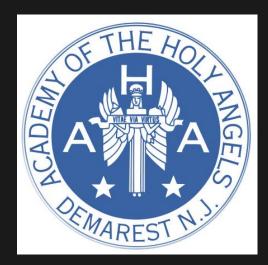
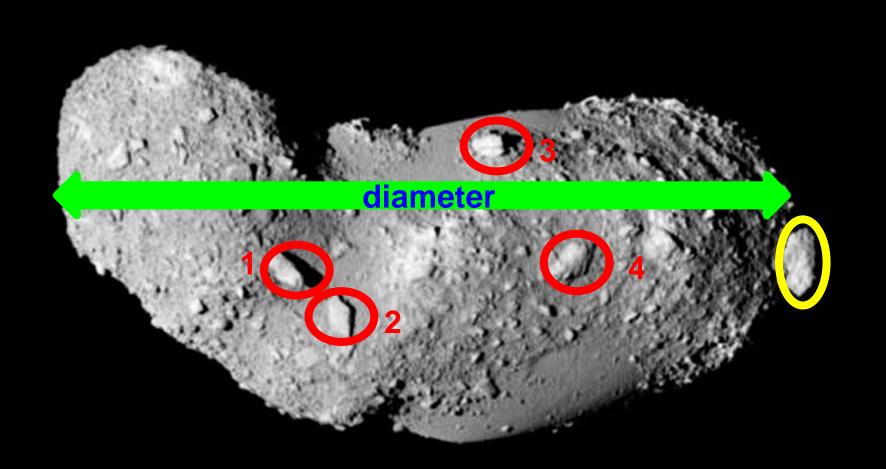
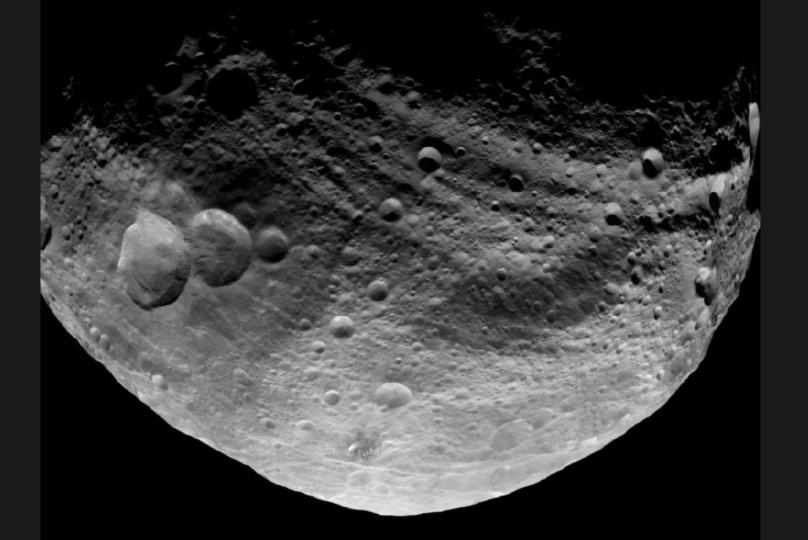
Academy of the Holy Angels: Asteroid 101 Presentation

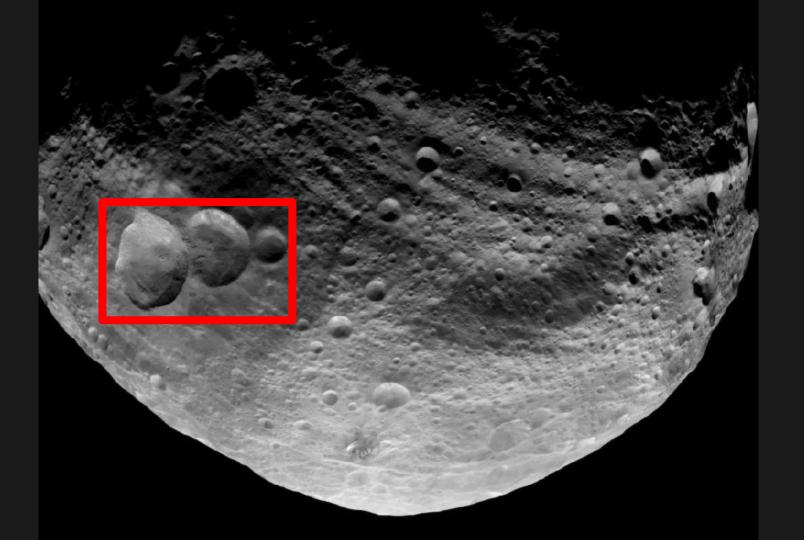


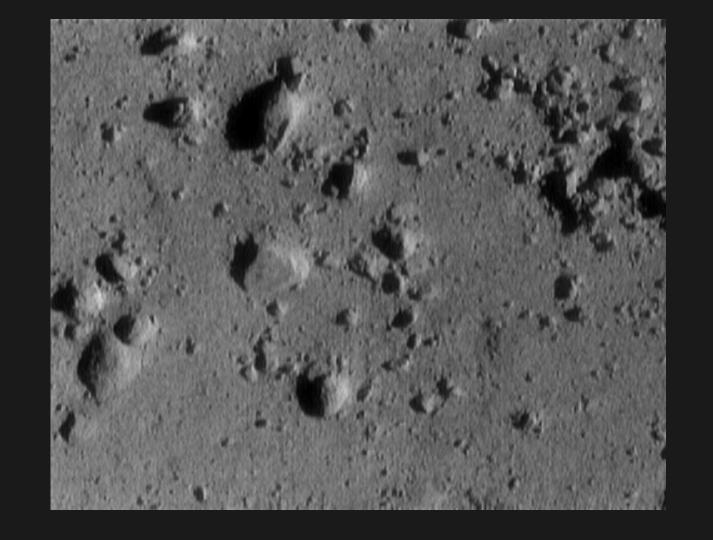
By Francesca Boccia, Siddhi Patel and Samantha Pereira

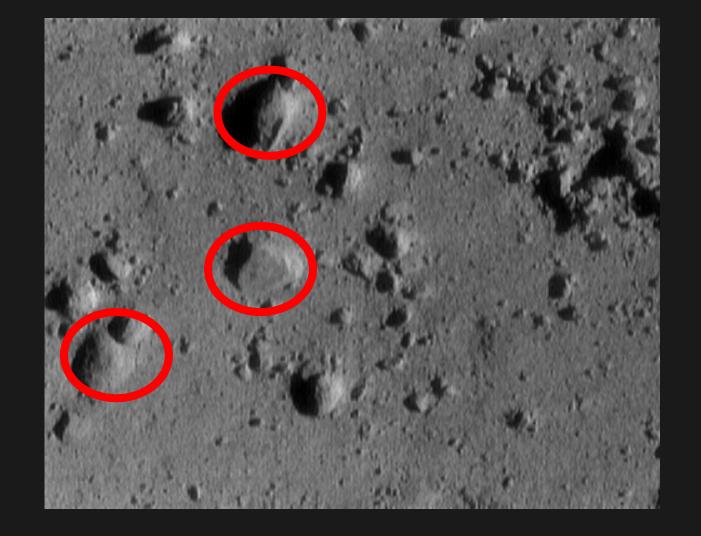












Relationships

Equation:

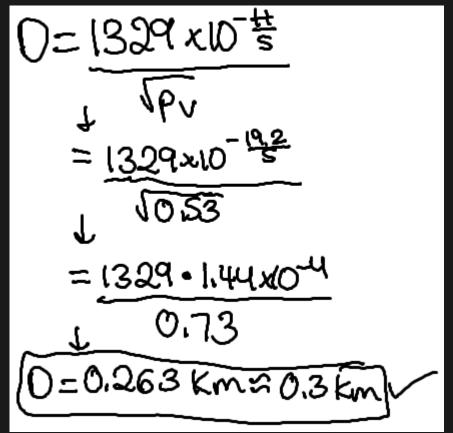
$$D = \frac{1329 * 10^{-\frac{H}{5}}}{\sqrt{p_v}}$$

Where D is the diameter of the asteroid in kilometers

Where H is the absolute magnitude

Where p_v is the albedo

Application of Relationship (Image 1)



Application of Relationship (Image 2)

$$0 = 1329 \times 10^{-\frac{11}{5}}$$

$$= 1329 \times 10^{-\frac{11}{5}}$$

$$= 1329 \cdot 0.229$$

$$= 0.65$$

$$0.65$$

$$0 = 468 \text{ km} \approx 470 \text{ km}$$

Application of Relationship (Image 3)

$$D = 1329 \times 10^{-\frac{11}{5}}$$

$$= 1329 \cdot 10^{-\frac{11.16}{5}}$$

$$= 1329 \cdot 0.0059$$

$$= 15.5$$

$$D = 16 \text{ km} \approx 17 \text{ km}$$