Traditionally "New Moon" meant the slight Crescent Moon that is visible just after sunset a few days later. March 20: Full Moon, "Super Moon". The Moon will be opposite the Sun and so will it appear as a full disk and will reflect the most light back on Earth. Since it is opposite the Sun, as the Earth spins the Full Moon rises just as the Sun sets, and it sets just as the Sun rises. The Moon will be near its perigee, so it will be a few percent closer than usual

and will appear about 10% brigher than usual.

March 6: New Moon. The Moon in its monthly orbit around Earth will be between the Earth and the Sun and so it will set with the Sun and not be in the night sky. It will be near the Sun in the daytime sky, but it will not be visible in the Sun's glare. It will be slightly below the ecliptic plane so it will not block the Sun. Traditionally "New Moon" meant the slight Crescent Moon

## March 2019 Night Sky Highlights

Winter Solstice Sun rises in the Southeast and sets in the Southwest. The shortest day of the year. Sun rises due East and sets due West 12 hours later. Days keep lengthening.

Autumn Equinox Sun rises due East and sets due West 12 hours later The days keep shortening.

## The Ecliptic

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Sun and visible planet positions

on March 20, 2019

pinpoint planetarium Globetarium.com

Star finder, celestial sphere,

The best way to understand the night sky is through the classical idea of the ecliptic. Earth and the visible planets orbit the Sun in nearly the same plane (the ecliptic plane), and the Moon orbits fun, Moon, and planets in nearly one line across the sy (the ecliptic). As the Earth rotates daily, the celestial sphere appears to rotate, and the Sun, Moon, and planets rise and set in sequence along the ecliptic. From the perspective of Earth, the Sun and the visible planets appear to move slowly along the ecliptic through the Zodiac constellations that divide it, with the planets' sequence and apparent motion changing based on where they are in their orbits. Uranus and Neptune are also on the ecliptic, but are not visible to the unsided eye, so the are not shown here.

