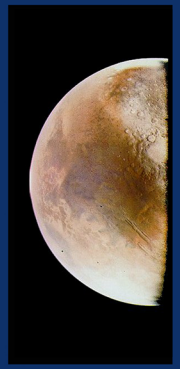


# Summary Information Sheet

## MARS



Mars, the fourth planet from the Sun, is named after the Roman god of war. Mars is known as the red planet because red iron-oxide dust and rocks cover its surface. Mars is more Earth-like than any other body in the Solar system.



Temperature ~ -55°C  
min. -133°C, max. +27°C

Crust, 40-50 km thick

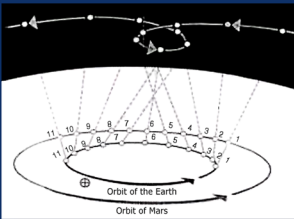
Mantle of silicate rock  
~1500 km thick

Solid iron-rich core  
radius ~1700km

Olympus Mons

One revolution around  
the Sun lasts  
687 Earth days

Condensation clouds



Mars loops in the sky

Dry, thin and cold atmosphere  
95% CO<sub>2</sub>,  
2,7% N,  
1,6% Ar

Huge vulcanos

South polar ice cap  
Both caps shrink during  
the martian summer

North polar ice cap  
(frozen carbon dioxide and water ice)

Permanently frozen soil

Northern hemisphere with  
many vast plains like  
Lunae Planum formed of  
solidified lava

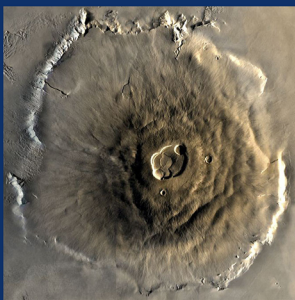
Dust storm more than  
120 km/hr

Old dried-up river  
systems = arroyos

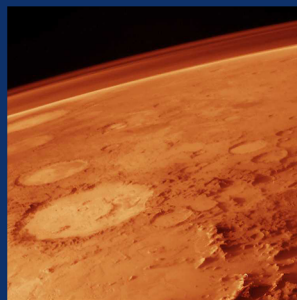
Valles Marineris canyon  
system, ten times  
longer and four times  
deeper than the Grand  
Canyon in the USA

Southern hemisphere pitted with  
craters and large impact basins

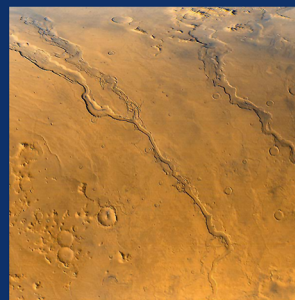
Inclination of the Equator  
to orbital plane 25°11'



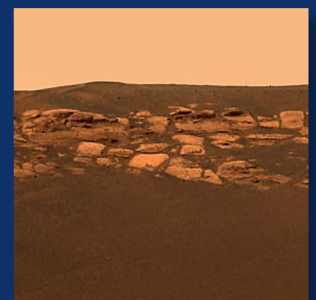
Olympus Mons



Cratered terrain and  
reddish atmosphere



Old dried-up river bed  
= arroyo



Surface seen by  
SPIRIT 2004

### Physical Data

Property
Distance from the Sun
Rotation period
Equatorial radius
Mass
Density
Satellites

Mars
228 million km
24 hrs 37 min
3397 km
6.42 x 10 <sup>23</sup> kg
3940 kg/m <sup>3</sup>
2

### For comparison

Moon
150 million km
27 days 8 hrs
1738 km
7.35 x 10 <sup>22</sup> kg
3340 kg/m <sup>3</sup>
0

Earth
150 million km
23 hrs 56 min
6378 km
5.97 x 10 <sup>24</sup> kg
5520 kg/m <sup>3</sup>
1