

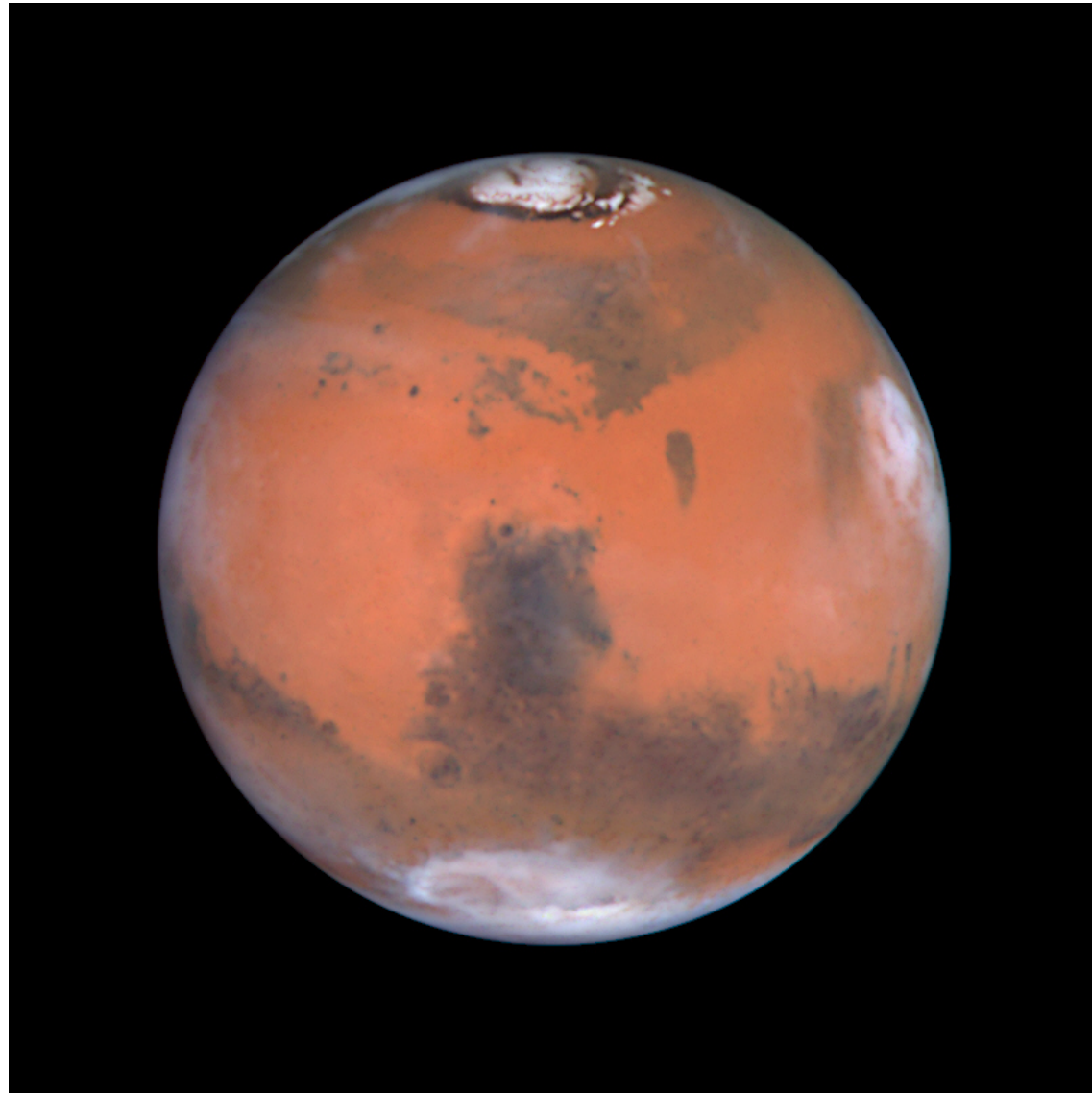
Exploring Mars With *Mars Express*

A Career Day Presentation at Raba Elementary School
San Antonio, Texas

Dr. James Sharber
Southwest Research Institute

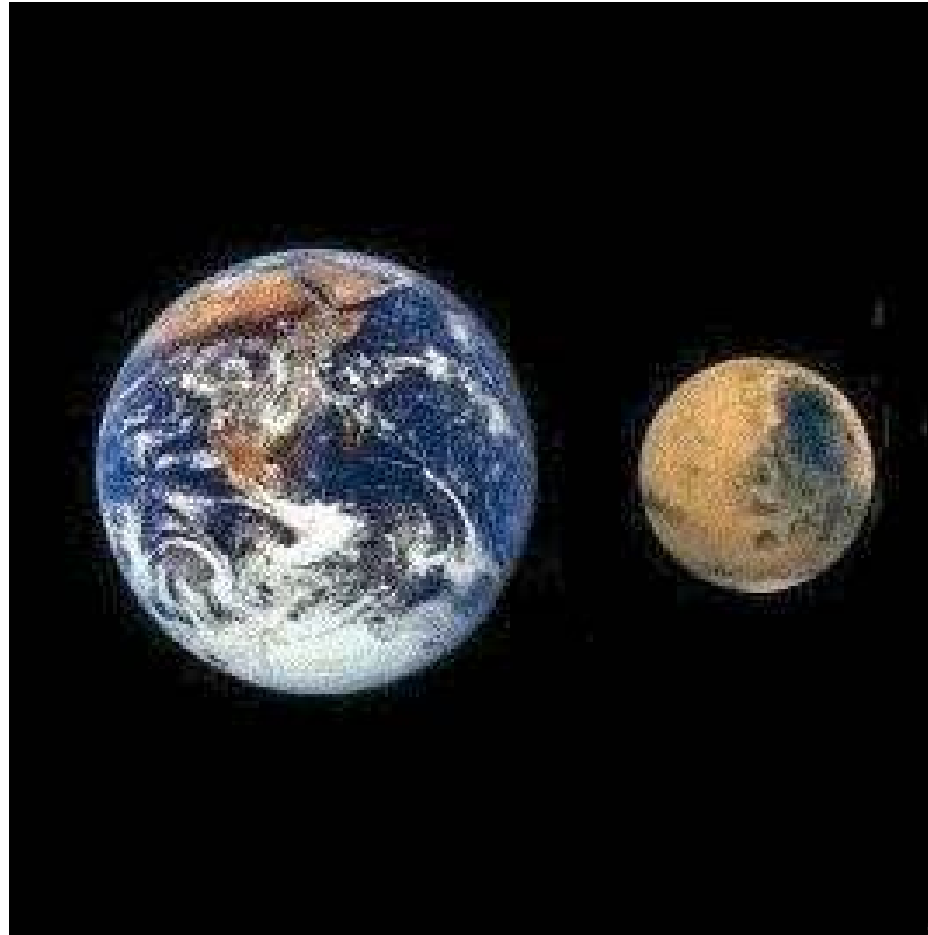
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Mars - The Red Planet



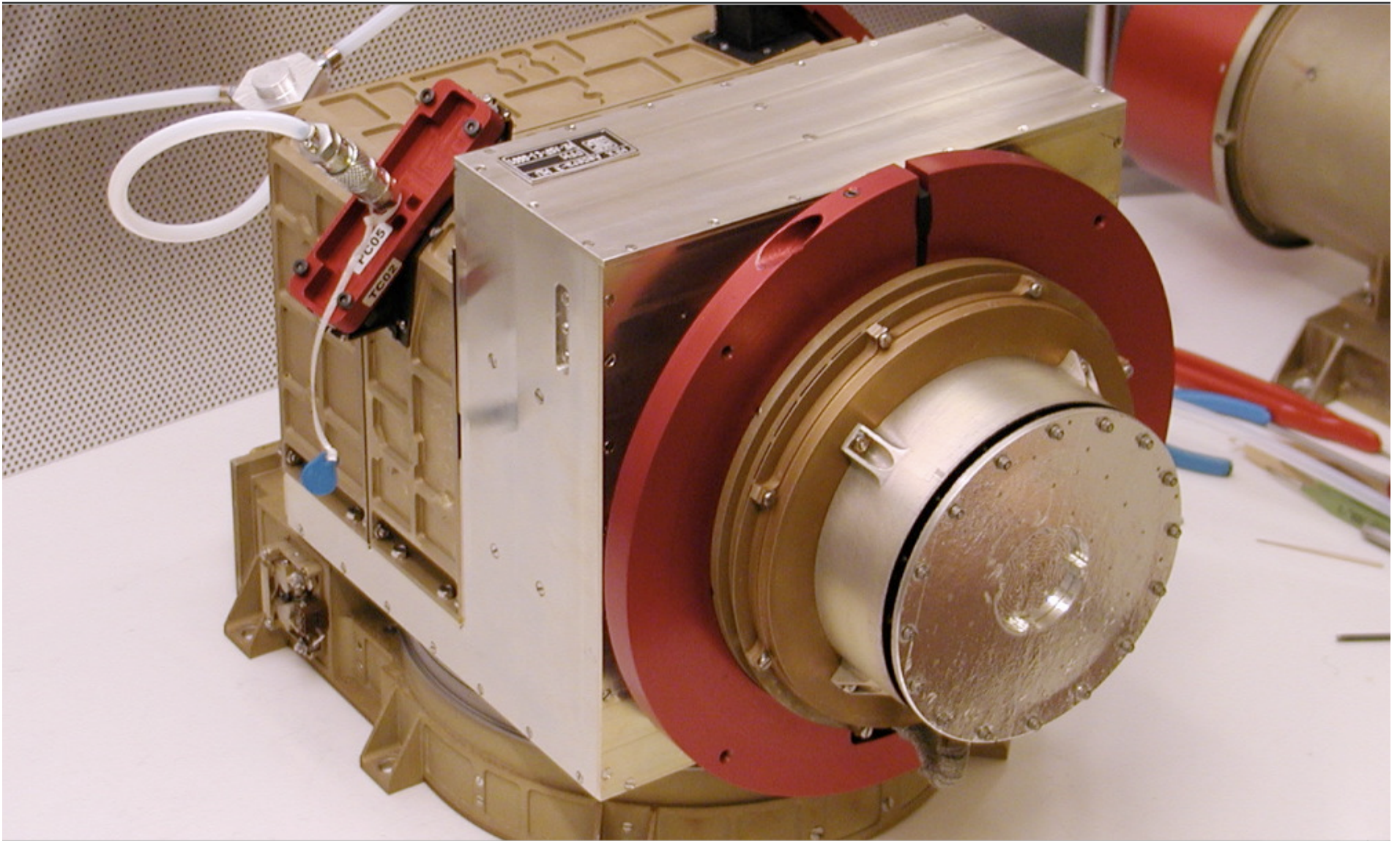
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Earth



Mars

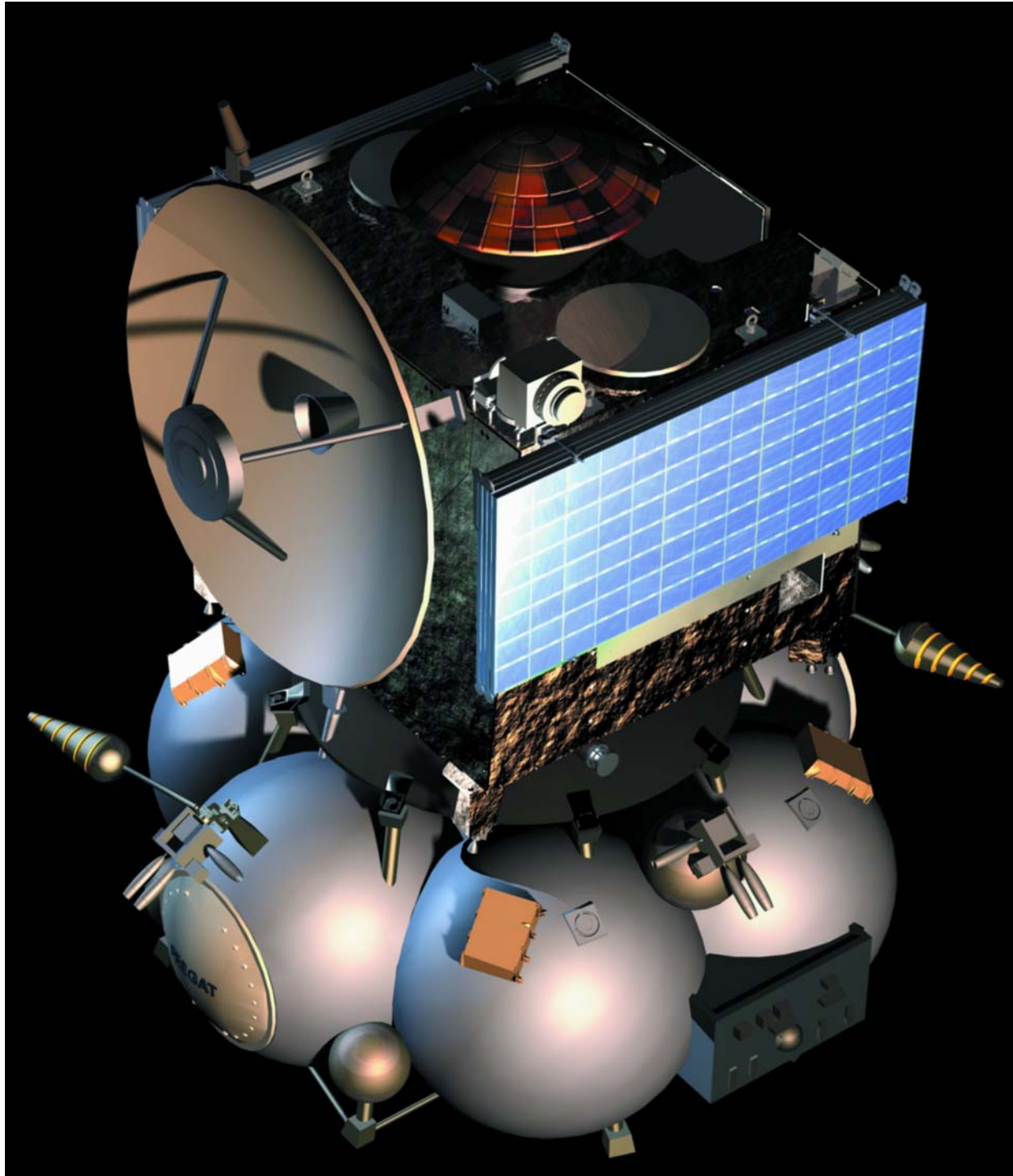
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Mars Express

Getting Ready for Launch in Kazakhstan



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Launch Day

Arrival on December 25, 2003



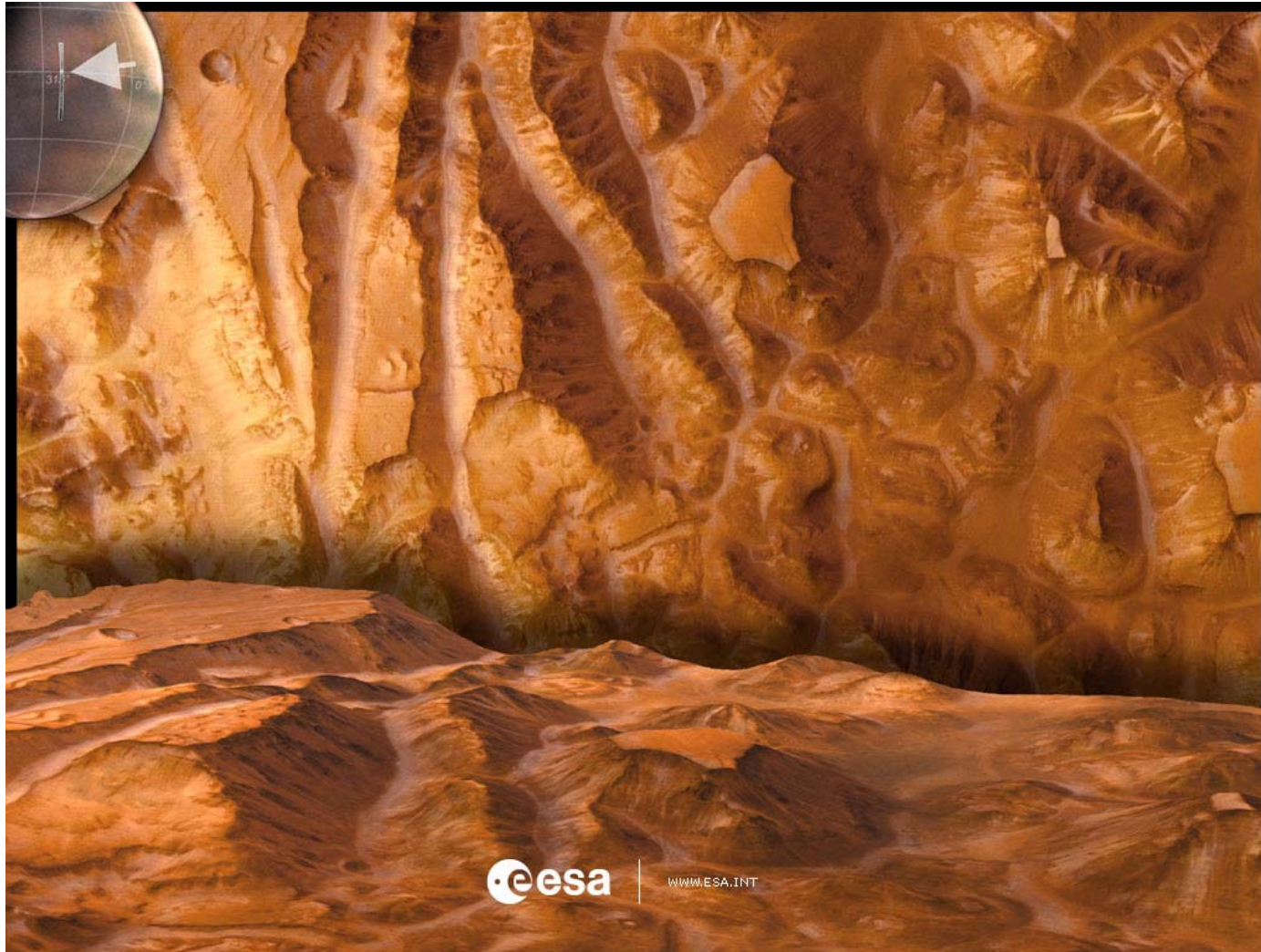
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15 December 2003

Mosaic of the Valles Marineris hemisphere of Mars. The centre of the scene (lat. -7, long. 78) shows the entire Valles Marineris canyon system, over 3000 kilometres long and up to eight kilometres deep, extending from Noctis Labyrinthus, the arcuate system of graben to the west, to the chaotic terrain to the east. Photo: NASA

A Closer Look with the Camera on Mars Express



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Tall Mountain: *Olympus Mons*



The highest volcano in the Solar System, Olympus Mons, rises 25 kilometers (~16 miles) above the surrounding plain: Mount Everest is only one third as high. Credits: USGS/NASA

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A crater on Mars with ice?



What happened to the water on Mars?

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A Big Team



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A Few Things To Think About

- Your education is a gift.
- Do what your teacher says. It's good advice!
- Don't be afraid to challenge yourself.
- In thinking about a career, pick one you will love.
- Teamwork is important.
- Have some fun too -- sports, hobbies.