Eris
Dwarf Planet-Scattered Disk Eris is covered in ices; it partly thaws when it nears the Sun every 557 years.

Pluto
Dwarf Planet-Kuiper Belt Valleys carved by nitrogen glaciers and tal

Neptune
Gas Giant Planet Neptune has very active weather systems, including the stryonest susteined windels in the solar system: up to $2100 \mathrm{~km} / \mathrm{h}$.

Uranus
GAS Giant Planet The axis of rotation of Uranus is tilied The axis of rotation of Uranus is itited
sideways, probably due to a collision wit sideways, probably due to a collision with
an Earth-sized object soon after it formed

## Our Solar System

Relative size and interesting facts for all known objects over 1500 km in diameter (and two notable others).

Positions not to scale; approximately true color.

Charon, a Moon of Pluto,


## Saturn

GAS GIANT PLANET
The rings of Saturn consist or
inumerable smalc clumps of ice and
dust orbiting the planet together.

LaRGESt MOONS OF SATURN
lapetus: A 13 km high ridge runs haliway around its equato Titan: Has rivers, lakes, and rain made of liquified natural gas. Rhea: Ciant tice rlifis from tectonic activity streak its surface.

## Sun

Main Sequence Star
The Sun's hot plasma twists its powerfu magnetic field into knots, causing sunspots and intense solar flares.

LARGEST MOONS OF JUPITER
Io: Over 400 active volcanoes due to Jupiter's cravity
Europa: Has an ocean of liquid water under its ice crust Ganymede: So large that it creates its own magnetic field. Callisto: Stable surface and low radiation due to its wide orbit.

## The Moon (OF EARTH)

 Probably formed when a Mars-sizedobject collided with the early Earth.


## Ceres

DWARF PLaNeT-Asteroid Belt Ceres contains $1 / 3$ of the mass of

Mars
Terrestrial PLANet The iee caps of Mars grow a layer of dry ice The ice caps of Mars grow a layer of ary ice
each winter I. Is sping it turns back into co gass,
causing 400 k $m$ /h hinds and global dust storms. cang $400 \mathrm{~km} / \mathrm{h}$ winds and global dust storms.
the entire asteroid bel.

Venus
Terrestrial Planet Venus's thick $\mathrm{CO}_{2}$ atmosphere and sulfuric cid clouds trap heat like a greenhouse: its

Mercury
Terrestrial PLaney
Mercury rotates so slowly that sunrise o sunset lasts a aull Mercury year
(about 88 Earth days).

Earth
TERRESTRIAL PLANET On this tiny planet, alone in the vastness of space, every person you've
ever loved has lived out their lives.

## Jupiter

Gas Giant Planet

## Jupiter's ammonia cloud bands include the Great Red Spot, vast vorex storm that has persisted for hundreds of years.

