Valles Marineris is divided into MTM –20012 and –25012 quadrangles (lat 17.5°–27.5° S., long 347°–350° E.) is outlined in drainage systems occurs at the Margaritifer basin near a possible Amazonian-aged volcano. The map area basin toward a more regional base level downstream and an overall tributaries likely incised as the trunk valley downcut in (347°). The deeply incised stem valley in SCALE 1:1 000 000 (1 mm = 1.004 km) AT 350

Figure 8. Subframe of global Thermal Emission Imaging System

Subframe of global Thermal Emission Imaging System

Erythraeum Chaos. Deposits incise and bury older fan deposits (unit c3)

Erythraeum Chaos. Deposits incise and bury older fan deposits (unit c3)

Enlarged image showing stripped, scabby, knobby material

The uncertainty associated with relative ages for counts within the map area is

Images showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles,

The trough near top of image (~140 m deep through fractures in the material resulted in

stripped and exhibit narrow, crisscrossing

Figure 9. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars (~230 m/pixel

Subframe of THEMIS VIS and MOC images released June 2007.

Figure 10. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

Type locality

THEMIS VIS and MOC images released June 2007.

Figure 11. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

Dissected unit of the plateau sequence (Early to Middle Noachian)

Dissected unit of the plateau sequence (Early to Middle Noachian)

the main branch of Loire Valles and associated tributaries

Figure 12. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

Crenulated morphology

Valley floors exhibit uneven accumulations of eolian drift and dunes. Small valleys likely formed by

interpretation

and associated alluvium consisting of relatively coarse alluvium and (or) partially lithified material

Enlarged image showing stripped, scabby, knobby material

Figure 13. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

Simple cylindrical projection. North towards top of image.

Figure 14. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

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ANb

ANb

Erythraeum Chaos. Deposits incise and bury older fan deposits (unit c3)

Enlarged image showing stripped, scabby, knobby material

Figure 15. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

Simple cylindrical projection. North towards top of image.

Figure 16. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

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ANb

ANb

Erythraeum Chaos. Deposits incise and bury older fan deposits (unit c3)

Enlarged image showing stripped, scabby, knobby material

Figure 17. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

Simple cylindrical projection. North towards top of image.

Figure 18. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

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ANb

ANb

Erythraeum Chaos. Deposits incise and bury older fan deposits (unit c3)

Enlarged image showing stripped, scabby, knobby material

Figure 19. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

Simple cylindrical projection. North towards top of image.

Figure 20. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

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ANb

ANb

Erythraeum Chaos. Deposits incise and bury older fan deposits (unit c3)

Enlarged image showing stripped, scabby, knobby material

Figure 21. Image showing detail of Paraná Valles in MTM –20012 and –25012 quadrangles, Mars. Unit ANb

Simple cylindrical projection. North towards top of image.