

Patterns on Earth

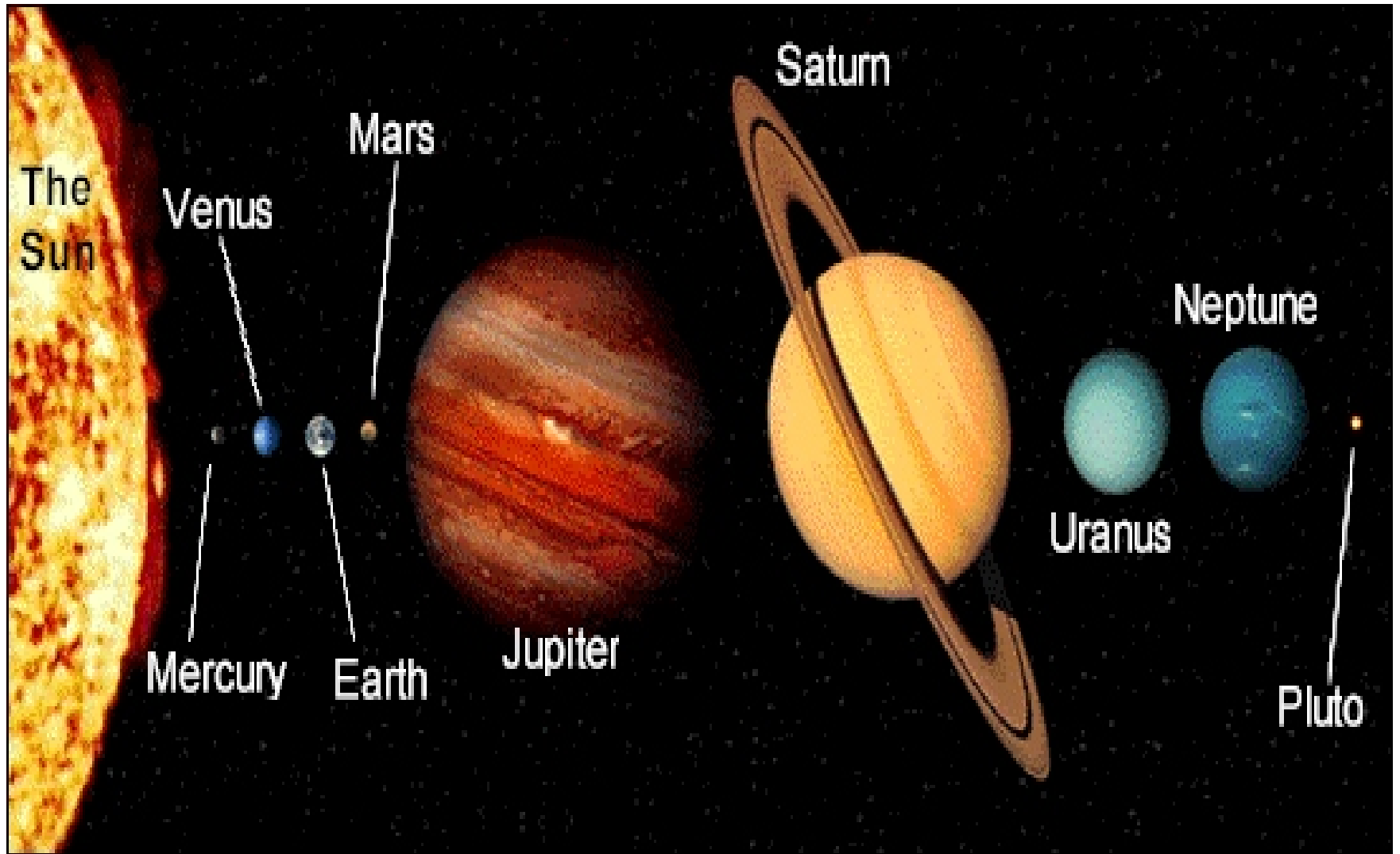
4.8C

solar system

Refers to a star and all the objects that travel in orbit around it.

Our solar system consists of the sun - our star - eight planets and their natural satellites (such as our moon); dwarf planets; asteroids and comets. Our solar system is located in an outward spiral of the Milky Way galaxy.

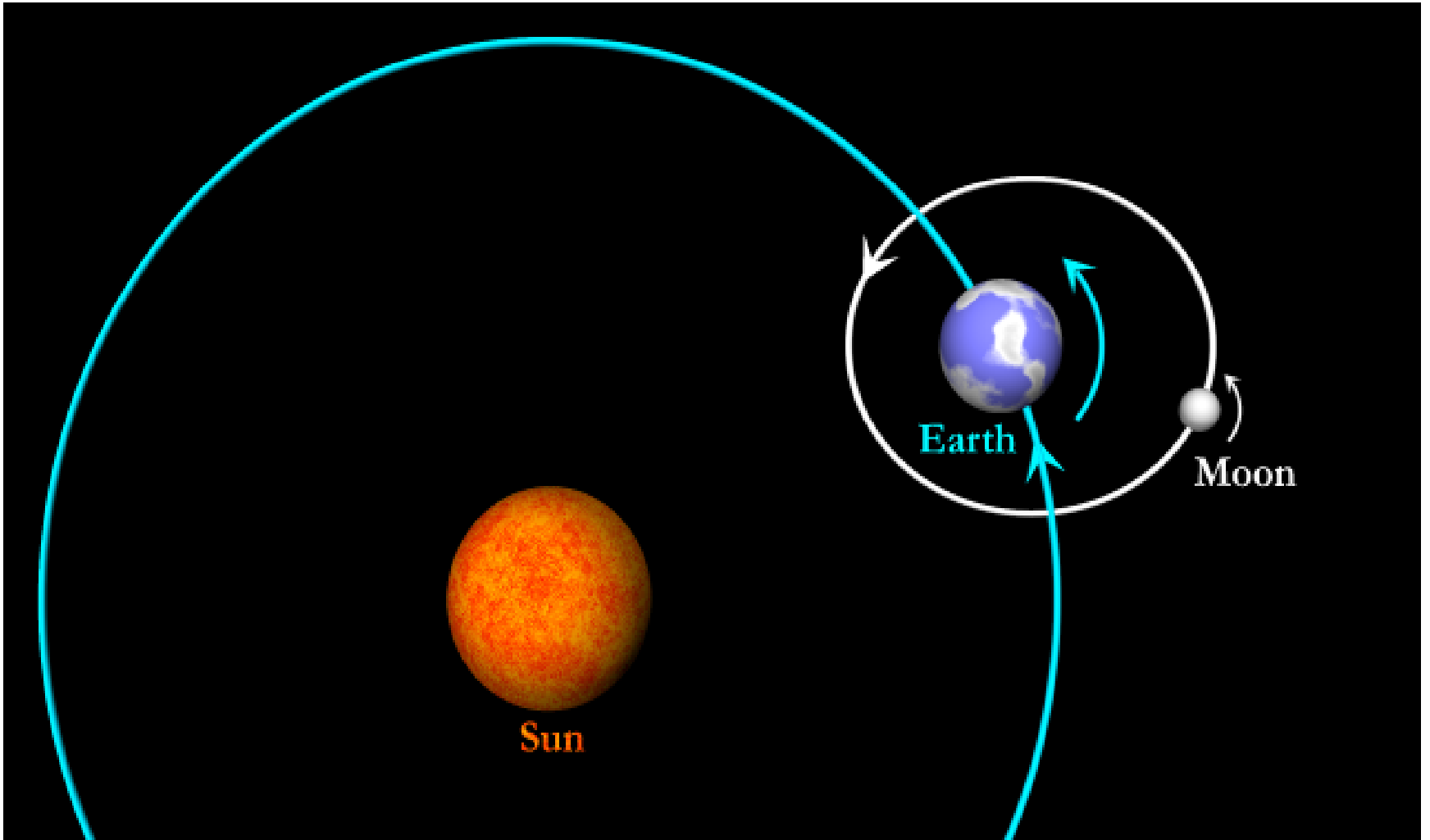
solar system



Earth

Third planet from the sun. The only planet in our solar system that can support life.

Earth



Sun

The center of our solar system which all planets revolve around. It is Earth's source for heat and light energy. It takes Earth 365 days (1 year) to revolve around the sun 1 time.

sun



Moon

Earth has just one moon.

It is 238,857 miles away from Earth. The moon's magnetic pull creates the oceans' tides.

moon



asteroid

A large rock or small planet orbiting the Sun.

Most asteroids lie in a “belt” between Mars and Jupiter.

asteroid



lunar eclipse

**Occurs when Earth
blocks light from the
sun making the moon
appear darkened.**

lunar eclipse



solar eclipse

When the sun's light is blocked because the moon is between it and the Earth, it is called a solar eclipse.

solar eclipse



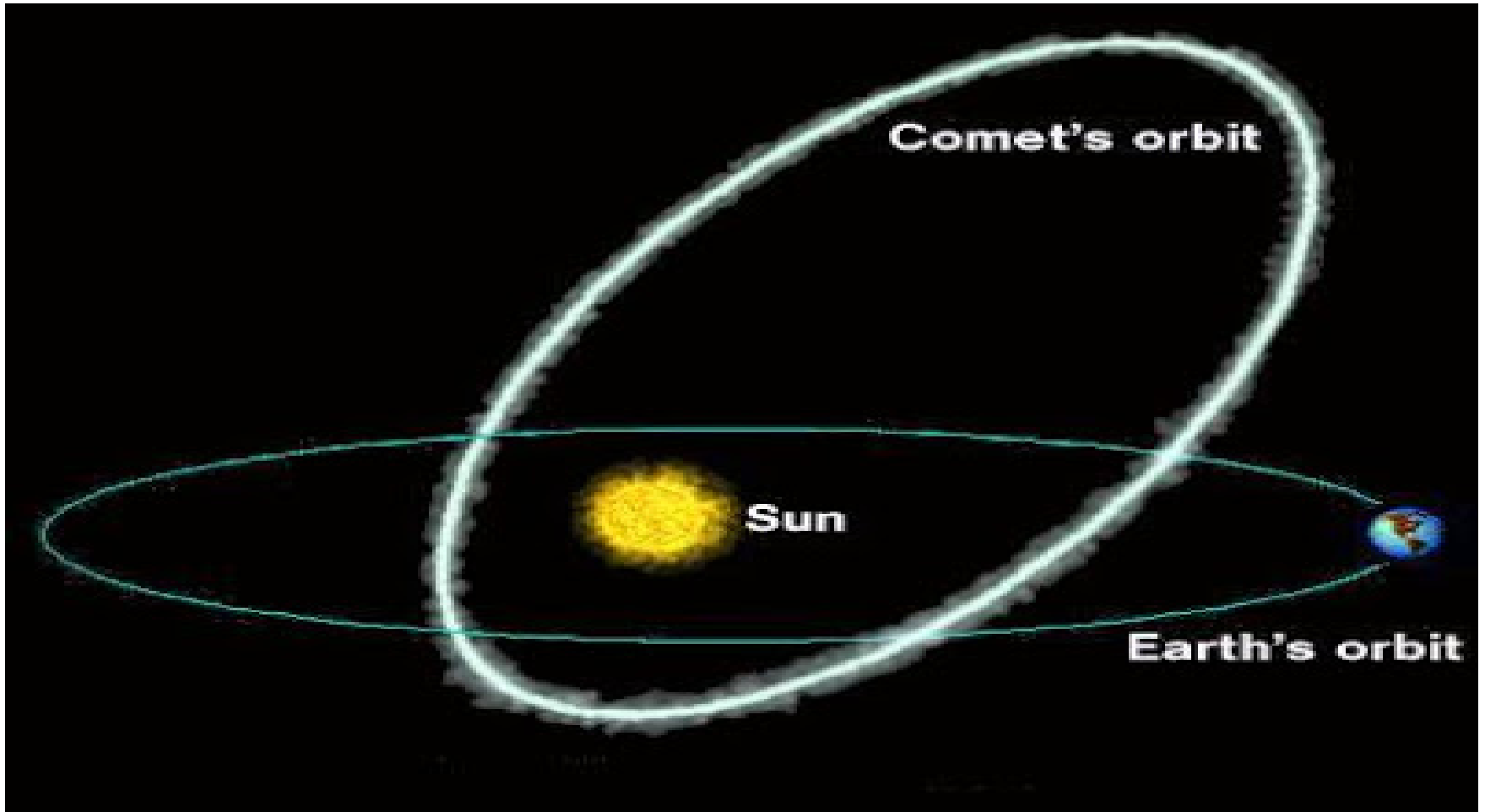
orbit

The path an object takes as it revolves around another object.

Planets in our solar system

orbit the Sun.

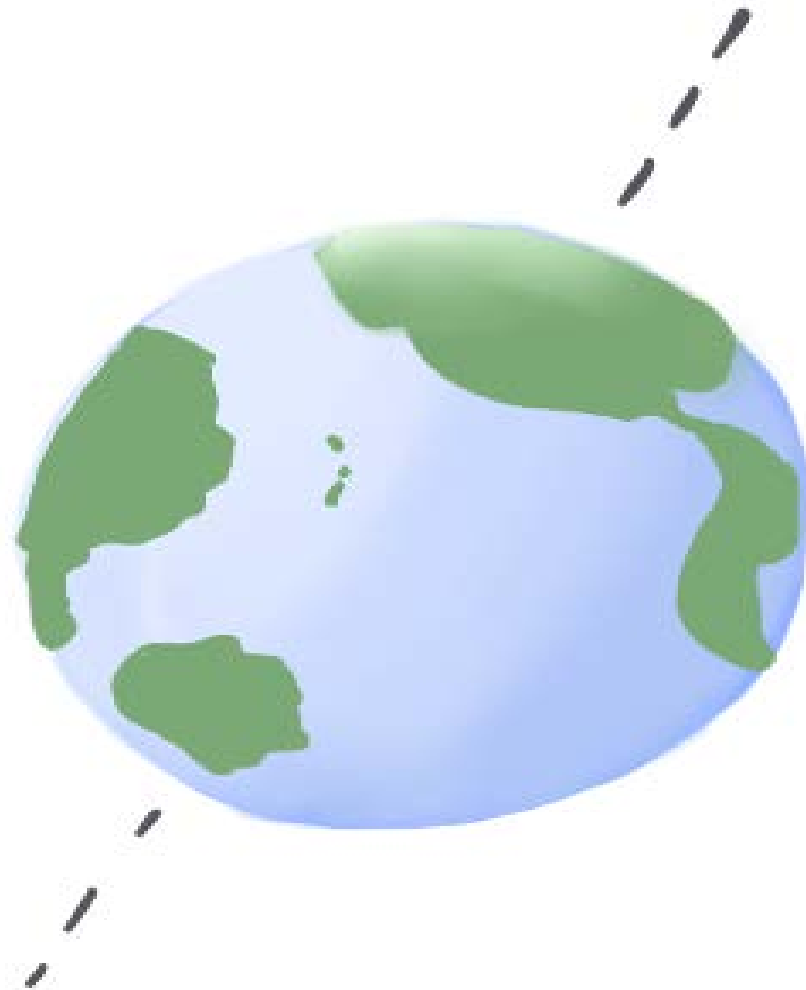
orbit



axis

A slightly tilted, imaginary rod that runs between the north and south poles. As the Earth revolves around the sun, it is rotating on its axis.

axis

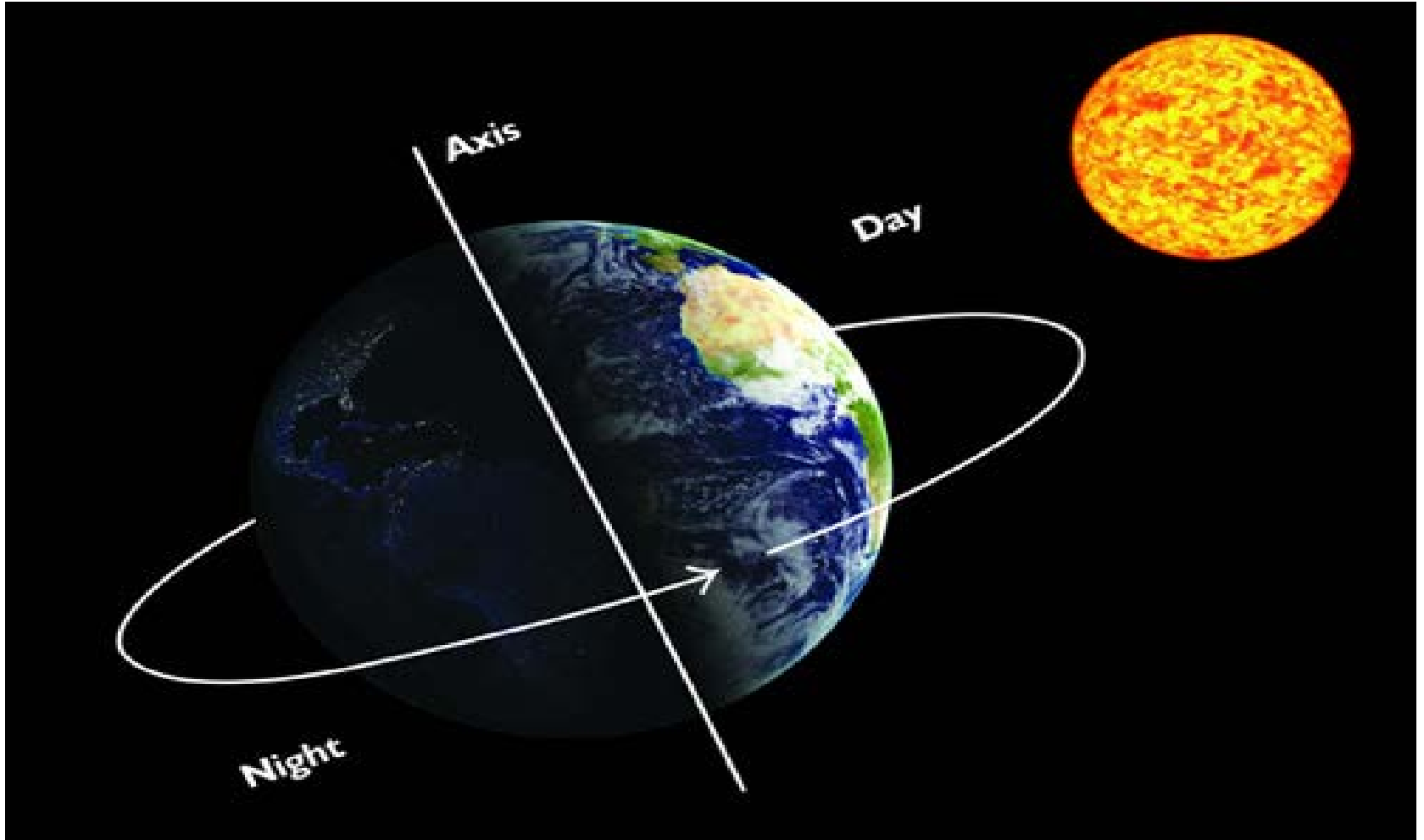


rotate/rotation

To spin around.

*The Earth rotates
on its axis.*

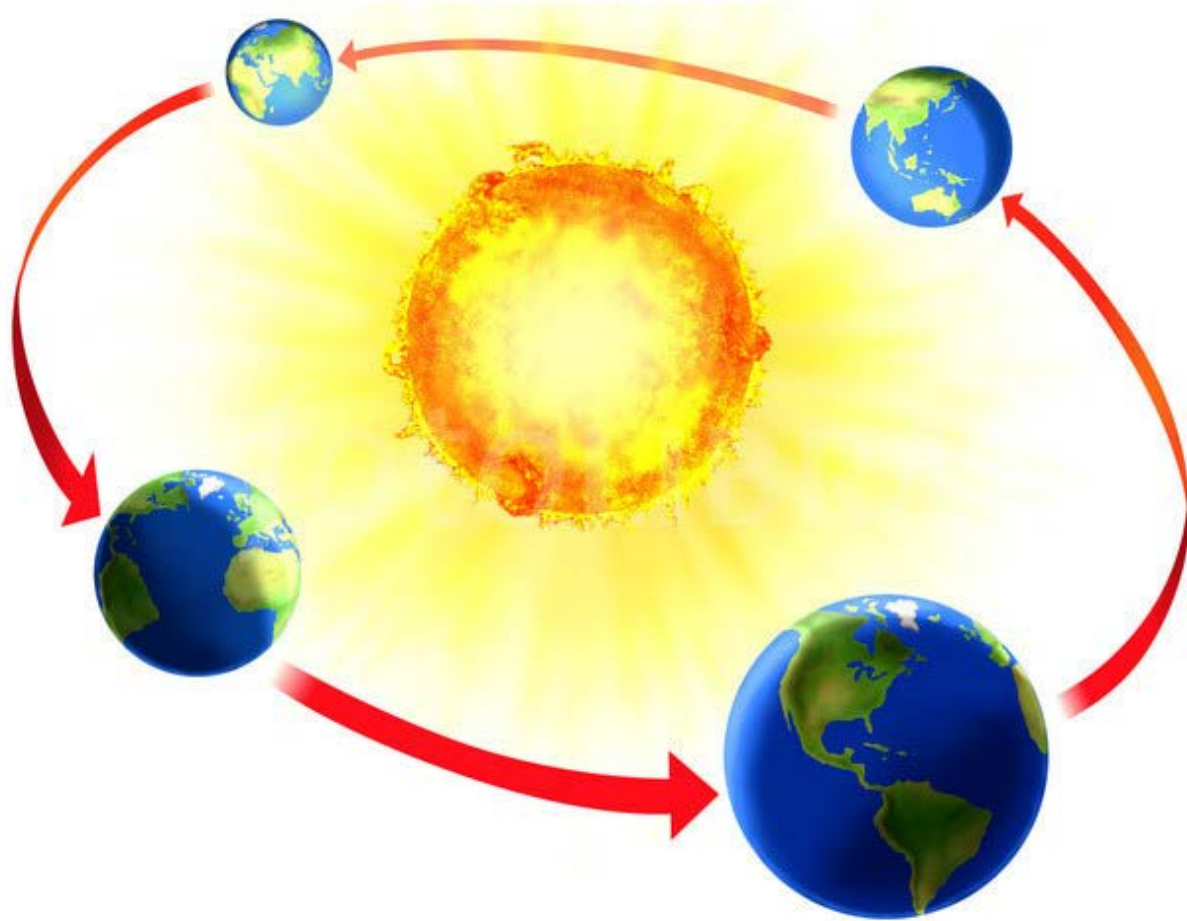
rotate/rotation



revolve/revolution

*To revolve is
the same
as orbit.*

revolve/revolution



patterns

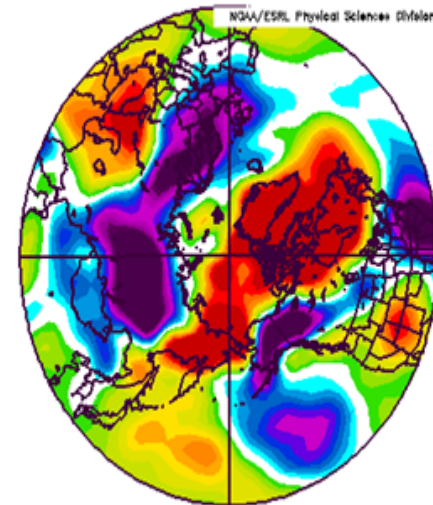
***An arrangement
of repeating
parts.***

patterns



Warm Arctic – Cold Continent Climate Pattern

NCEP/NCAR Reanalysis
1000mb air (C) Composite Anomaly 1968–1996 climo
NOAA/ESRL Physical Sciences Division



Dec 2010

December 2010

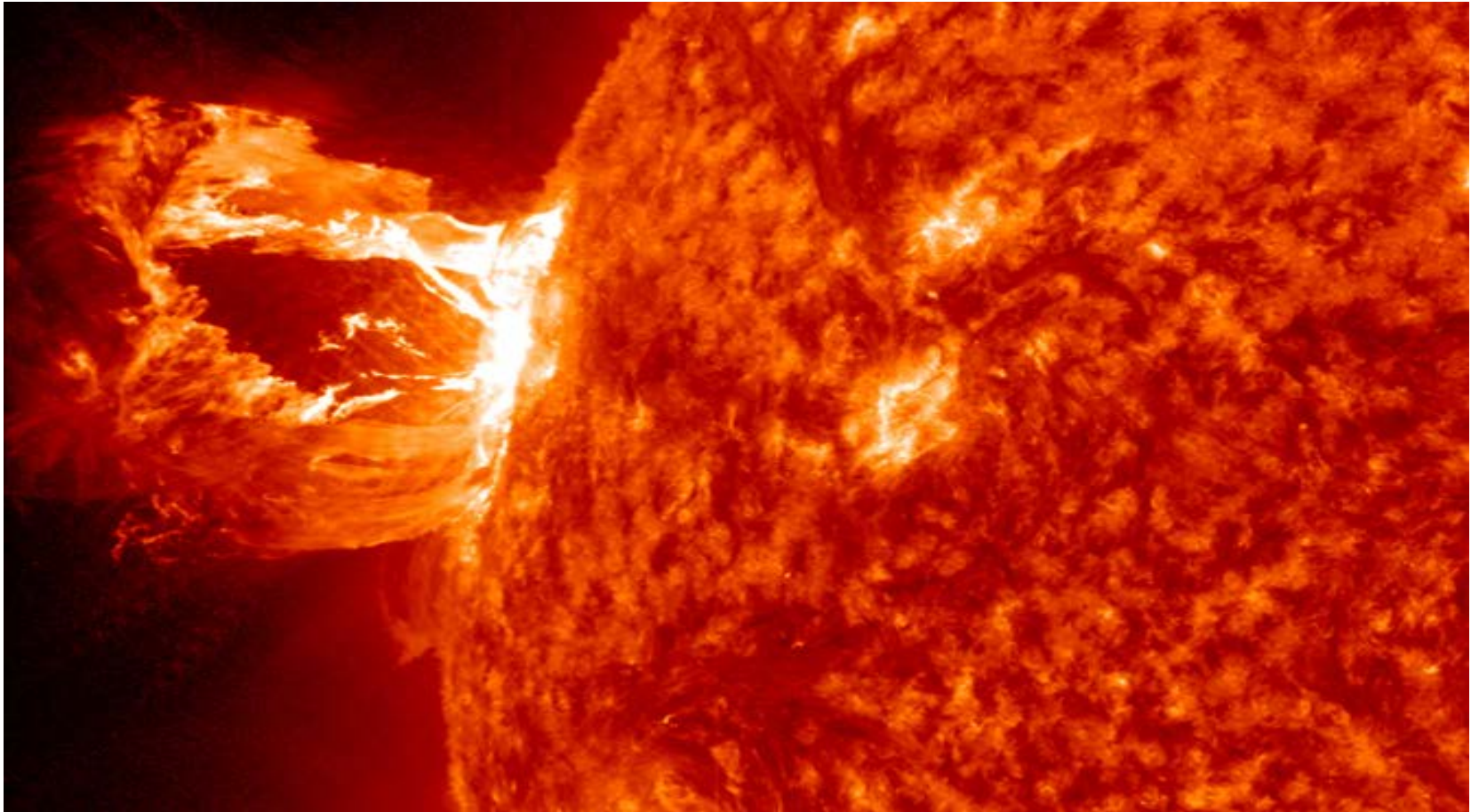
1000 mb Air Temperature Anomalies (1968-1996) (°C)

From NOAA/ESRL Physical Sciences Division

solar flare

**A burst of gases
and heat that
erupts from the
sun's surface.**

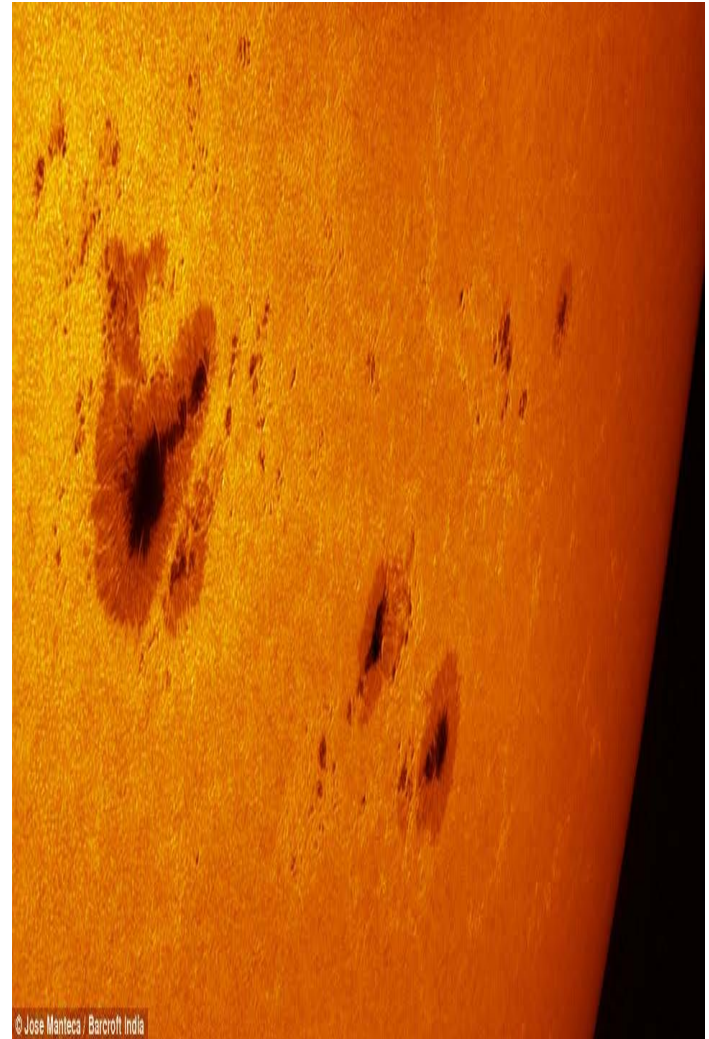
solar flare



sun spots

Dark, cool spots on the sun's surface where visible evidence of solar flares can be seen.

sun spot



shadows

Created when an
object blocks the
sun's light.

shadows



tides

It is the wax (rise) and wane (fall) of the ocean's level, created by the moon's gravitational force.

tides



HIGH TIDE

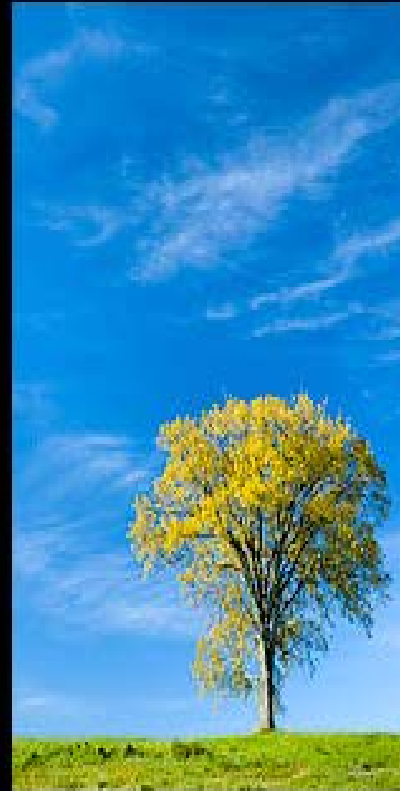


LOW TIDE

seasons

A cycle that creates four different periods of the year each with specific conditions of weather, temperature, and visible changes in the environment. They're called spring, summer, autumn/fall, and winter.

seasons



THE FOUR SEASONS

TREVOR MORRIS PHOTOGRAPHICS