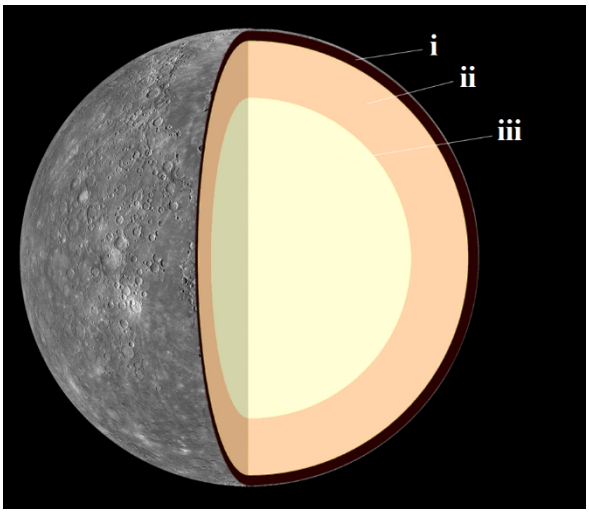
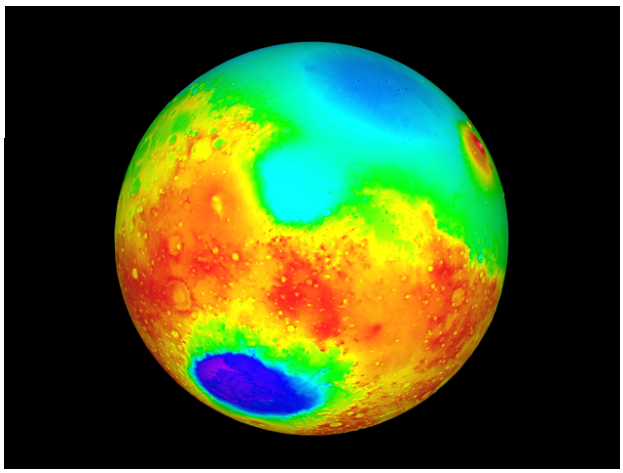
Image Sheet

A

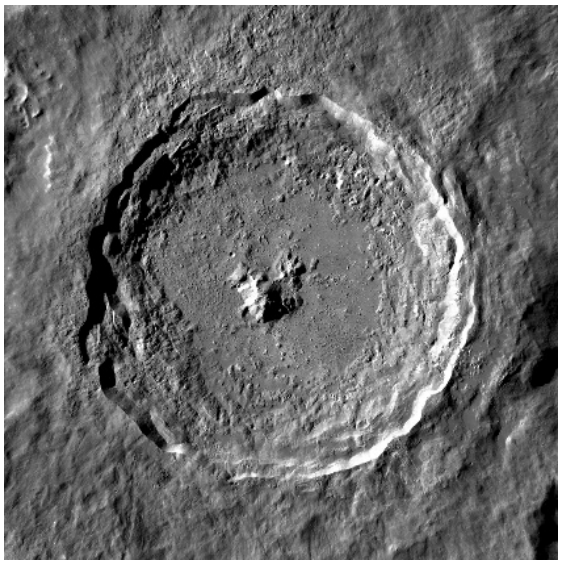


B

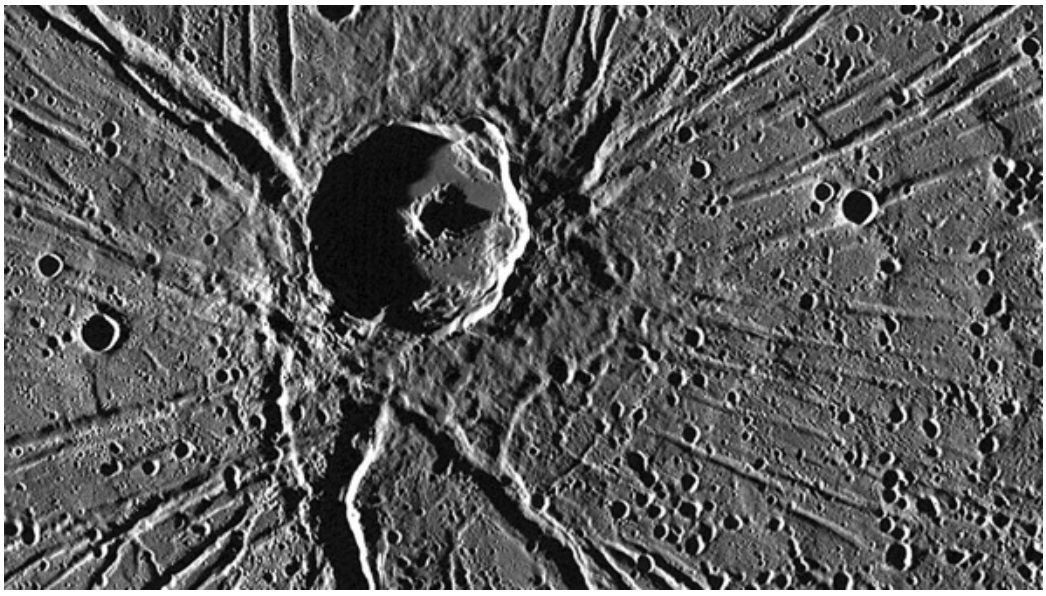
C



D

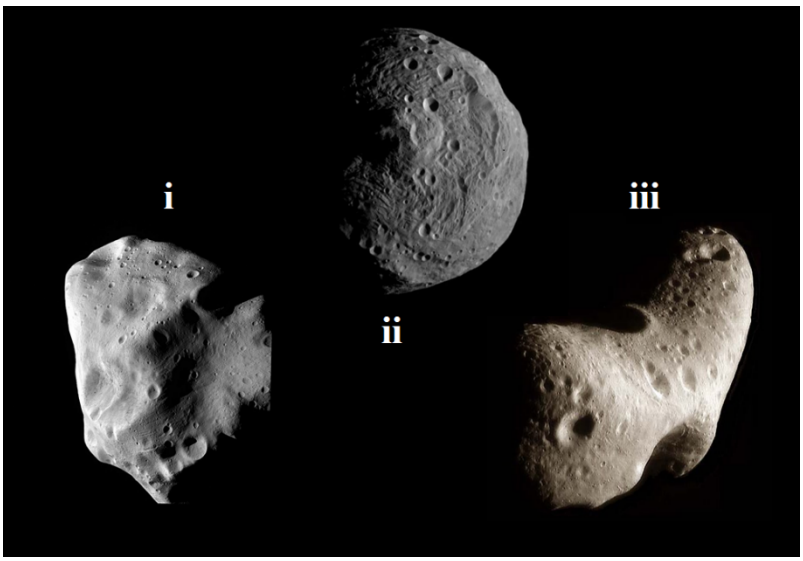


E

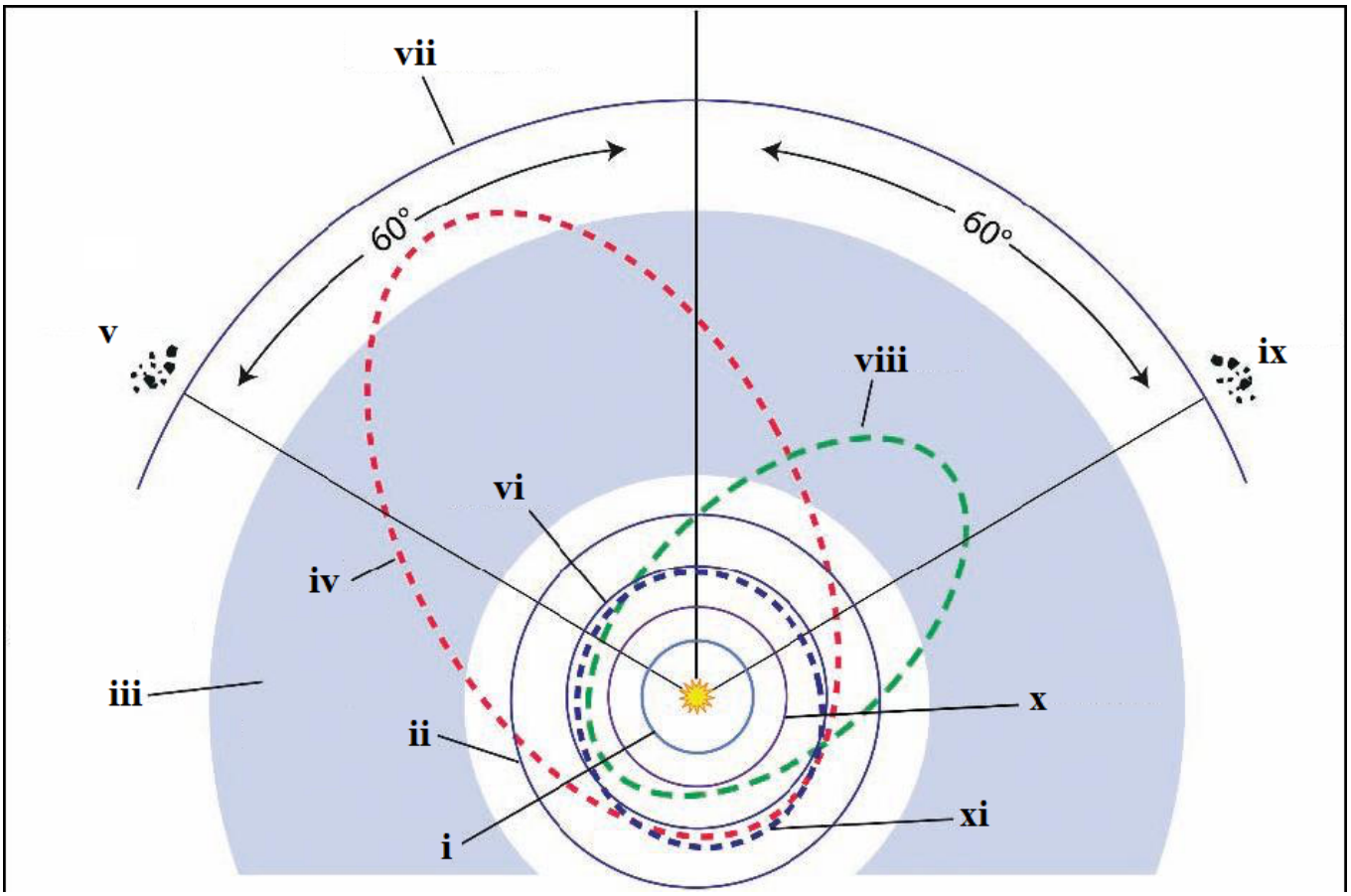


F

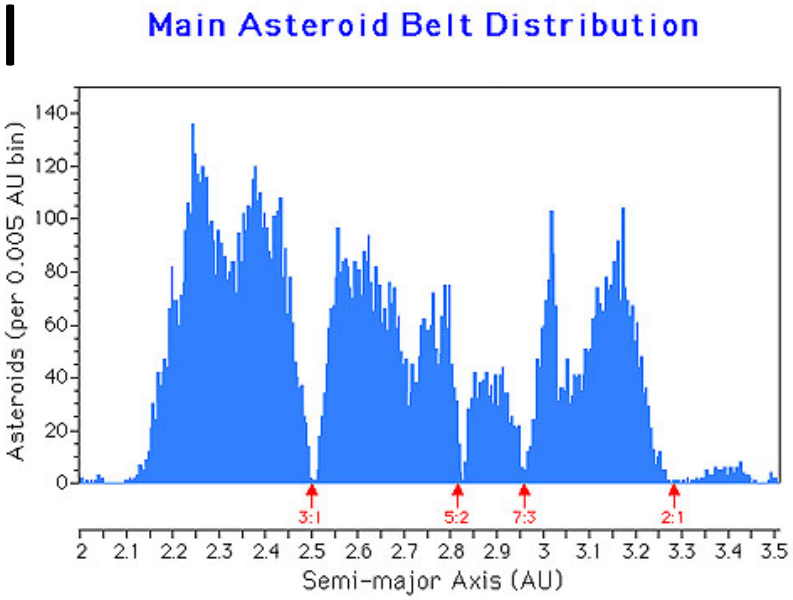
G



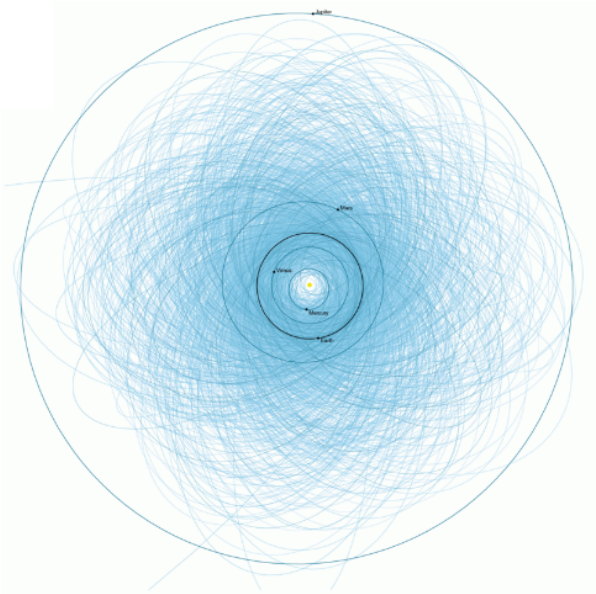
H



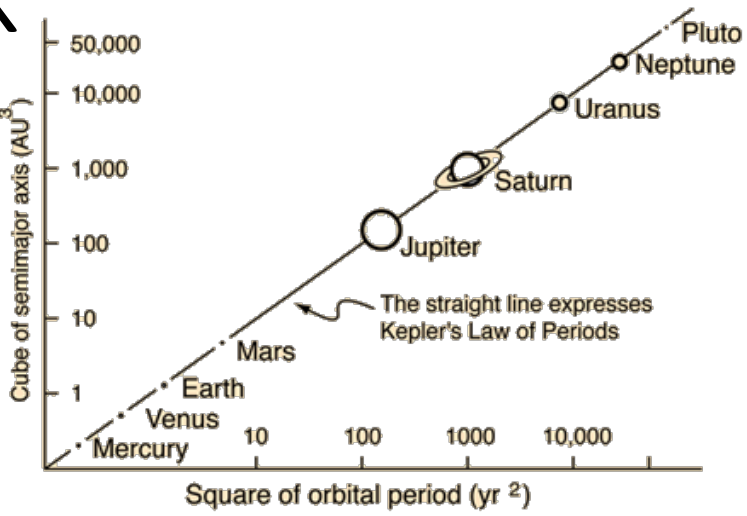
I


Main Asteroid Belt Distribution
Asteroids (per 0.005 AU bin)
140
120
100
80
60
40
20
0
3:1
5:2
7:3
2:1
2
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3
3.1
3.2
3.3
3.4
3.5
Semi-major Axis (AU)

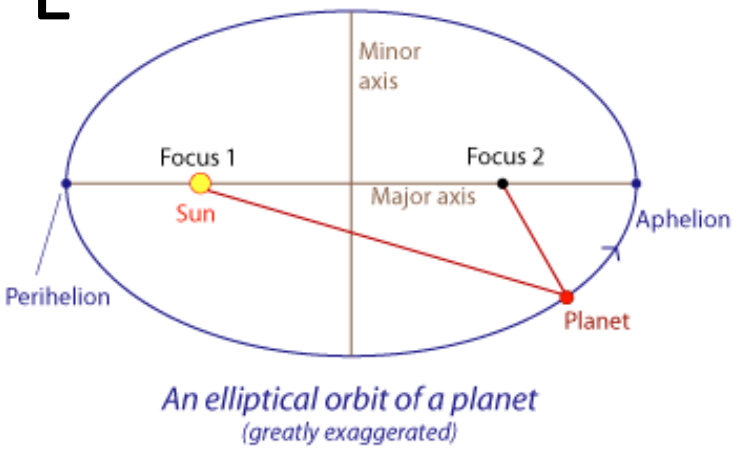
J



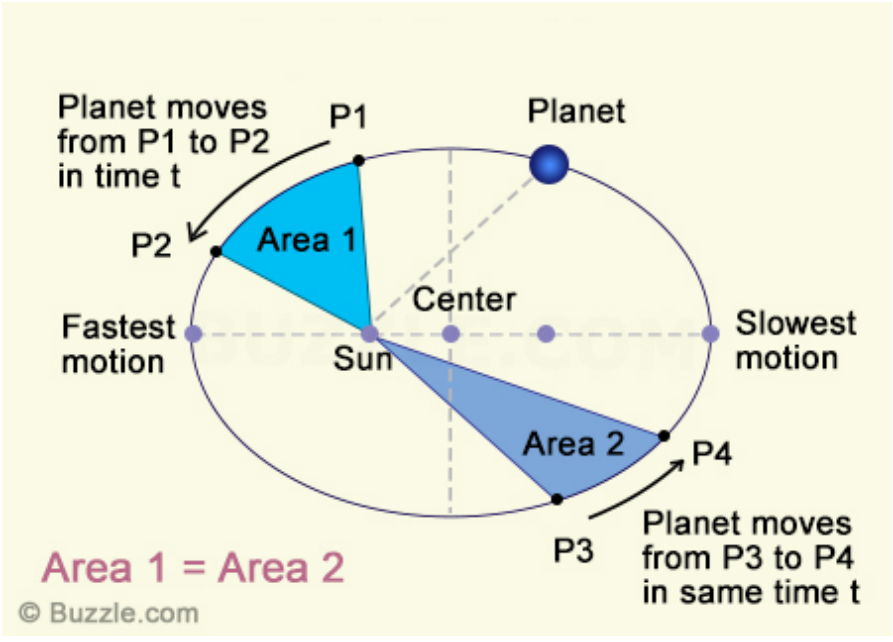
K


Cube of semimajor axis (AU3)
50,000
10,000
1,000
100
10
1
Pluto
Neptune
Uranus
Saturn
Jupiter
The straight line expresses
Kepler's Law of Periods
Mars
Earth
Venus
Mercury
10
100
1000
10,000
Square of orbital period (yr 2)

L


Minor
axis
Focus 1
Focus 2
Major axis
Sun
Aphelion
Perihelion
Planet
An elliptical orbit of a planet
(greatly exaggerated)

M


Planet moves
from P1 to P2
in time t
P1
Planet
P2
Area 1
Center
Fastest
motion
Sun
Slowest
motion
Area 2
P4
P3
Planet moves
from P3 to P4
in same time t
Area 1 = Area 2
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