

### Definitions

**Periapsis** is the closest and

**Apoapsis** is farthest.

**Eccentricity** shape of an orbit, 0 is a perfect circle.

**Asthenosphere** is upper mantle, below lithosphere. **Lithosphere** is crust and uppermost mantle.

### Geologic Formations

**Highland continents:** areas of unstable terrain with high peaks and valleys on Mercury, Venus, The Moon, and Mars.

**Escarments:** steep slopes/long cliffs that form because of vertical movement along a fault line. On Mercury. **Dorsa** (Winkle Ridges): low ridges, can extend for several hundred km. On Mercury, the Moon, and Mars. Mercury: when basaltic lava cools and contracts. Mars: due to compression stress in crust which caused a crack. One side then pushed on top of the other.

### Geologic Formations 2

**Pancake volcanoes** (Farra) on Venus, near highly deformed terrain, look like shallow impact craters raised above the surface, and form from one large slow eruption of silica rich lava.

**Arachnoids** features on Venus resembling spider webs. Several ovals surrounded by cracks

**Corona** is an oval shaped volcanic surface feature on Venus. Formed when rising hot material pushes the material into a dome shape then collapses due to magma leakage to the sides. **Caldera** depressions formed after evacuation of magma from underneath a volcano..

### Deimos

**Rotational Period** 30.4 hours.

**Semimajor Axis** 23460 KM.

**Diameter** 12 km. **Orbital Period** 1.263 days. **Regolith** 50m thick.

**Escape velocity** 5.6 m/s.

**Apparent magnitude** 12.45.

**Albedo** 0.071.

### Deimos (cont)

**Misc.** Is likely Deimos was an asteroid then Mars' gravitational field pulled it into orbit. Two craters have been named Swift and Voltaire both 3000m across. Named after writers that predicted existence of Martian moons. Orbit is circular and close to Mars' equatorial plane. At a full moon would be bright as Venus.

Discovered on 8/12/1877 by Asaph Hall. Named after greek figure Deimos, brother of Phobos, personified terror. Deimos translates to dread. **Look** Bit of a red hue. Would of been a sphere but chunk is missing on the bottom and top right.

### 10 Hygeia

**Diameter:** 276 Miles. **Mass:** 8.67

$\times 10^{19}$  kg. 2.9% of mass of belt.

**Orbital Period:** 2034.3 days.

**Eccentricity** 0.1146 **Aphelion:**

3.5024 AU **Perihelion:** 2.7817 AU

**Inclination:** 3.8377° **Albedo:**

0.0717 **Misc.** 4th largest object in belt by volume and mass. Largest C-type asteroid. **Discovered** April 12 1849: Annibale de Gasparis.

**Visual** Oblong sphere. Grey color with lines running across the surface. Most craters on one side.



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