

# Large asteroid to pass Earth on Halloween

Asteroid 2015 TB145, measuring approximately 320 metres in diameter, will pass by the Earth at about 1.3 lunar distances on the night of October 30-31 – the closest flyby of a space rock since 2006

**CLOSE ENCOUNTER** (planetary positions as of Oct 20)

Earth orbit

Mars

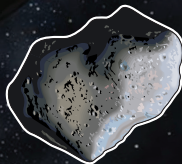
Mercury

Venus

**Asteroid  
2015 TB145**  
Orbital period  
3.08 years

**Earth**

Asteroid's highly eccentric orbit delayed its discovery until October 10 this year



*0.3km-wide asteroid and Empire State Building shown to scale*

Jupiter orbit

Asteroid approaching at unusually high speed of 35km per second

*Artist's impression of asteroid flyby (not 2015 TB145)*

Size of Earth, Moon, asteroids and planets increased for clarity

**DISTANCE FROM EARTH**

**Earth**

