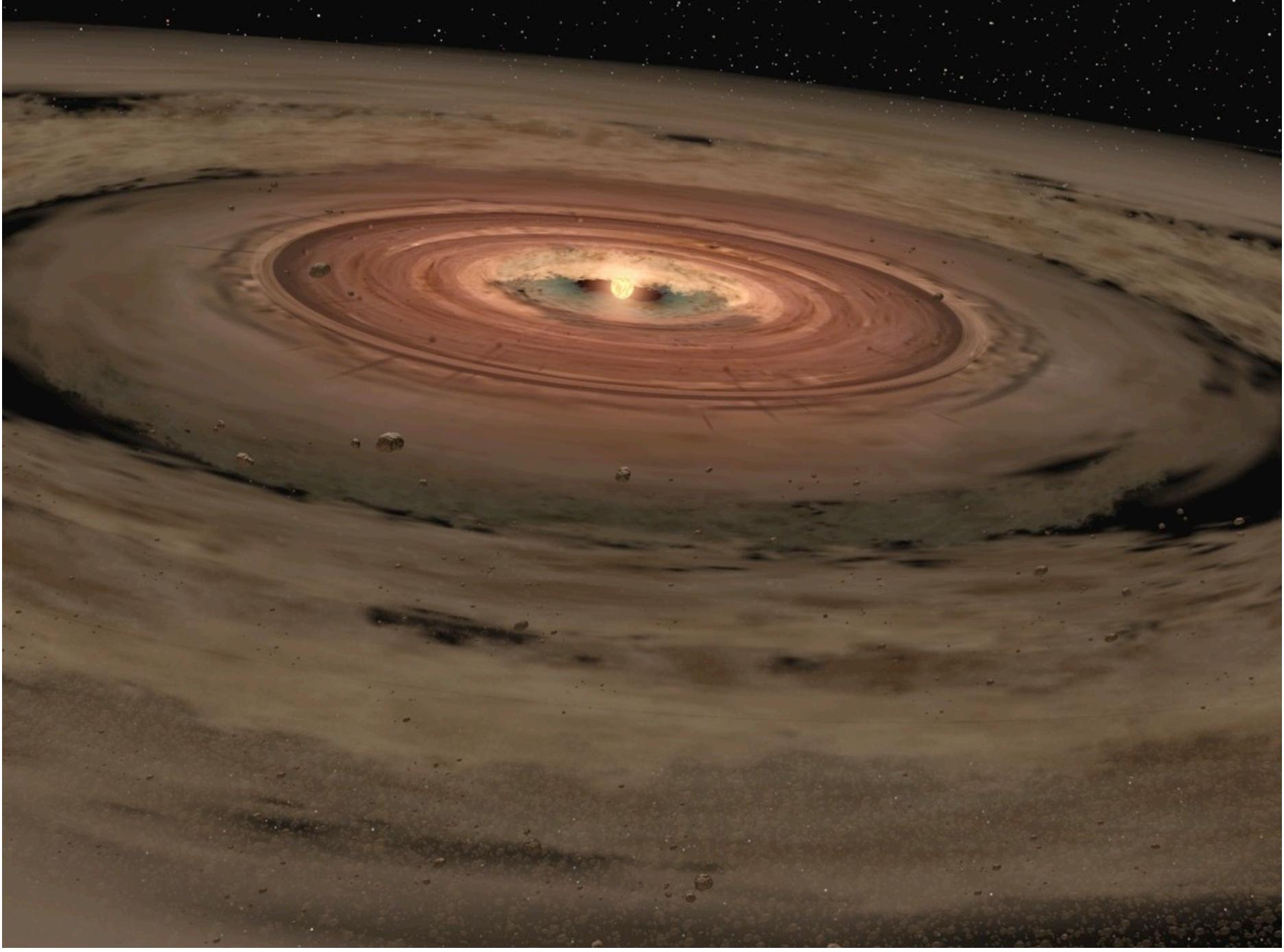


Comparative Planetology

12.001 – 4 December 2013



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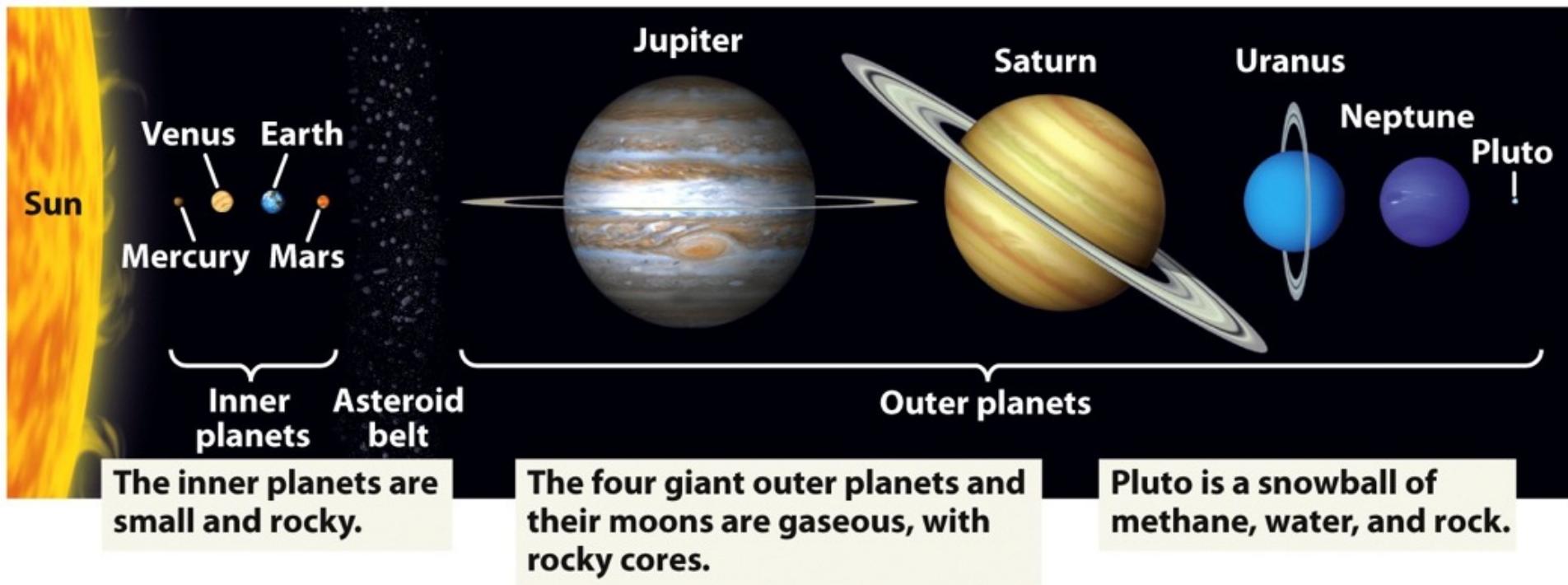
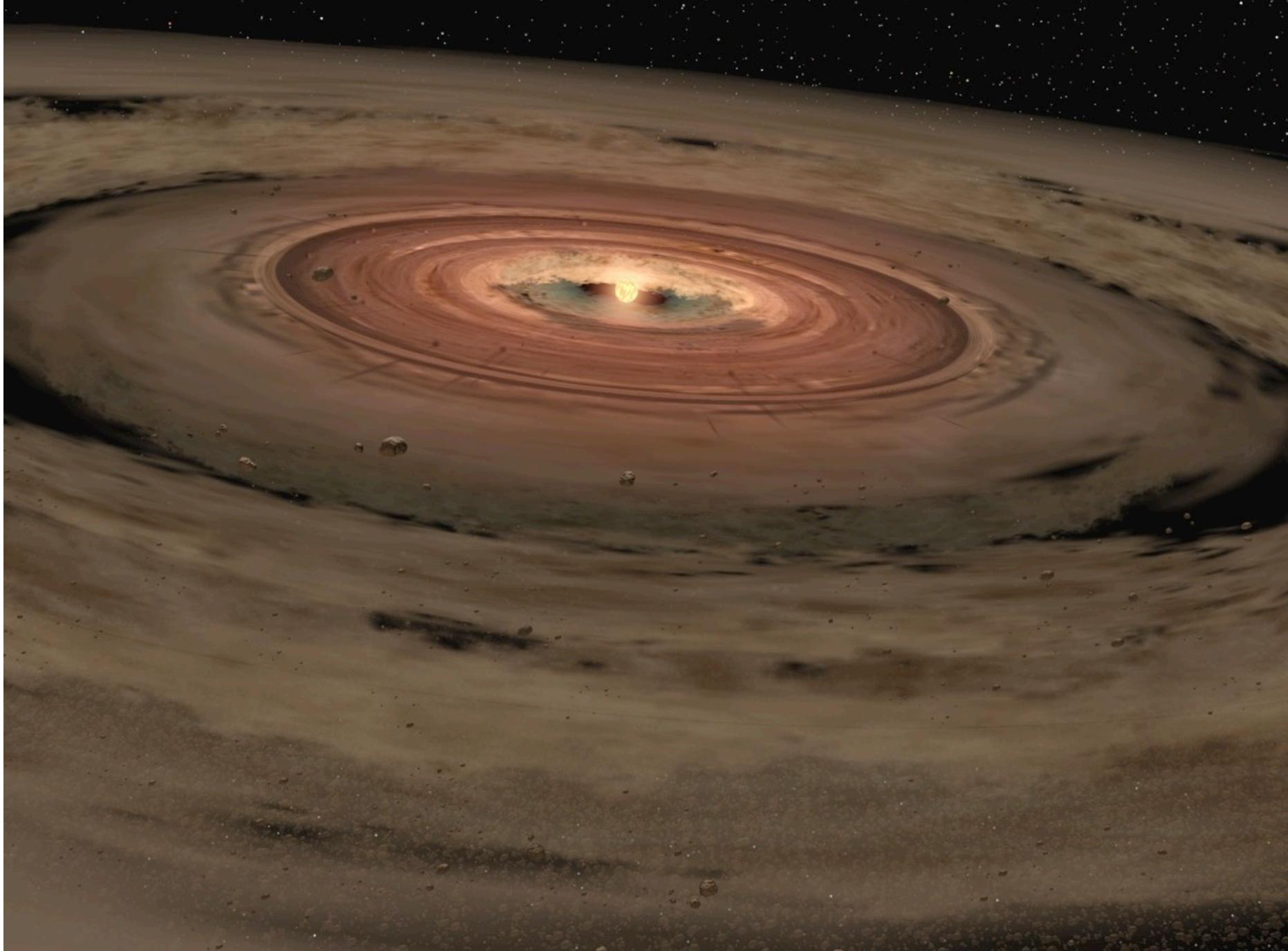
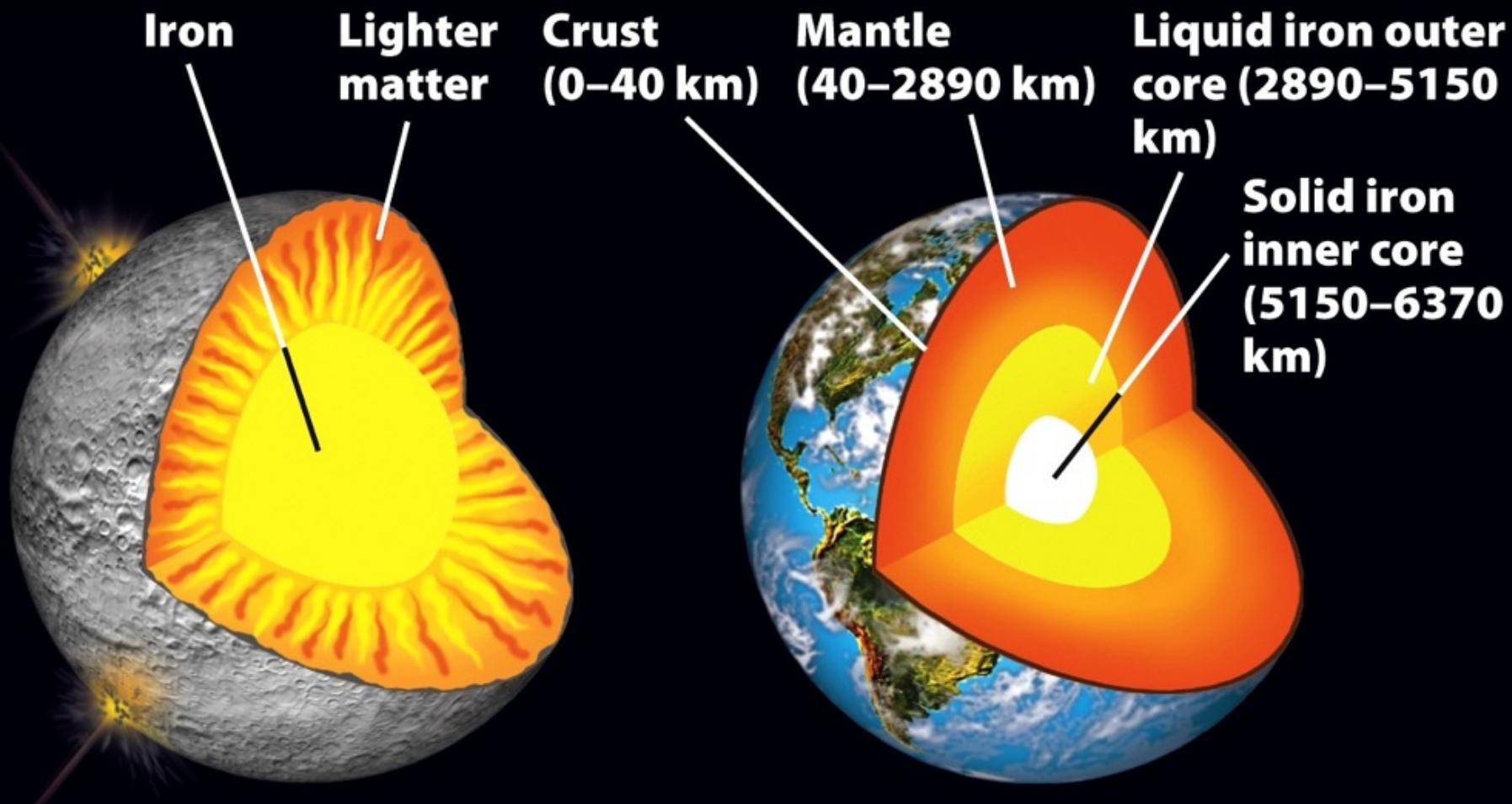


Figure 9.3
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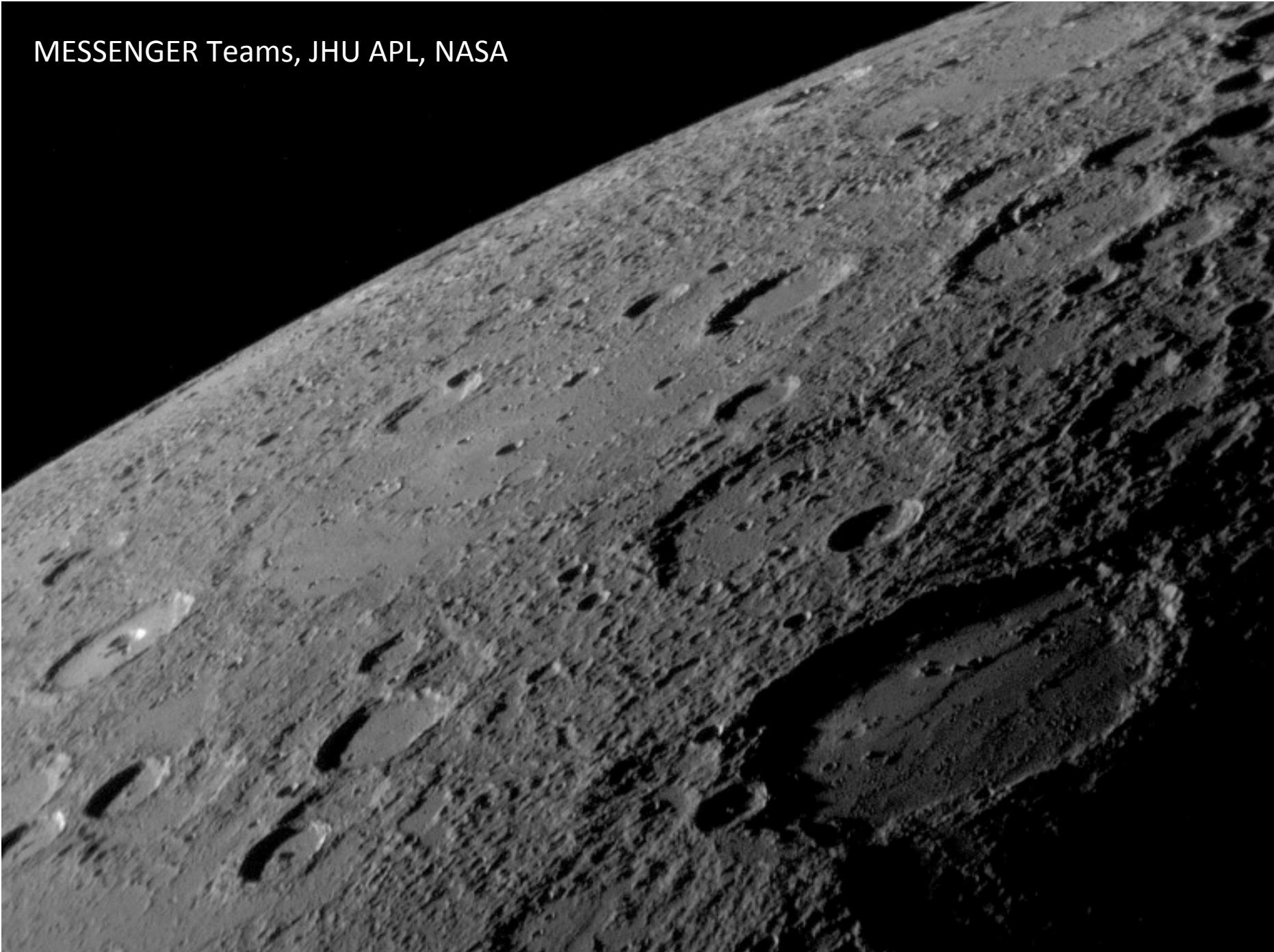
Courtesy of [NASA](#). Image in the public domain.



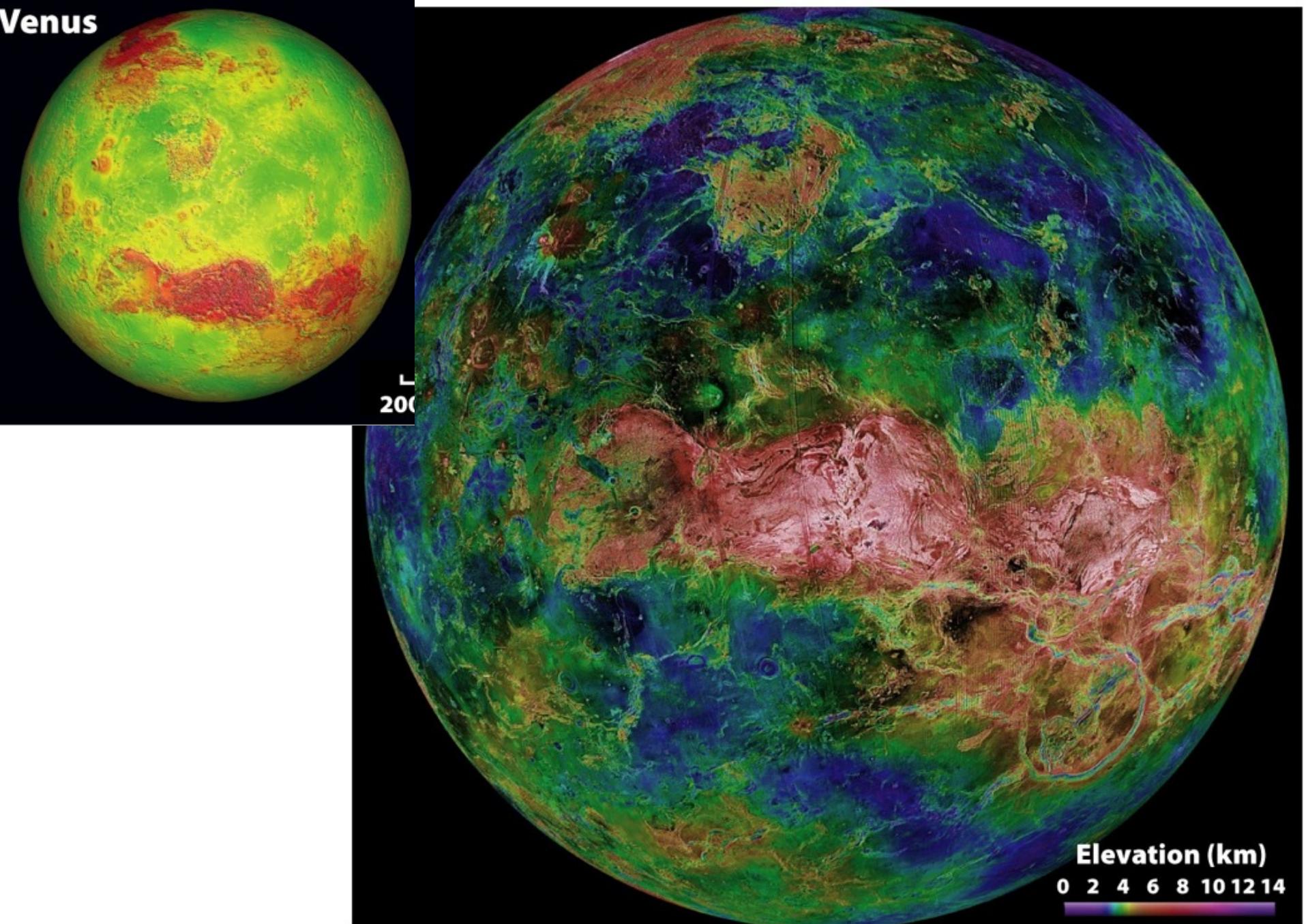
**During gravitational differentiation,
iron sank to the center and lighter
material floated upward...**

**...to give us Earth as a
layered planet.**

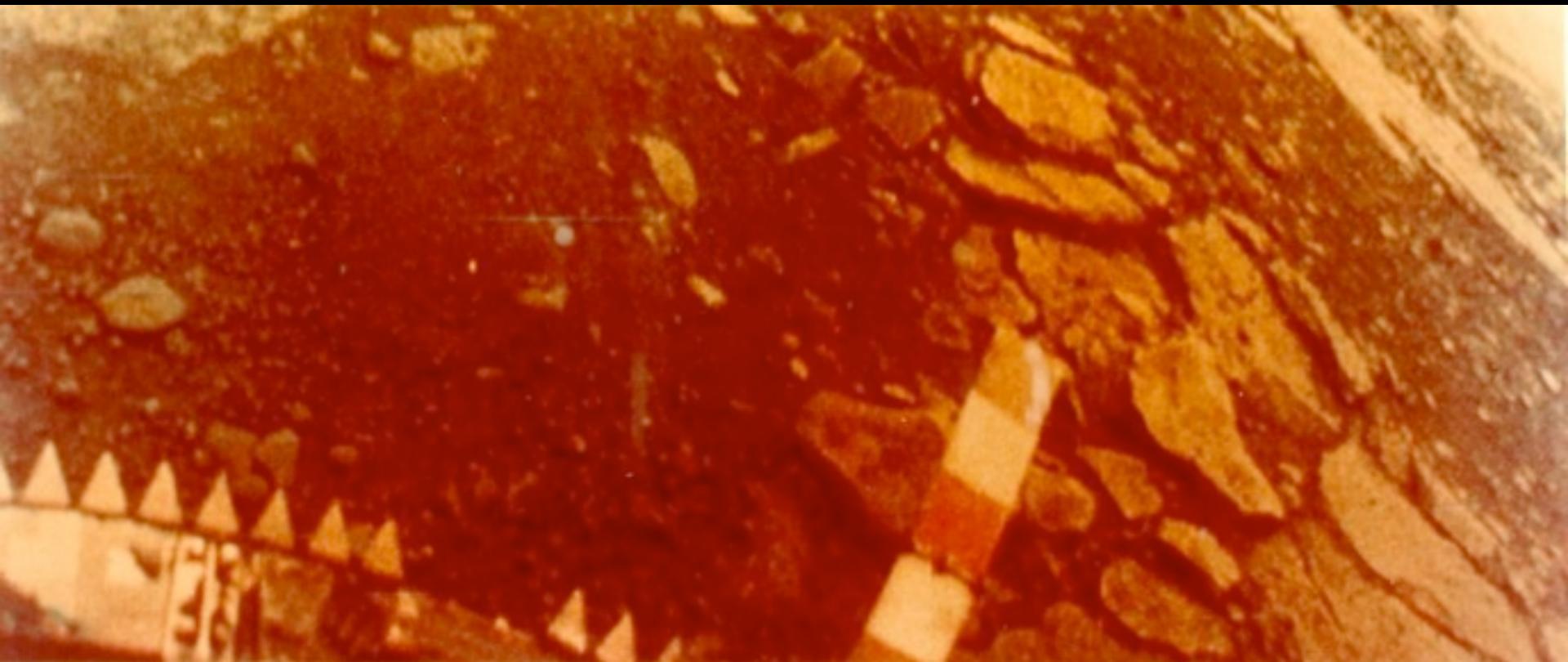
MESSENGER Teams, JHU APL, NASA



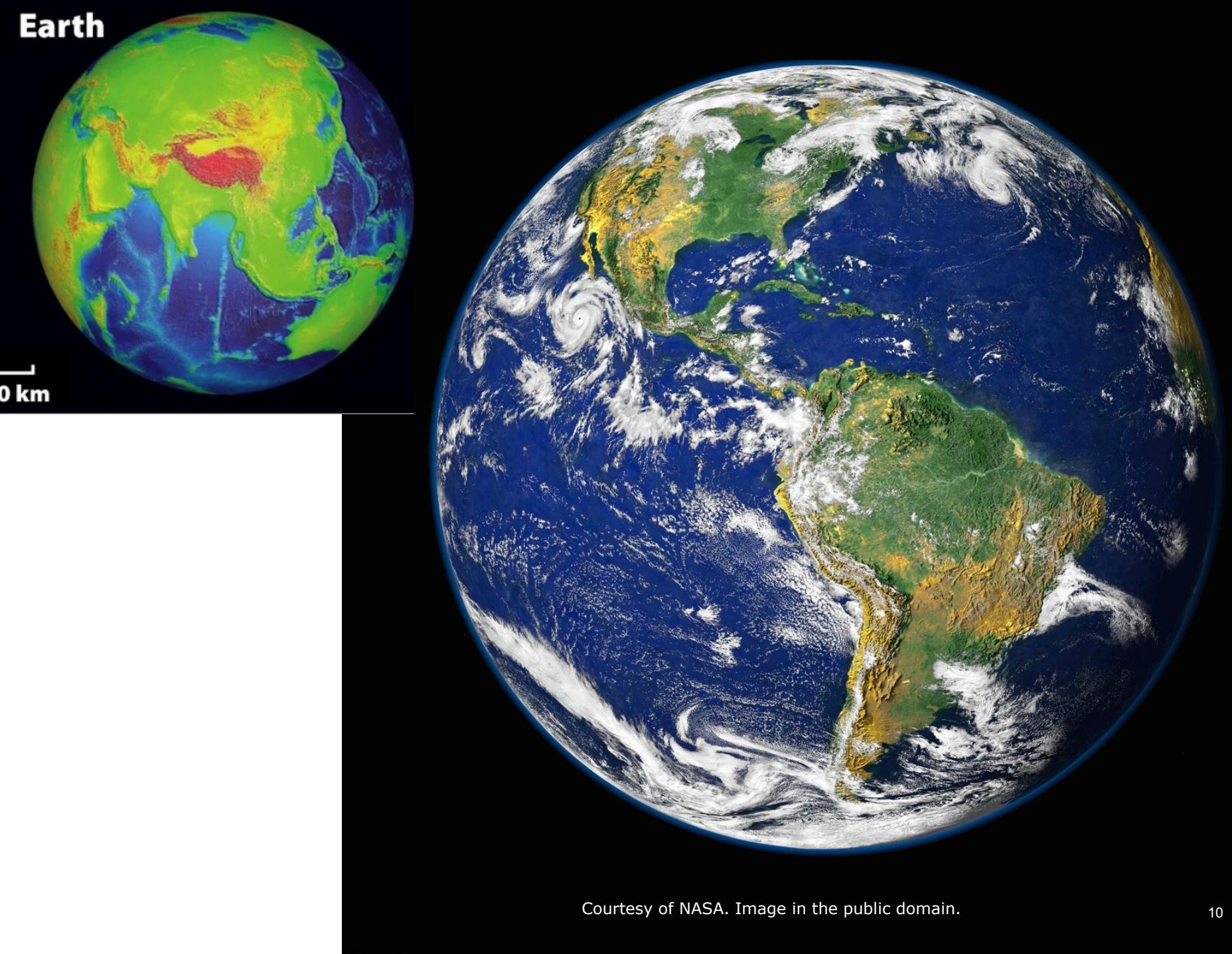
Venus



Courtesy of [NASA](#). Images in the public domain.

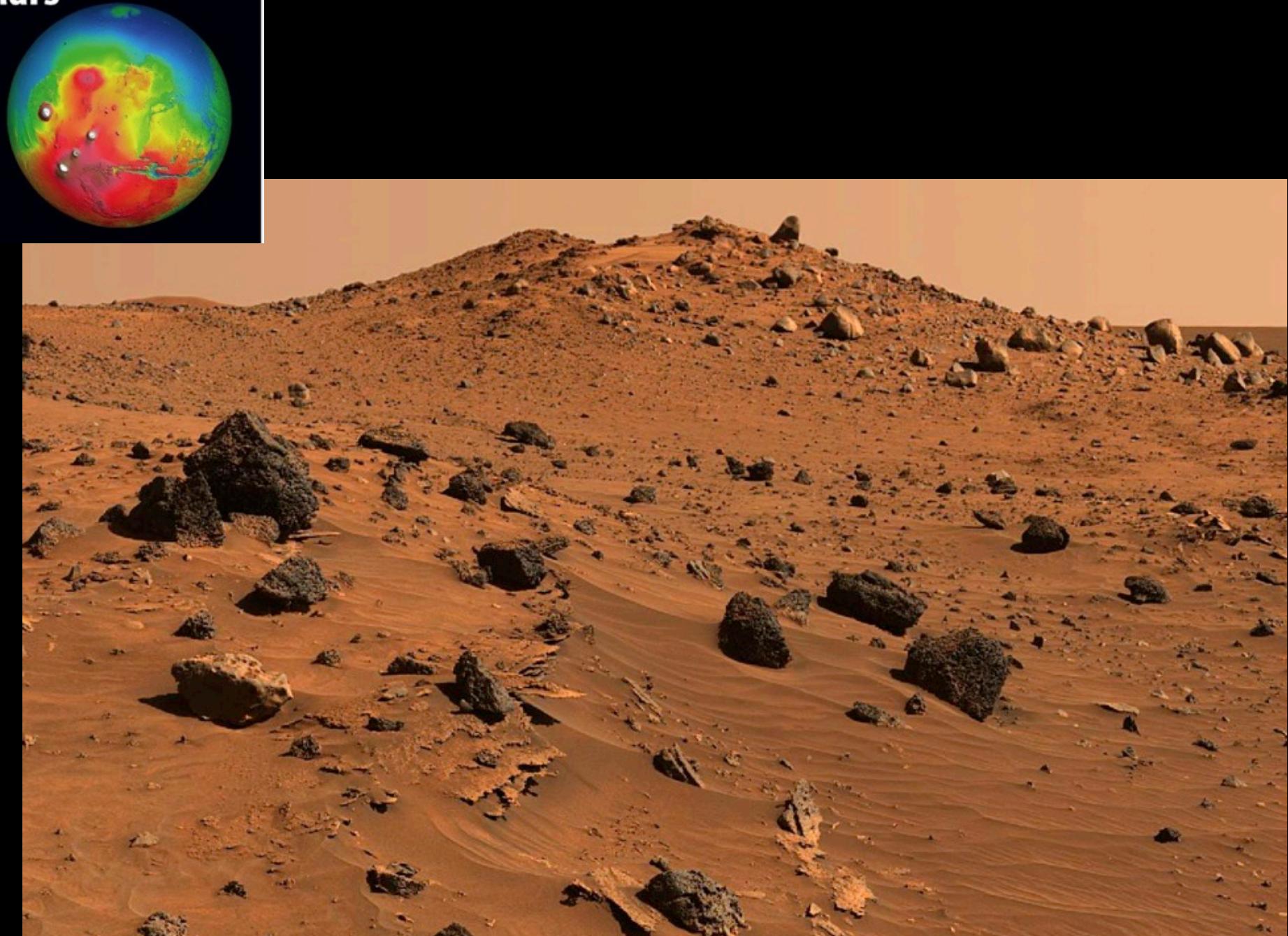


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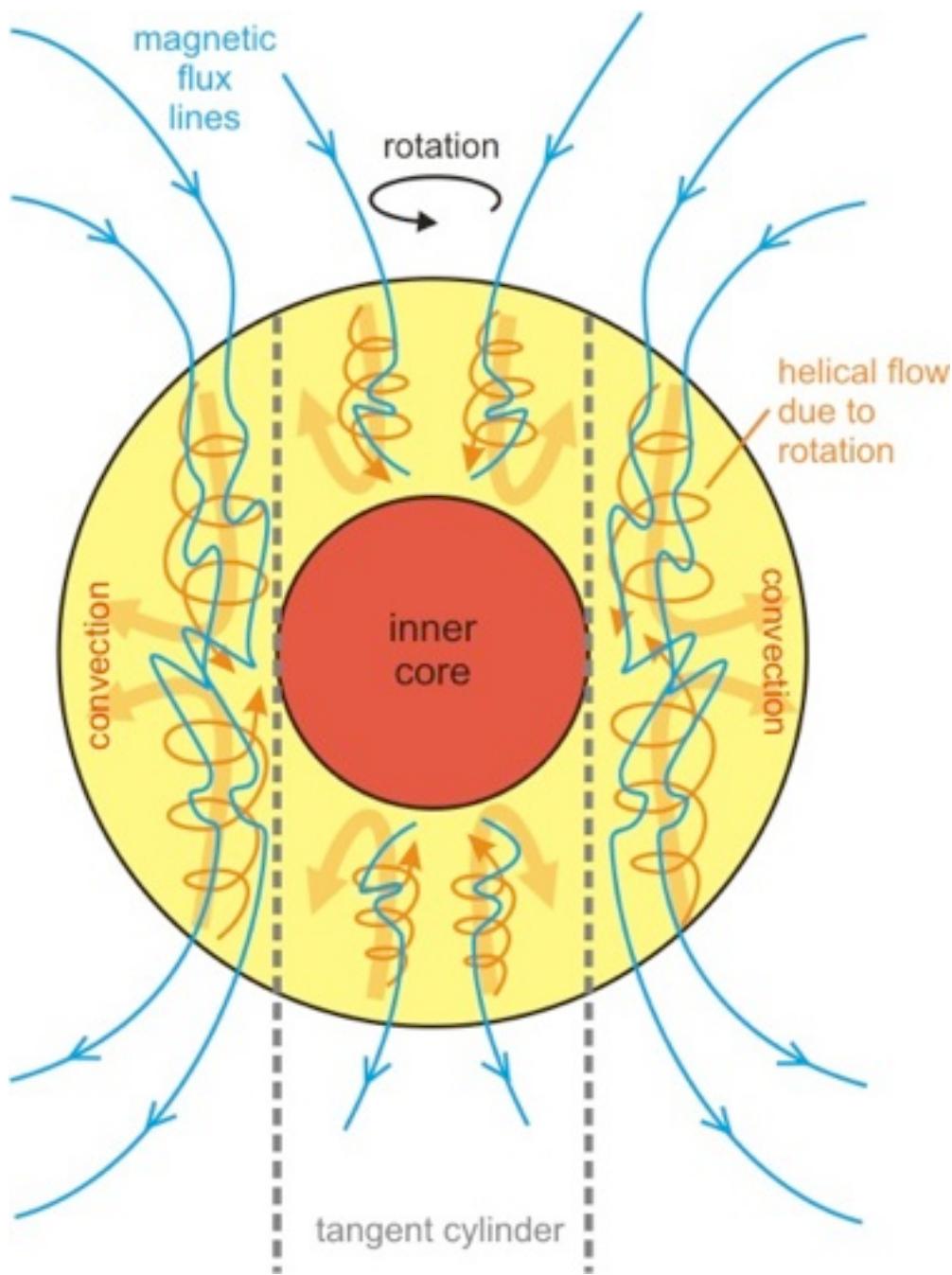


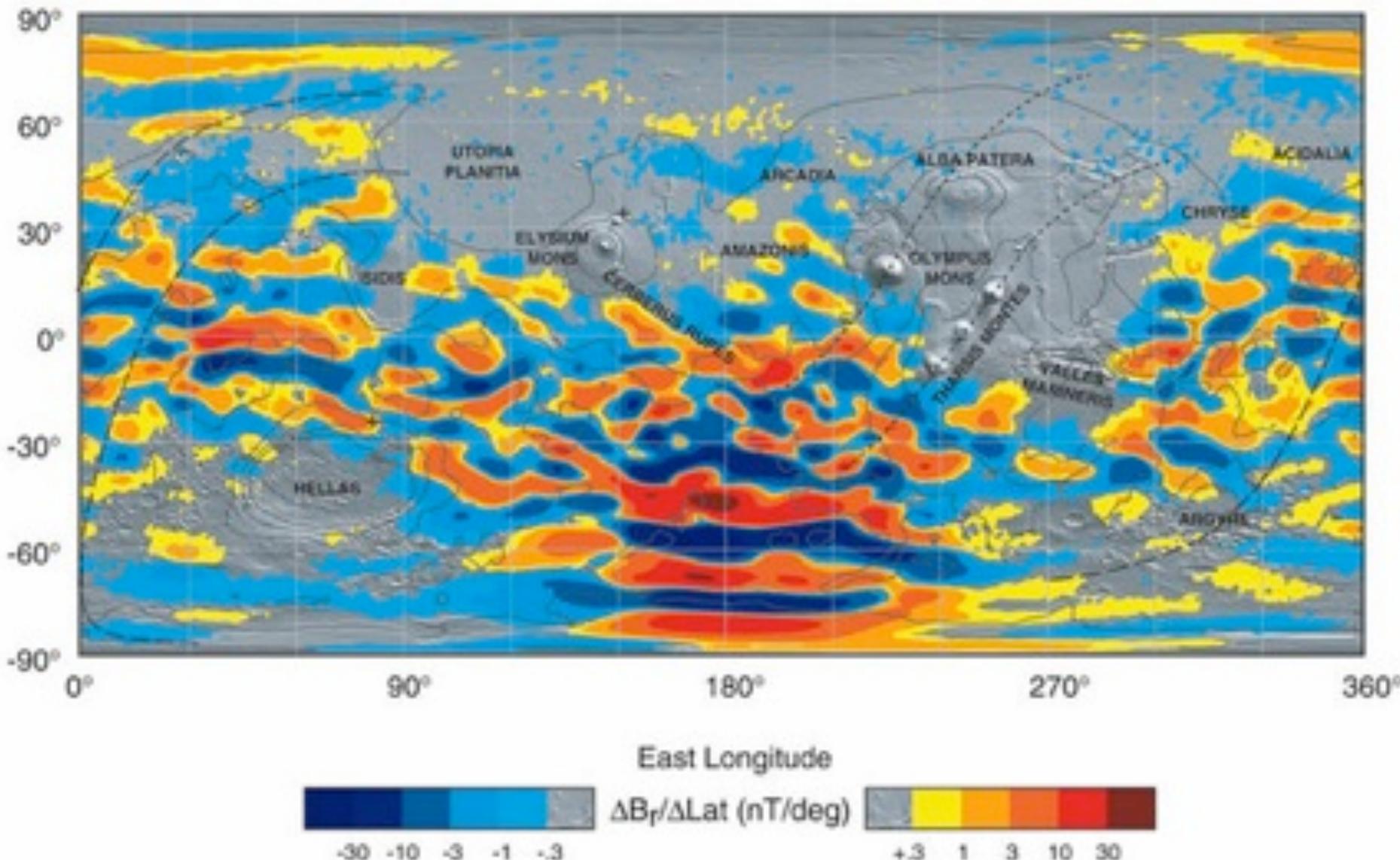
Courtesy of NASA. Image in the public domain.

Mars



Photograph courtesy of NASA. Image in the public domain.



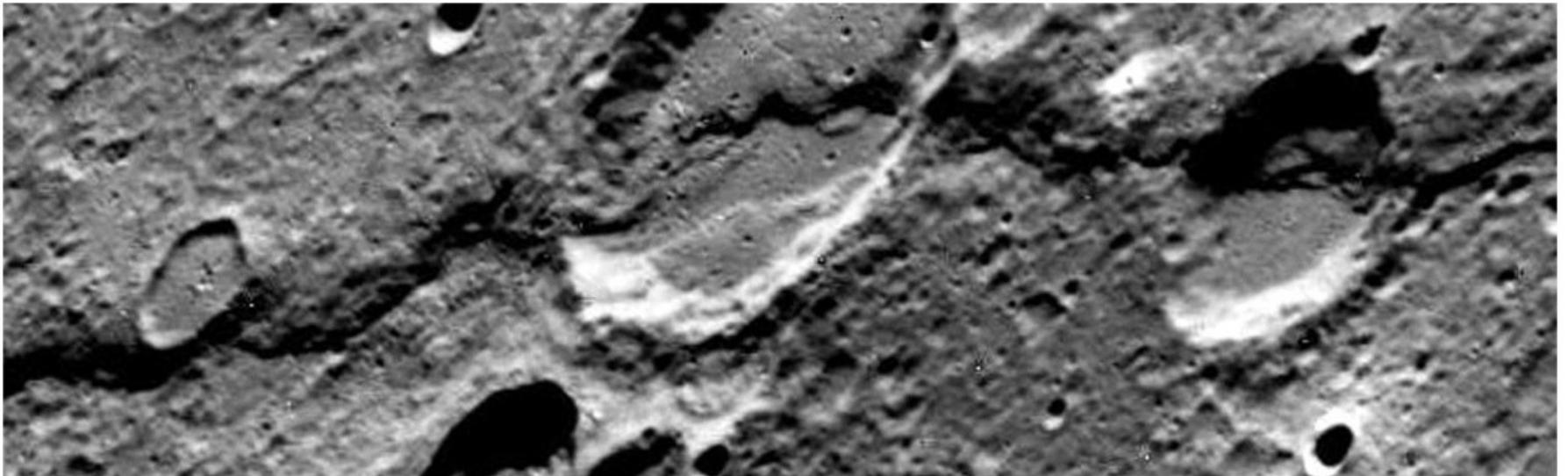


Connerney, J. E. P. et al., (2005) Proc. Natl. Acad. Sci. USA, 102, No. 42, 14970-14975.

M1900_1.pdf

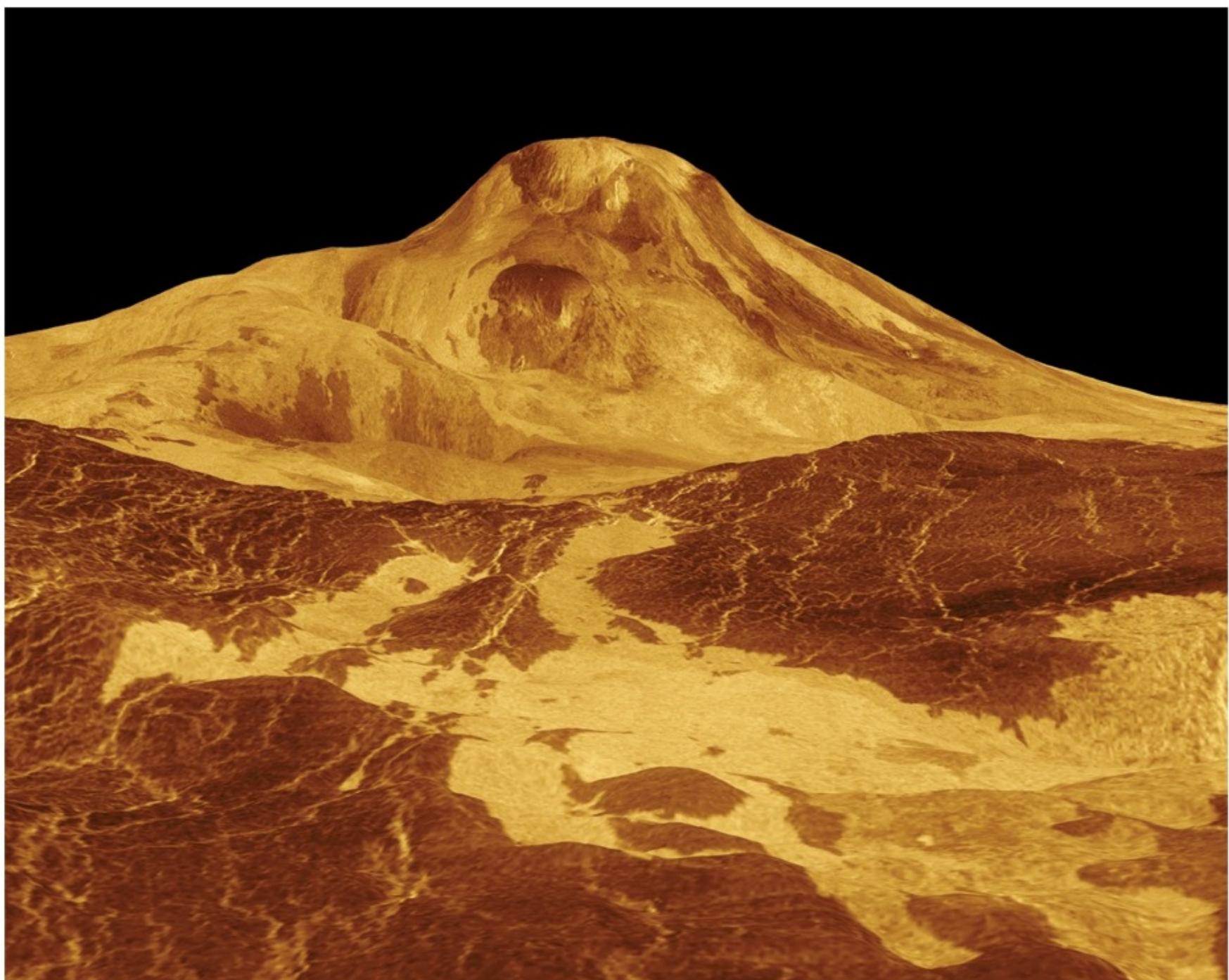
Courtesy of NASA. Figure in the public domain.

Source: Connerney, J. E. P., M. H. Acuña, et al. "Tectonic Implications of Mars Crustal Magnetism." *Proceedings of the National Academy of Sciences of the United States of America* 102, no. 42 (2005): 14970-75.

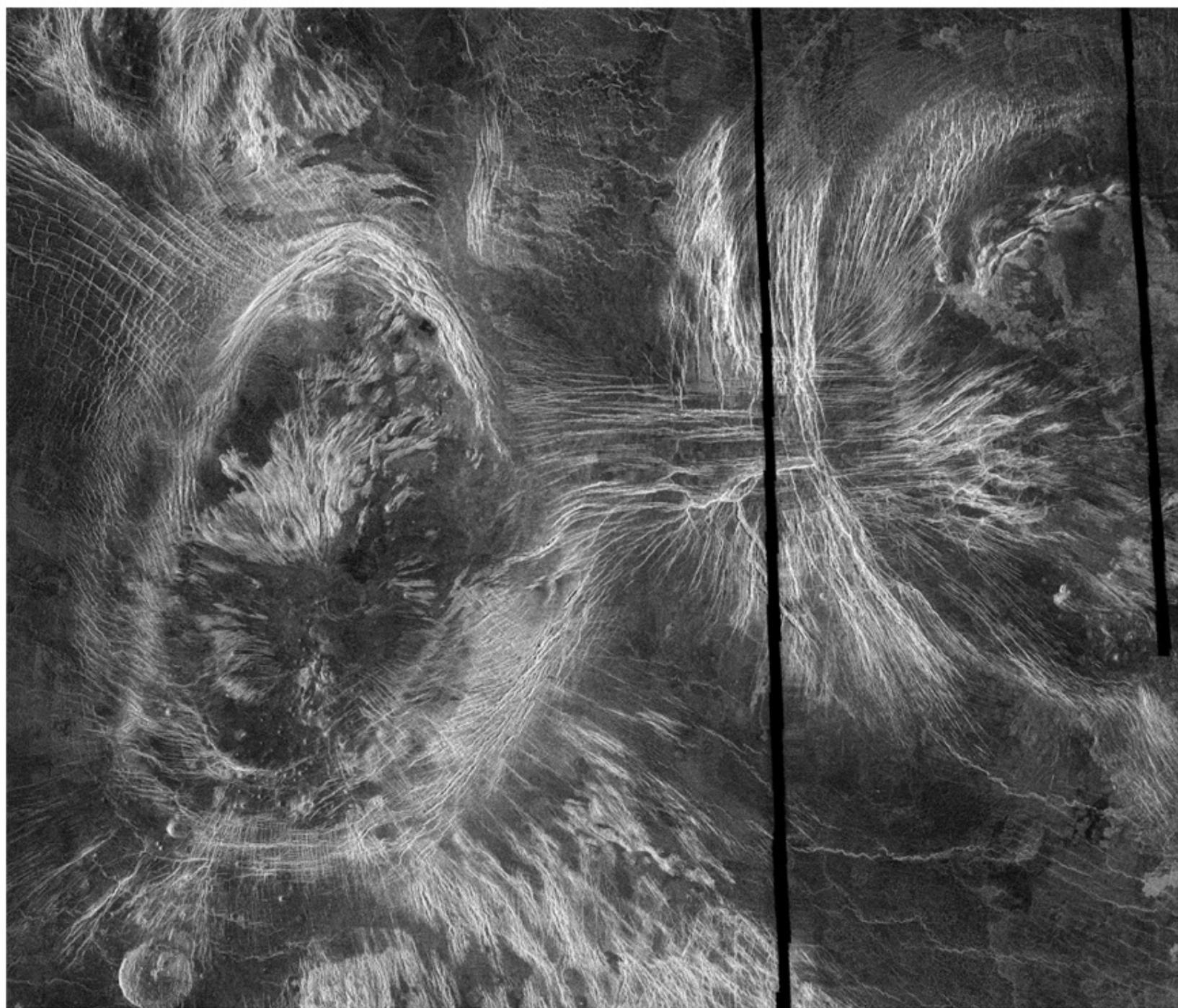


Courtesy of NASA. Image in the public domain.

Fault scarp produced by cooling and contraction of Mercury

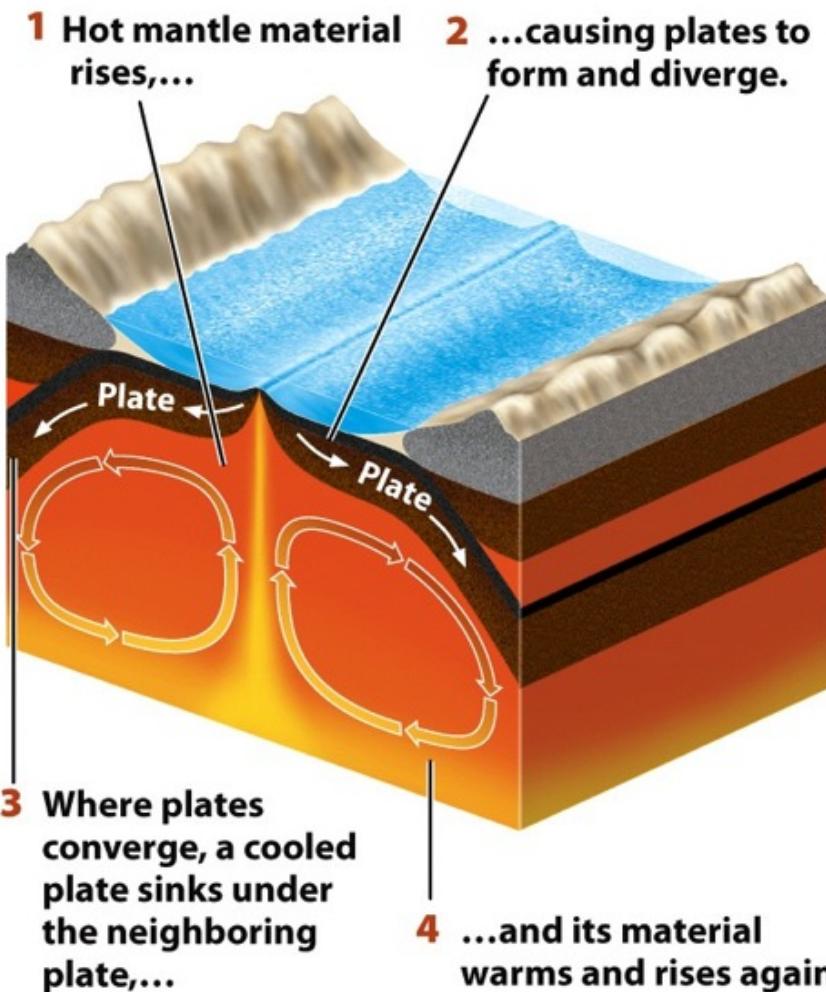


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Courtesy of NASA. Images in the public domain.

(a) Plate tectonics on Earth



(b) Flake tectonics on Venus

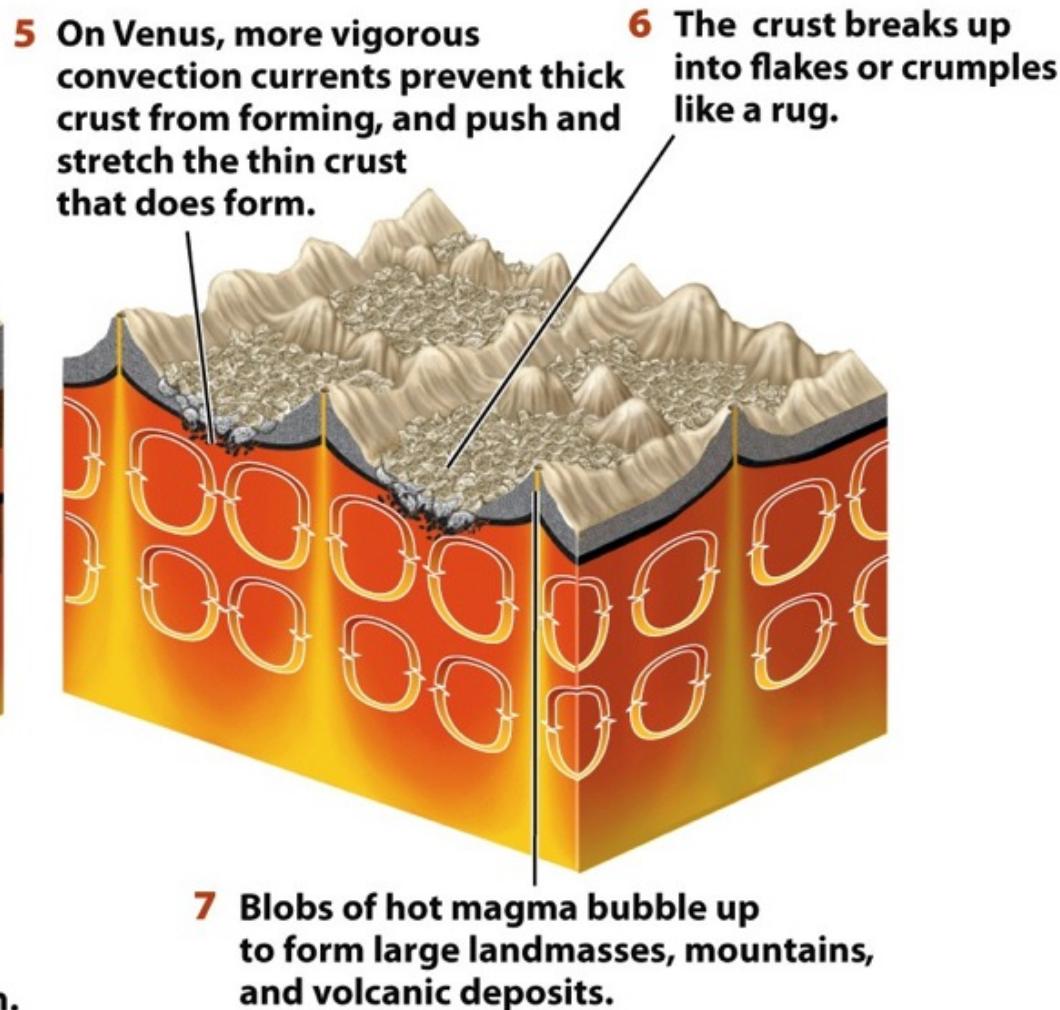
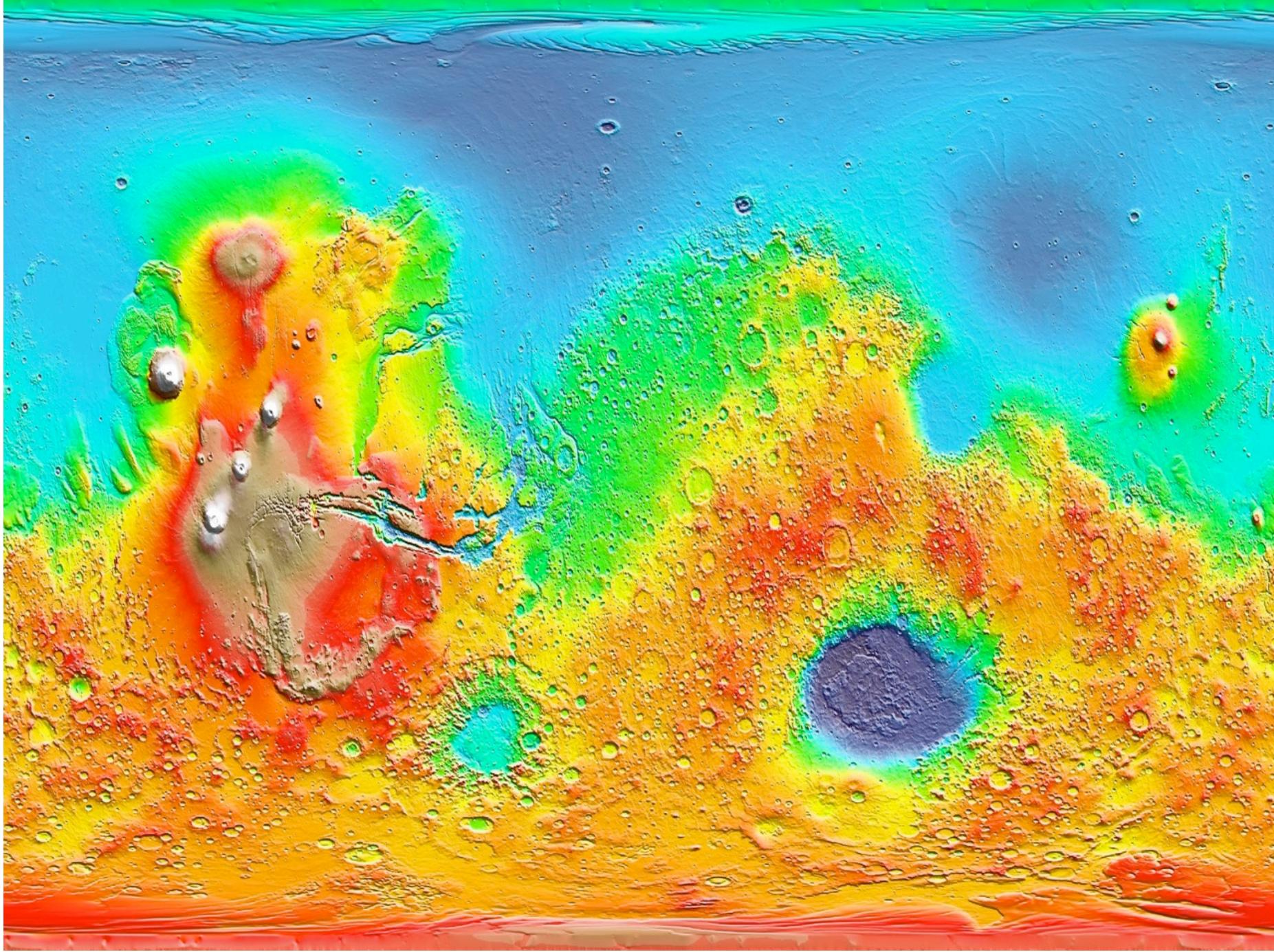


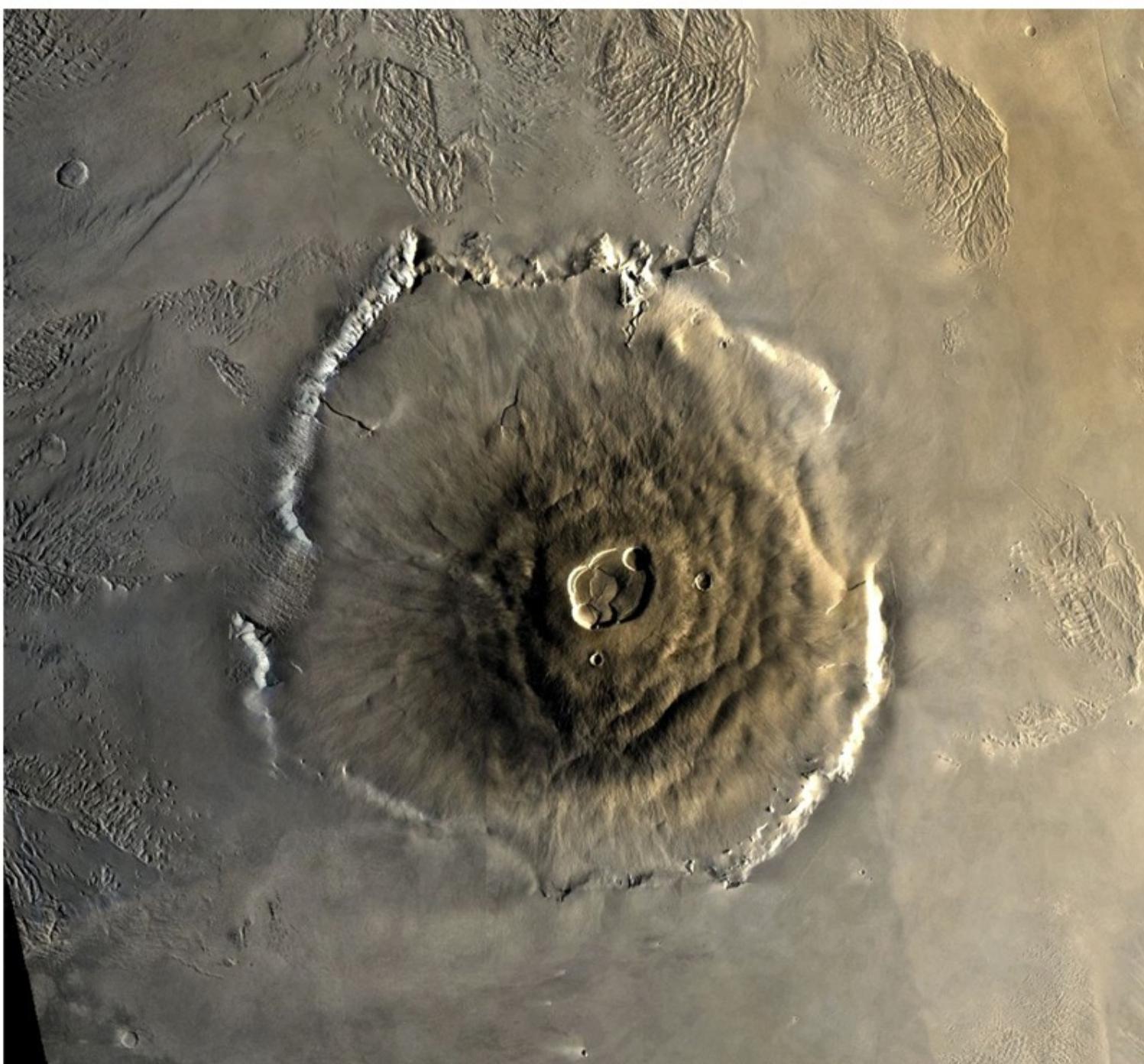
Figure 9.16

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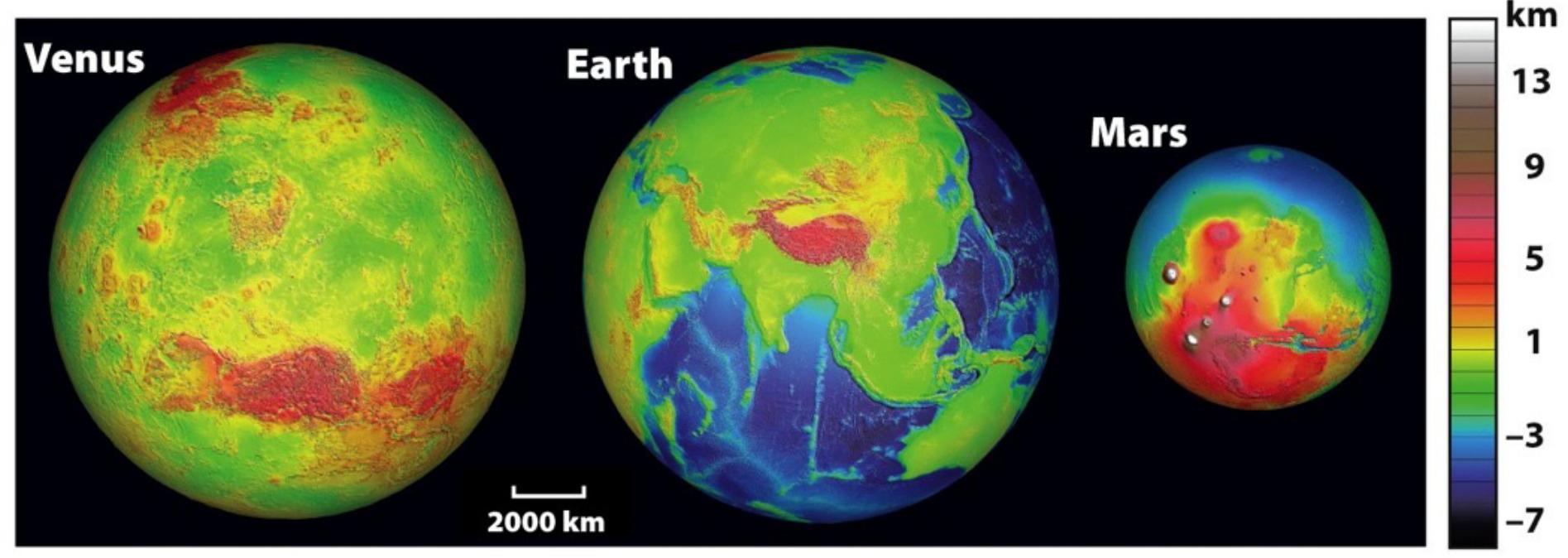
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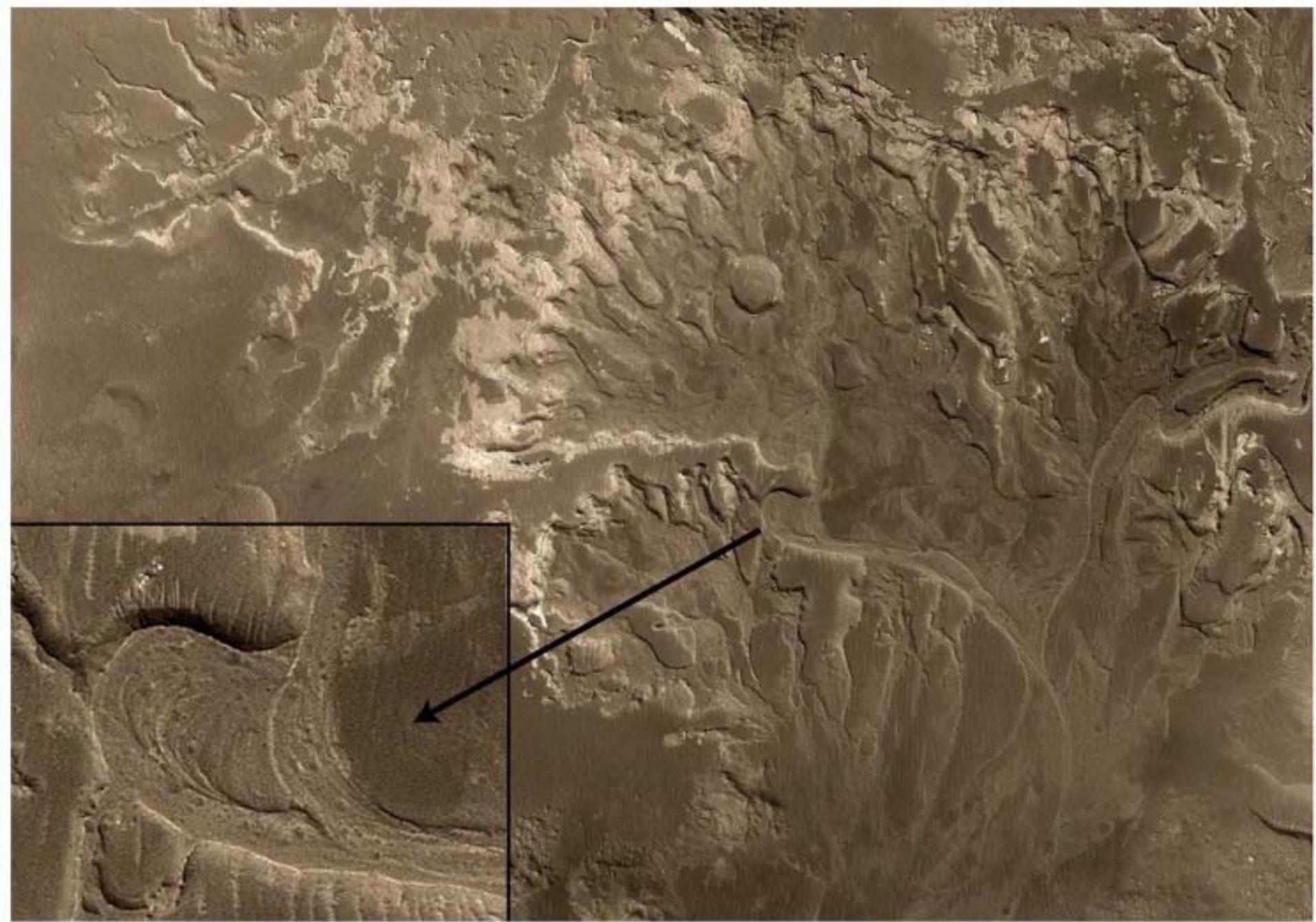


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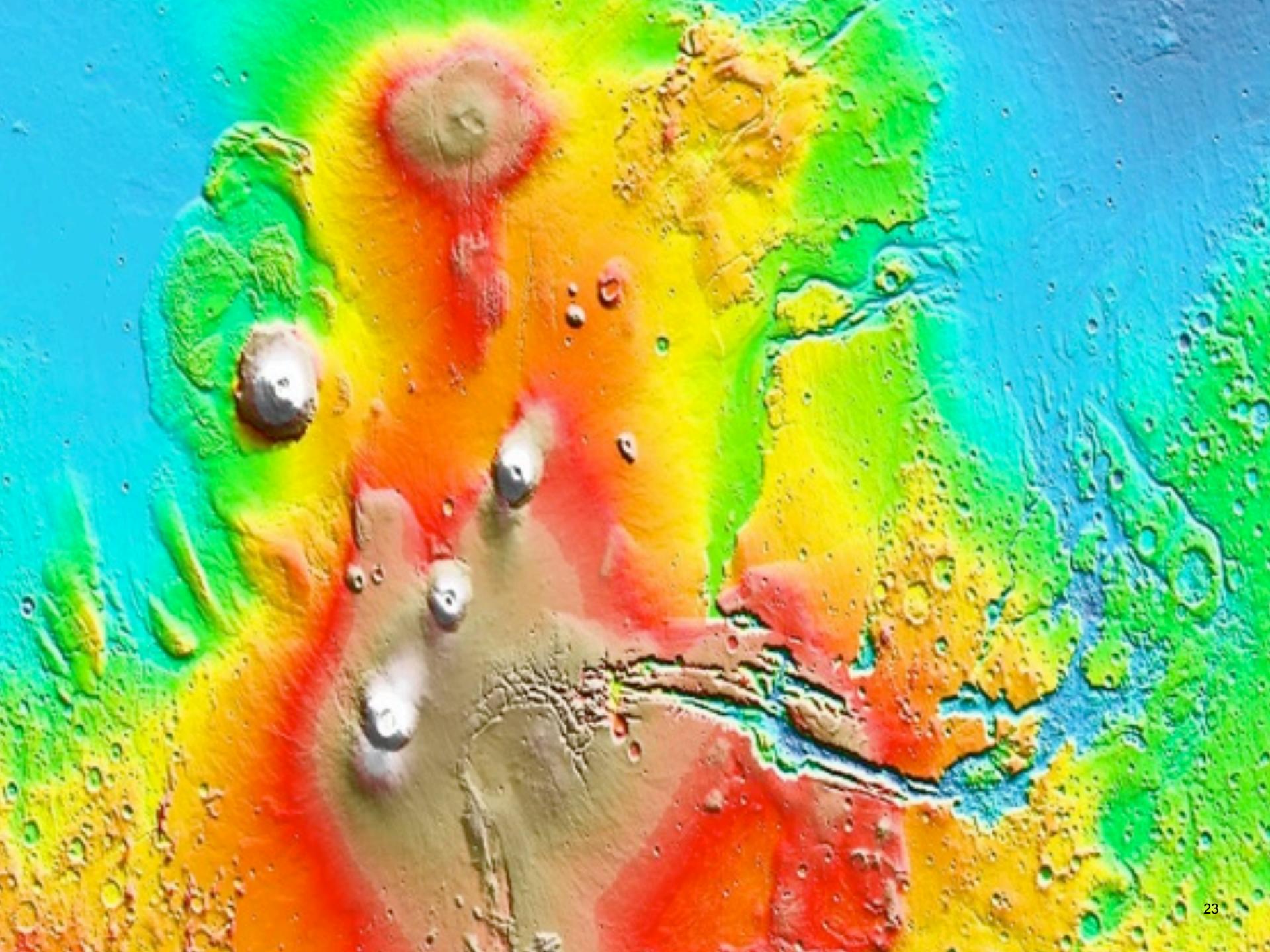


25 km





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Hubble Ultra Deep Field
HST WFC3 IR



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12.001 Introduction to Geology

Fall 2013

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