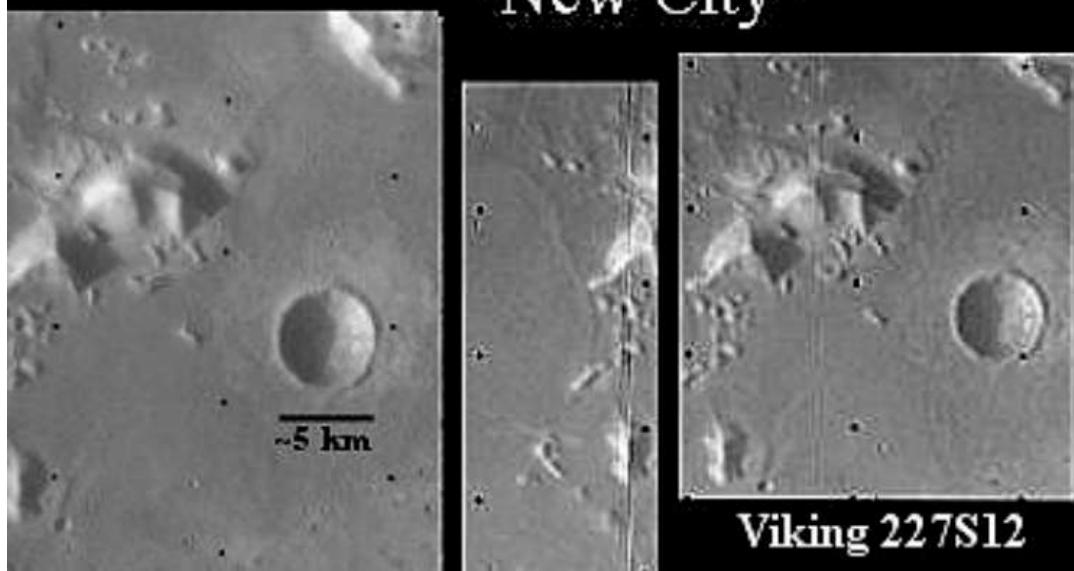
Reported by John P Levasseur on his website many years ago, as shown below, Frame 227S12.

"New City"



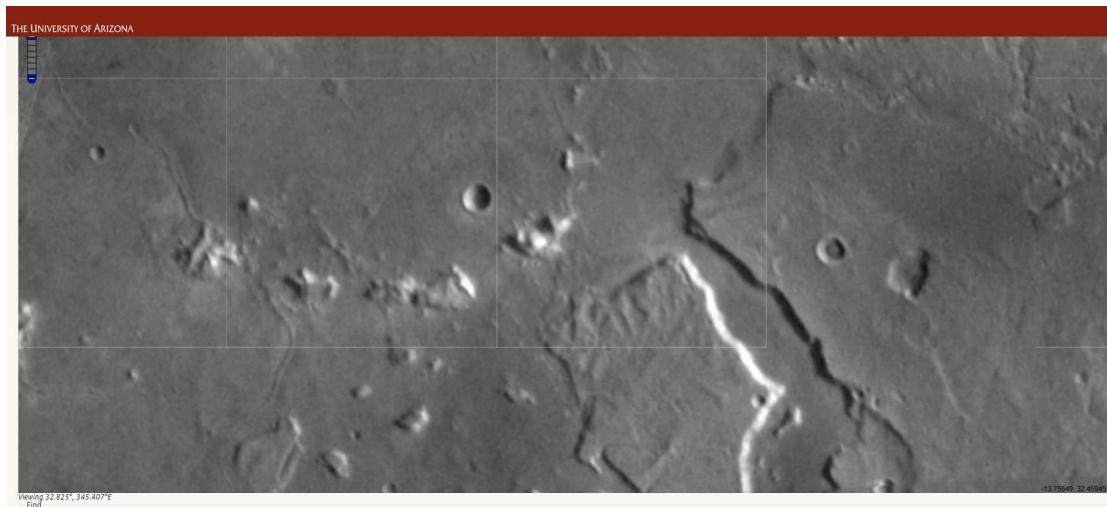
First noted by Ananda Sirisena

"New City"



The context camera on the MRO has re-imaged this area. In the picture below we can see the whole of the outflow channel and the same triangular shadows seen above. The lighting appears to be similar as in the Viking image, insofar as the left bank of the channel is in light.

It is also evident that the objects are on the rim of an eroded, circular crater edge.

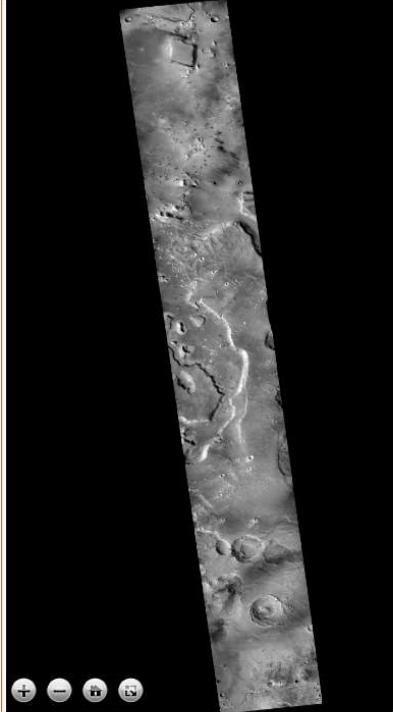


The Context Camera (part of the HiRise captures) shows part of this area, in a long swath.

The Image Data for this picture shows that it was taken on the 14th December 2007 at 05:37:28. Center Latitude 32.3 degrees North and Longitude 345.62 degrees East (14.38 West).

Subsequent enlargements are shown below, one by one.

CTX: P14_006478_2122_XN_32N014W



Context
Base Layer MOLA Shaded Relief (NE)

Image Data
Click on the field name to see the glossary definition for that field.

Name	Value
Image ID	P14_006478_2122_XN_32N014W
Center Lat	32.3°
Center Lon	345.62°
Local Time	14.3
Solar Longitude	2.28°
Scaled Pixel Width	5.75 m
Incidence Angle	45.12°
Emission Angle	0.1°
Orbit	6478
Image Time	2007-12-14T05:37:28.776
Description	Cydonia Mensae
Volume ID	mrox_0323
Instrument Mode ID	NIFL
Image Skew Angle	89.9°
Slant Distance	287.68 km
Phase Angle	45.17°
Solar Distance	233841424 km

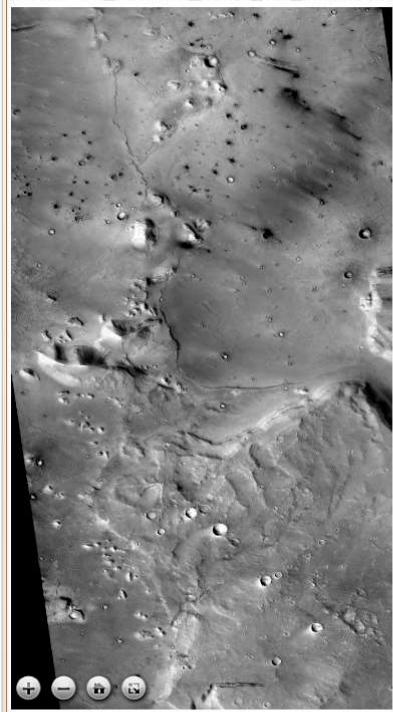
Image Formats
PNG GIF JPEG TIFF PDF

 View this image in context on an interactive map

Full Image Formats
Pyramidized TIFF ISIS Header PDS Source EDR

About MRO Context Camera
MRO is operated by the [Jet Propulsion Laboratory](#).
CTX is operated by [Malin Space Science Systems](#).

CTX: P14_006478_2122_XN_32N014W



Context
Base Layer MOLA Shaded Relief (NE)

Image Data
Click on the field name to see the glossary definition for that field.

Name	Value
Image ID	P14_006478_2122_XN_32N014W
Center Lat	32.3°
Center Lon	345.62°
Local Time	14.3
Solar Longitude	2.28°
Scaled Pixel Width	5.75 m
Incidence Angle	45.12°
Emission Angle	0.1°
Orbit	6478
Image Time	2007-12-14T05:37:28.776
Description	Cydonia Mensae
Volume ID	mrox_0323
Instrument Mode ID	NIFL
Image Skew Angle	89.9°
Slant Distance	287.68 km
Phase Angle	45.17°
Solar Distance	233841424 km

Image Formats
PNG GIF JPEG TIFF PDF

 View this image in context on an interactive map

Full Image Formats
Pyramidized TIFF ISIS Header PDS Source EDR

About MRO Context Camera
MRO is operated by the [Jet Propulsion Laboratory](#).
CTX is operated by [Malin Space Science Systems](#).

CTX: P14_006478_2122_XN_32N014W

Context

Base Layer

MOLA Shaded Relief (NE)

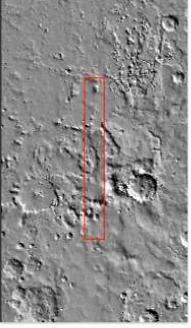


Image Data

Click on the field name to see the glossary definition for that field.

Name	Value
Image ID	P14_006478_2122_XN_32N014W
Center Lat	32.3°
Center Lon	345.62°
Local Time	14.3
Solar Longitude	2.28°
Scaled Pixel Width	5.75 m
Incidence Angle	45.12°
Emission Angle	0.1°
Orbit	6478
Image Time	2007-12-14T05:37:28.776
Description	Cydonia Mensae
Volume ID	mrox_0323
Instrument Mode ID	NIFL
Image Skew Angle	89.9°
Slant Distance	287.68 km
Phase Angle	45.17°
Solar Distance	233841424 km

Image Formats

[PNG](#) [GIF](#) [JPEG](#) [TIFF](#) [PDF](#)

 [View this image in context on an interactive map](#)

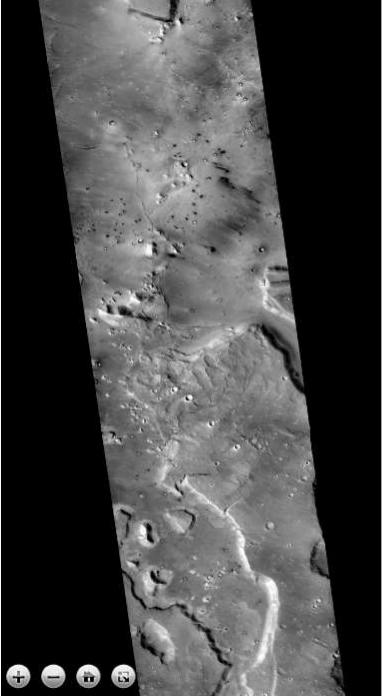
Full Image Formats

[Pyramidized TIFF](#) [ISIS Header](#) [PDS Source EDR](#)

About MRO Context Camera

MRO is operated by the [Jet Propulsion Laboratory](#).
CTX is operated by [Malin Space Science Systems](#).

CTX: P14_006478_2122_XN_32N014W



Context

Base Layer

MOLA Shaded Relief (NE)

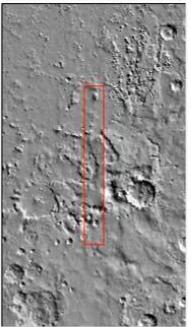


Image Data

Click on the field name to see the glossary definition for that field.

Name	Value
Image ID	P14_006478_2122_XN_32N014W
Center Lat	32.3°
Center Lon	345.62°
Local Time	14.3
Solar Longitude	2.28°
Scaled Pixel Width	5.75 m
Incidence Angle	45.12°
Emission Angle	0.1°
Orbit	6478
Image Time	2007-12-14T05:37:28.776
Description	Cydonia Mensae
Volume ID	mrox_0323
Instrument Mode ID	NIFL
Image Skew Angle	89.9°
Slant Distance	287.68 km
Phase Angle	45.17°
Solar Distance	233841424 km

Image Formats

[PNG](#) [GIF](#) [JPEG](#) [TIFF](#) [PDF](#)

 [View this image in context on an interactive map](#)

Full Image Formats

[Pyramidized TIFF](#) [ISIS Header](#) [PDS Source EDR](#)

About MRO Context Camera

MRO is operated by the [Jet Propulsion Laboratory](#).
CTX is operated by [Malin Space Science Systems](#).

Image Explorer

MARS  SCHOOL OF EARTH
SPACE FLIGHT FACILITY & SPACE EXPLORATION

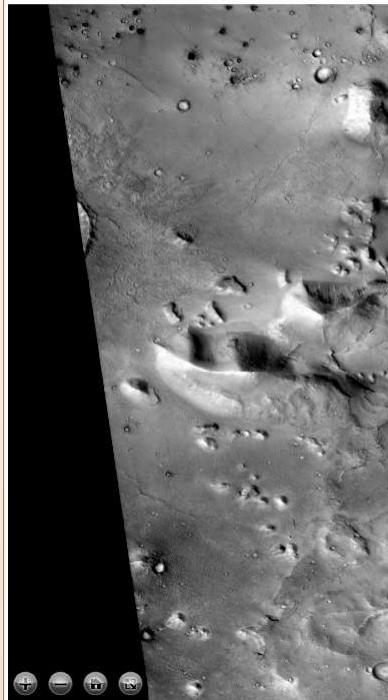
THEMIS MRO Context Camera HIRISE HIRISE Anaglyphs CRISM Mars Express HRSC/SRC Mars Orbiter Camera OMEGA Viking SHARAD MARSIS

FAQ Glossary Themis Documentation Log In/Register

MRO Context Camera

Search CTX Results P14_006478_2122_XN_32N014W

CTX: P14_006478_2122_XN_32N014W



Context

Base Layer

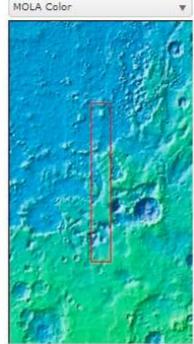


Image Data

Click on the field name to see the glossary definition for that field.

Name	Value
Image ID	P14_006478_2122_XN_32N014W
Center Lat	32.3°
Center Lon	345.62°
Local Time	14.3
Solar Longitude	2.28°
Scaled Pixel Width	5.75 m
Incidence Angle	45.12°
Emission Angle	0.1°
Orbit	6478
Image Time	2007-12-14T05:37:28.776
Description	Cydonia Mensae
Volume ID	mrox_0323
Instrument Mode ID	NIFL
Image Skew Angle	89.9°
Slant Distance	287.68 km
Phase Angle	45.17°
Solar Distance	233841424 km

Image Formats

[PNG](#) [GIF](#) [JPEG](#) [TIFF](#) [PDF](#)

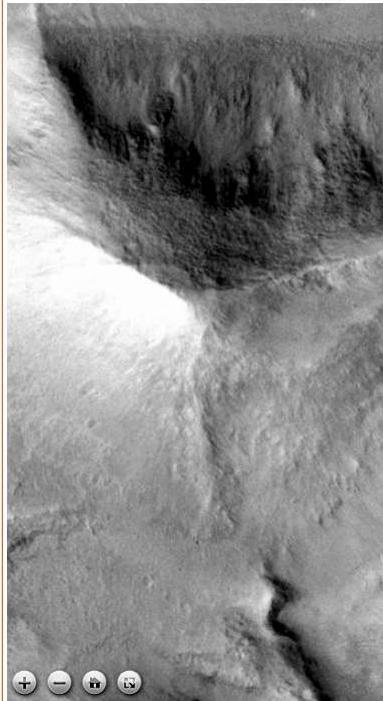


[View this image in context on an interactive map](#)

Full Image Formats

[Pyramized TIFF](#) [ISIS Header](#) [PDS Source EDR](#)

CTX: P14_006478_2122_XN_32N014W



Context

Base Layer

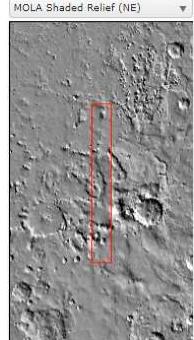


Image Data

Click on the field name to see the glossary definition for that field.

Name	Value
Image ID	P14_006478_2122_XN_32N014W
Center Lat	32.3°
Center Lon	345.62°
Local Time	14.3
Solar Longitude	2.28°
Scaled Pixel Width	5.75 m
Incidence Angle	45.12°
Emission Angle	0.1°
Orbit	6478
Image Time	2007-12-14T05:37:28.776
Description	Cydonia Mensae
Volume ID	mrox_0323
Instrument Mode ID	NIFL
Image Skew Angle	89.9°
Slant Distance	287.68 km
Phase Angle	45.17°
Solar Distance	233841424 km

Image Formats

[PNG](#) [GIF](#) [JPEG](#) [TIFF](#) [PDF](#)



[View this image in context on an interactive map](#)

Full Image Formats

[Pyramized TIFF](#) [ISIS Header](#) [PDS Source EDR](#)

About MRO Context Camera

MRO is operated by the [Jet Propulsion Laboratory](#).

CTX is operated by [Malin Space Science Systems](#).

3-sided pyramid.

Second of the Context Images: P15_006834_2122_XN_32N014W:

Image Explorer

MARS ASU SCHOOL OF EARTH & SPACE EXPLORATION

THEMIS MRO Context Camera HiRISE HiRISE Anaglyphs CRISM Mars Express HRSC/SRC Mars Orbiter Camera OMEGA Viking SHARAD MARSIS

FAQ Glossary Themis Documentation Log In/Register

MRO Context Camera

Search CTX Results P15_006834_2122_XN_32N014W

CTX: P15_006834_2122_XN_32N014W

Context

Base Layer MOLA Color

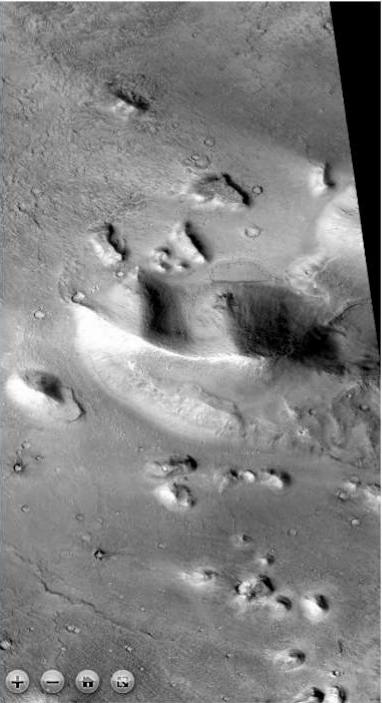


Image Data

Click on the field name to see the glossary definition for that field.

Name	Value
Image ID	P15_006834_2122_XN_32N014W
Center Lat	32.24°
Center Lon	345.3°
Local Time	14.45
Solar Longitude	15.75°
Scaled Pixel Width	5.79 m
Incidence Angle	42.7°
Emission Angle	1.08°
Orbit	6834
Image Time	2008-01-10T23:27:33.724
Description	Cydonia Mensae region
Volume ID	mrox_0369
Instrument Mode ID	NIFL
Image Skew Angle	89.9°
Slant Distance	290.91 km
Phase Angle	43.74°
Solar Distance	238619296 km

Image Formats

[PNG](#) [GIF](#) [JPEG](#) [TIFF](#) [PDF](#)

 View this image in context on an interactive map

Full Image Formats

[Pyramidized TIFF](#) [ISIS Header](#) [PDS Source EDR](#)

What are causative mechanisms for the creation of 3-sided pyramids?