

What is It??

Comets, Asteroids and Meteoroids



Asteroid

- Big weird shaped rocks, smaller than planets



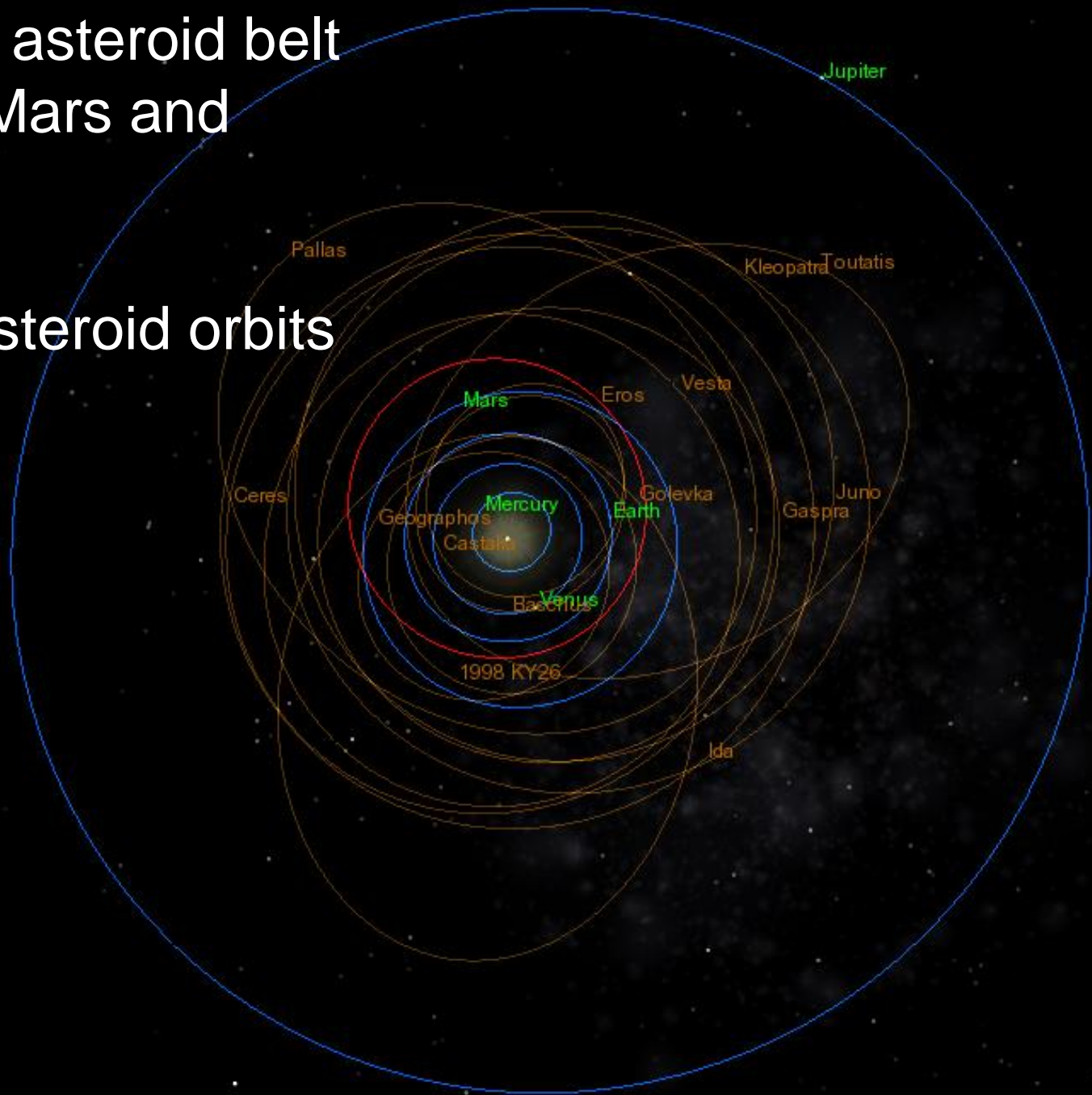
Asteroid Ida

Location:

- Orbit between Jupiter and Mars

Location: asteroid belt
between Mars and
Jupiter

Brown= asteroid orbits



Comet

- chunks of ice
(water, carbon dioxide),
dust, hydrocarbons



McNaught Comet
*Largest in world



2015 Comet Lovejoy



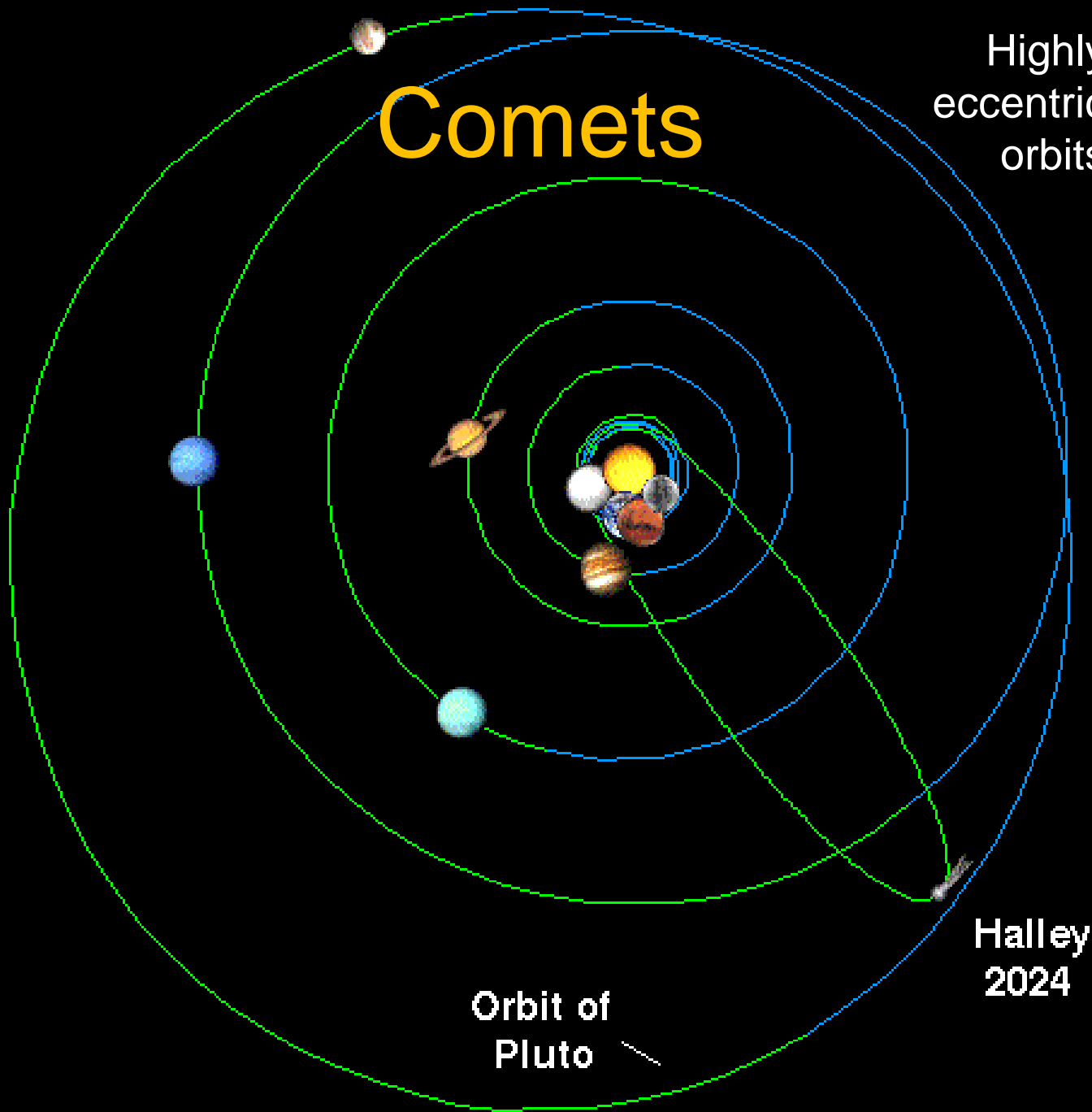
Haley's Comet



Lulin Comet

Comets

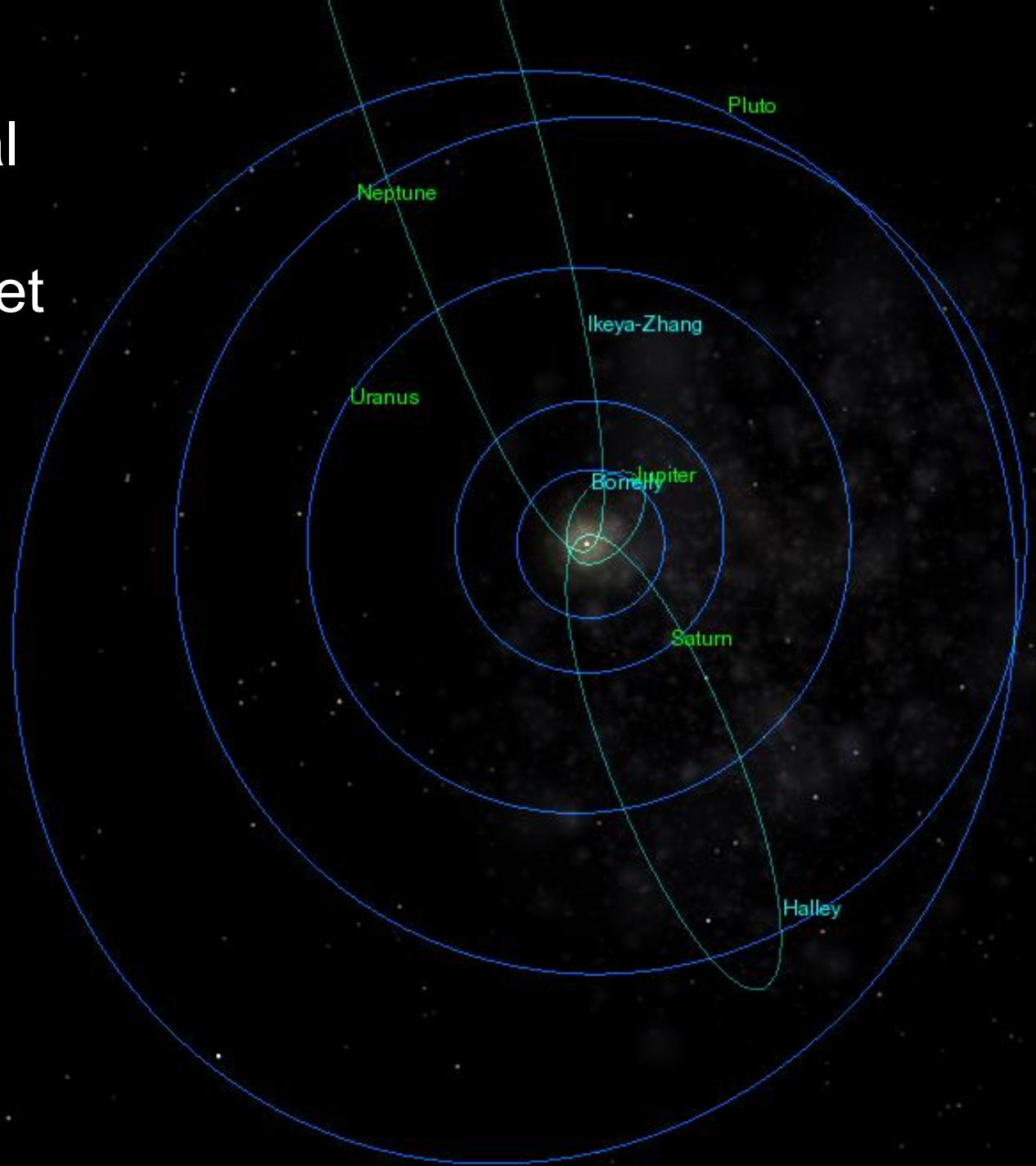
Highly
eccentric
orbits



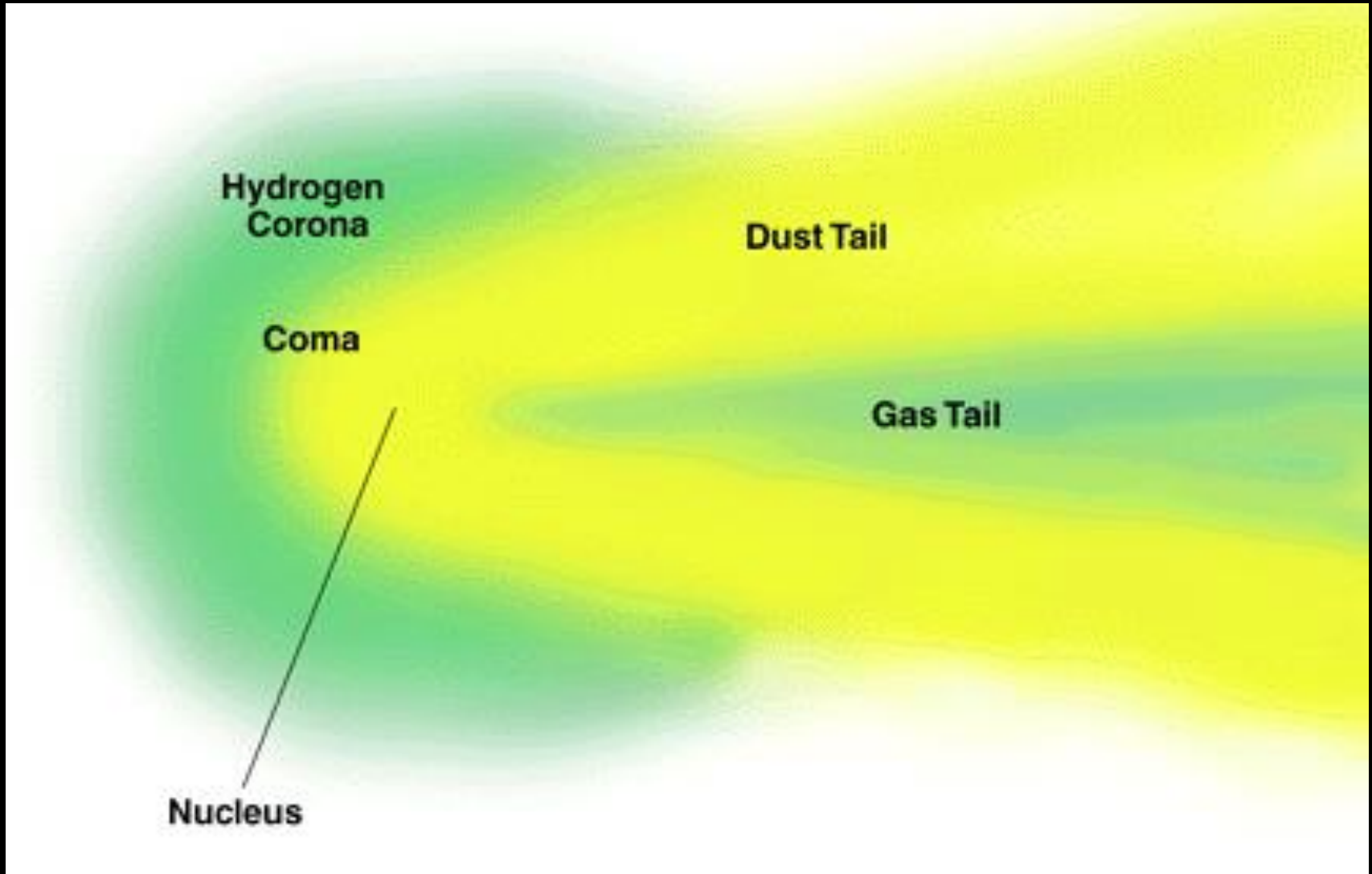
Orbit of
Pluto

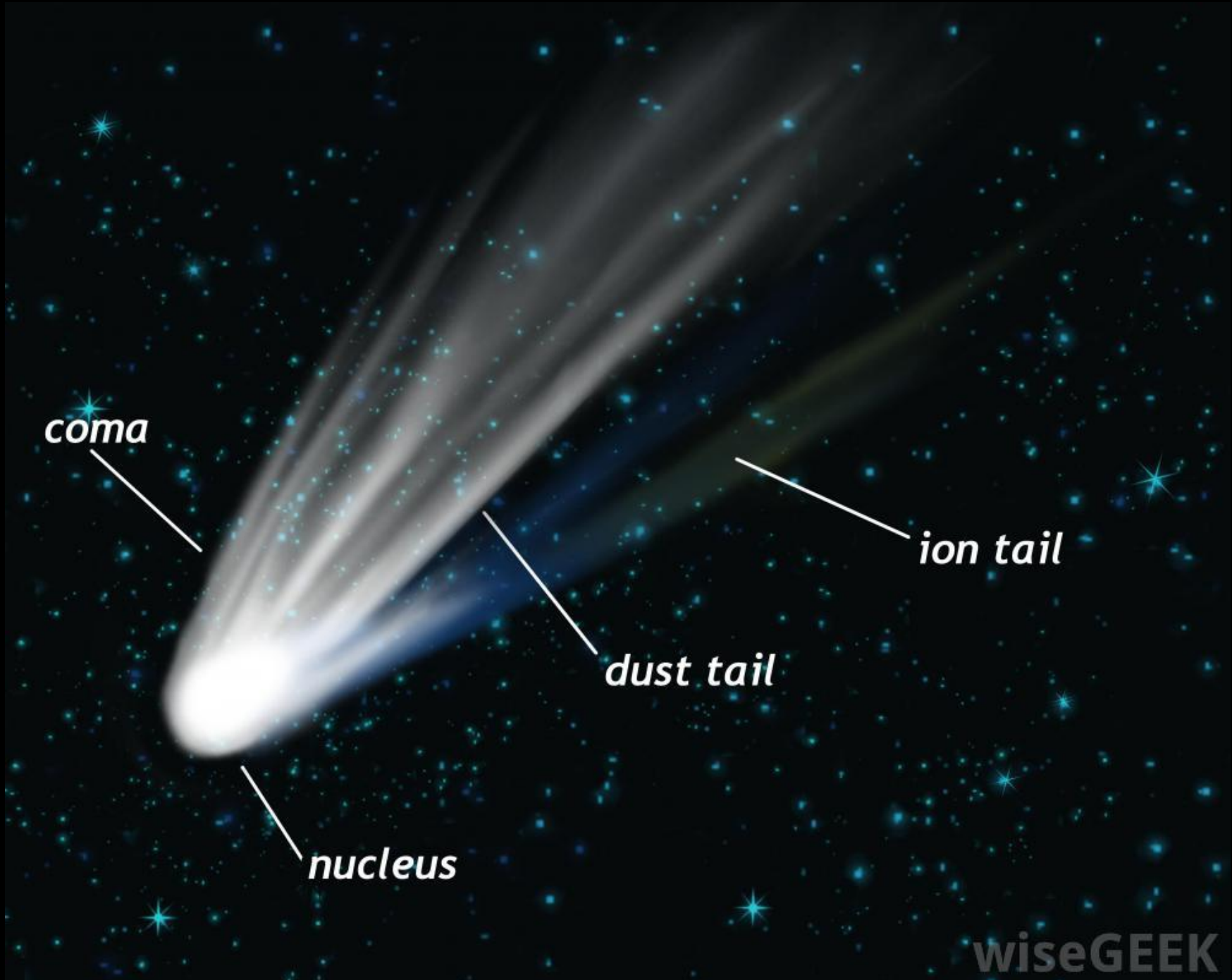
Halley
2024

Long elliptical
orbits of
Halley's comet
and comet
Ikeya-Zhang



Comets





coma

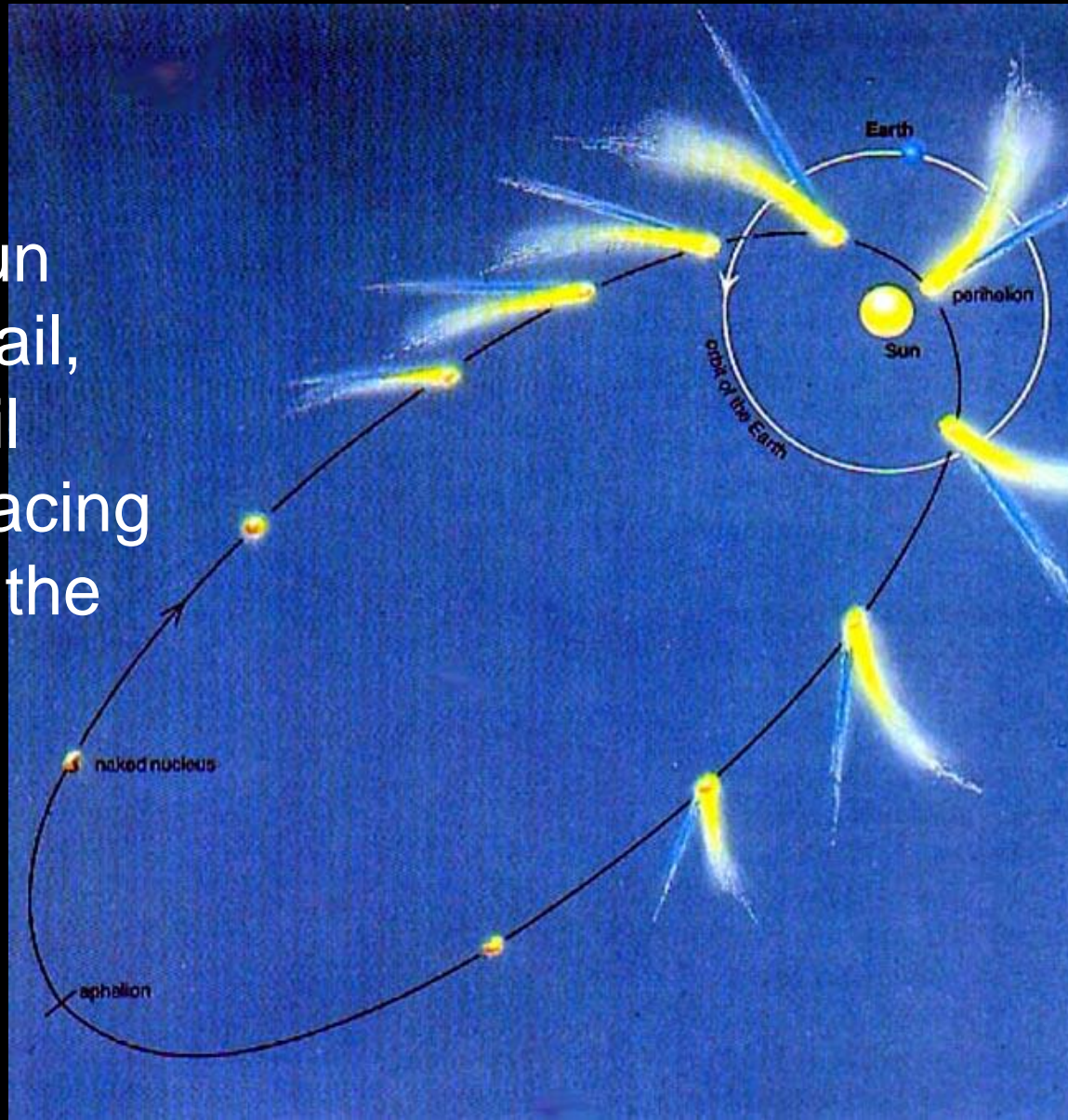
ion tail

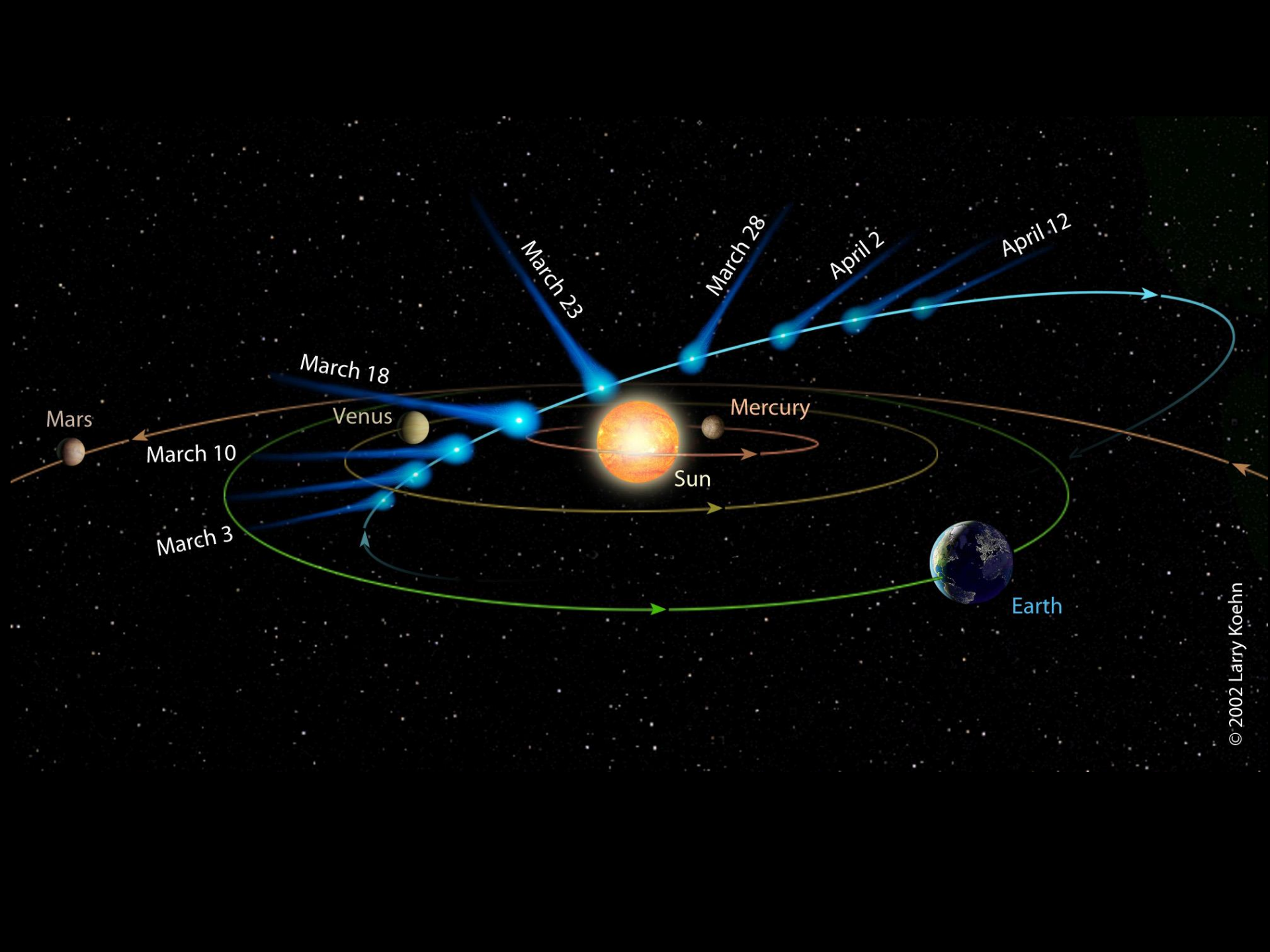
dust tail

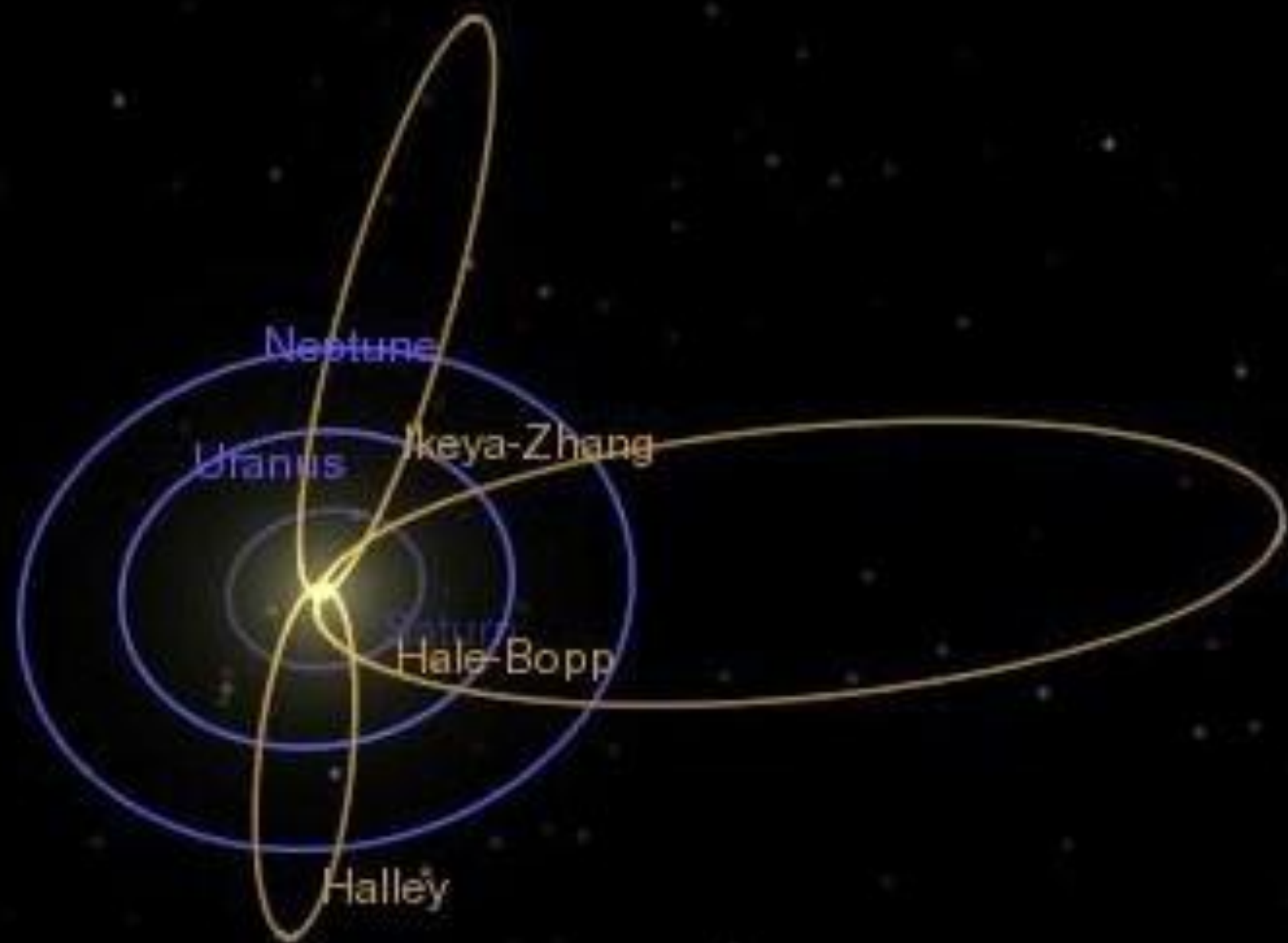
nucleus

Comets

Solar wind from the sun forms the tail, thus the tail is always facing away from the Sun.

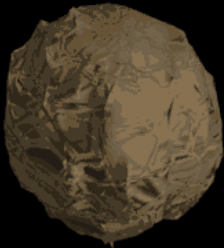






Meteoroid:

- chunk of a comet or an asteroid
- most = size of sand grain
- size does vary



Meteoroid



Yucatan Peninsula

Meteor



- chunk of a comet or an asteroid, going through Earth's atmosphere



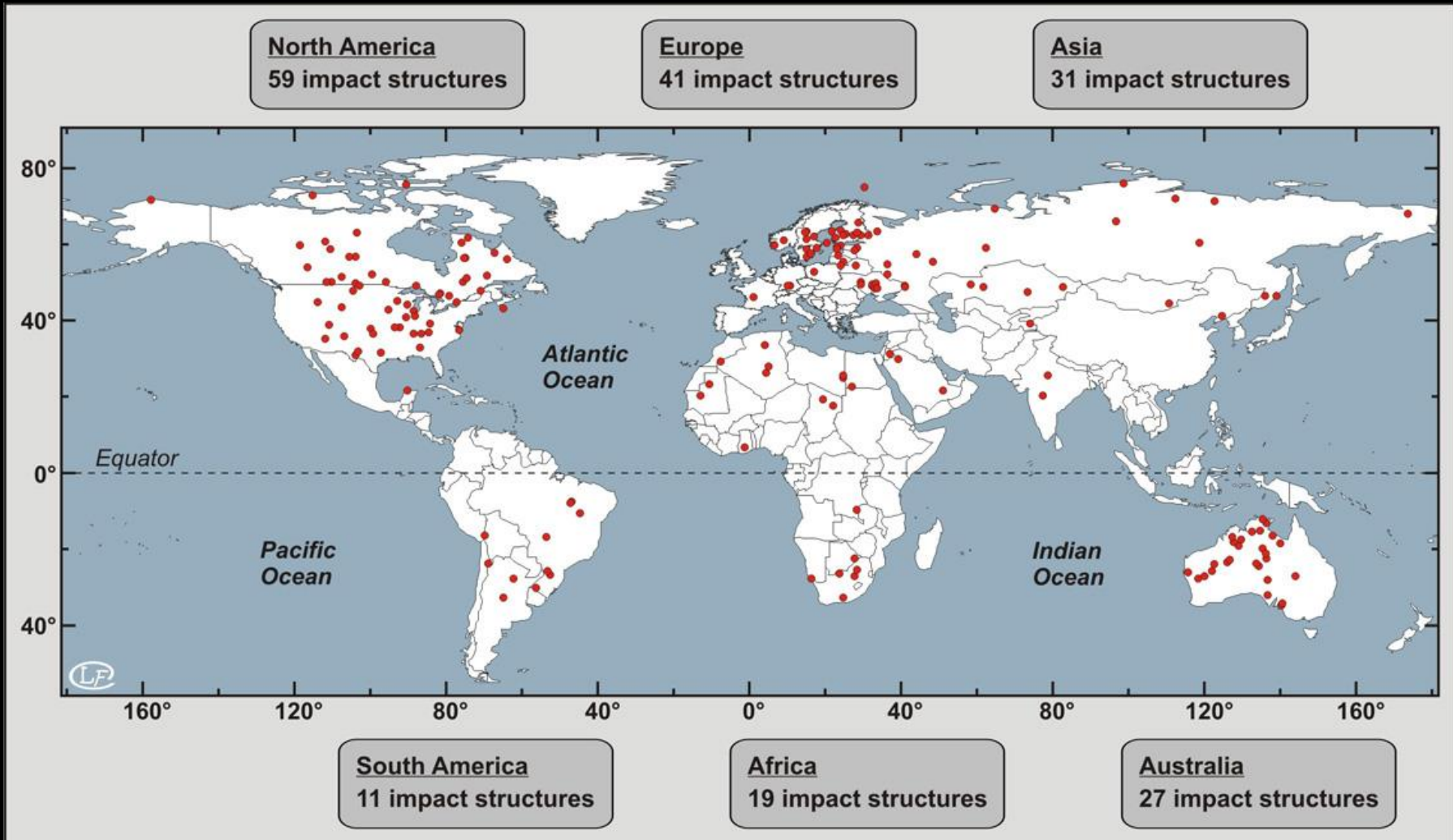
Russian Meteor 2013



Arizona Meteor Crater



Impact Craters Around the World



Meteorite:

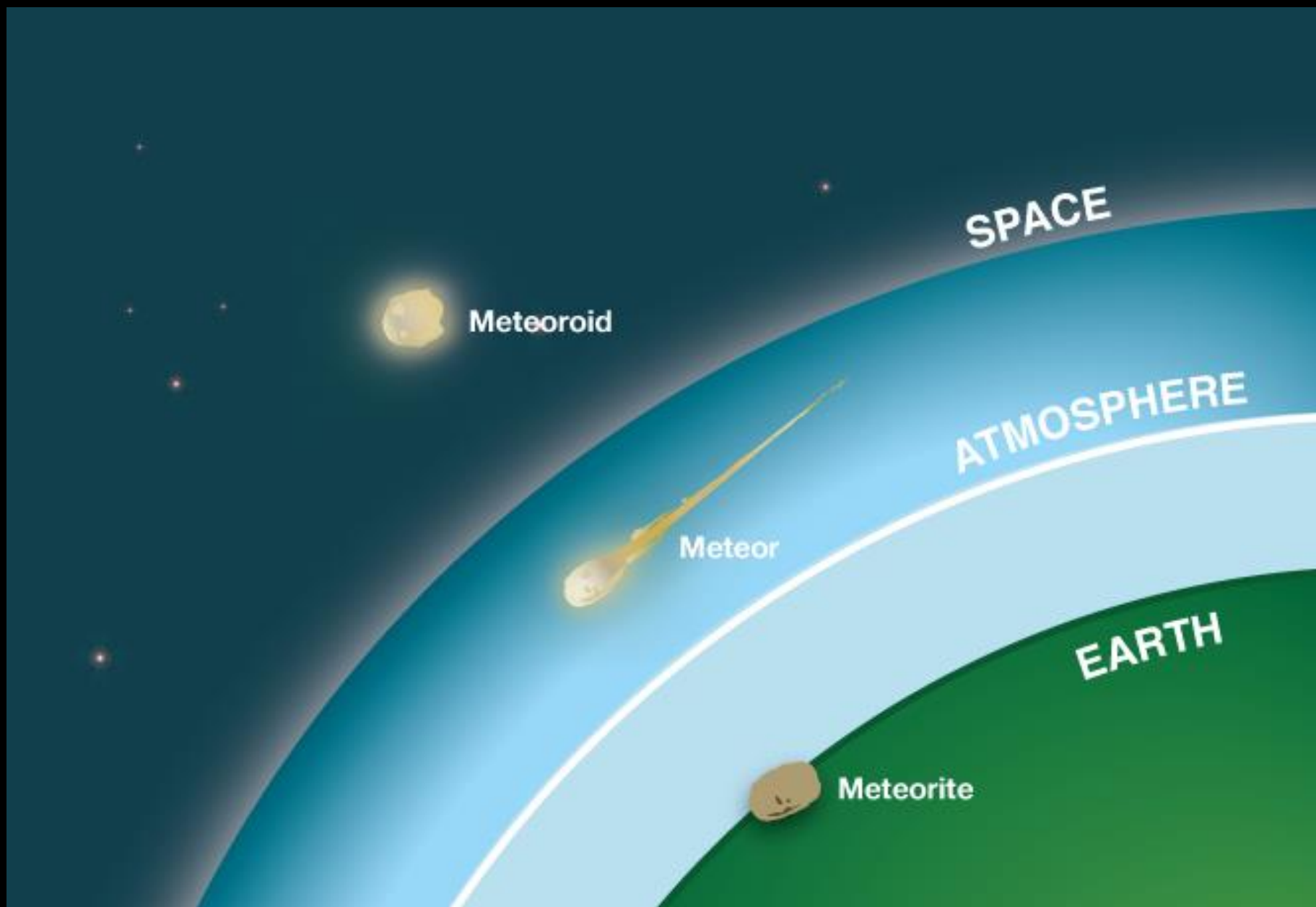
- meteor that has hit the ground



Murchison Meteorite



Allende Meteorite



Practice Time

