

The next full moon is Sunday night 9/27/15. Sunset is at 6:38 PM and the full moon rises at 6:27 PM. The moon will be a super moon that is it will be the closest to the earth till next year. It will appear as the largest full moon so far this year. It is also the harvest moon and a blood moon due to a full Lunar Eclipse at 10:11PM.

It hasn't happened in 32 years, and won't for another 18 years: Sunday evening, a total lunar eclipse will coincide with a "Supermoon."

A lunar eclipse occurs when the Earth is between the full moon and the sun. The Earth's shadow covers the moon, which often has a red color, hence the "blood" moon nickname.

Although it's completely in the shadow of Earth, a bit of reddish sunlight still reaches the moon.

"That red light shining onto the moon is sunlight that has skimmed and bent through Earth's atmosphere: that is, from all the sunrises and sunsets that ring the world at any given moment," according to Alan MacRobert of *Sky and Telescope* magazine.

The total eclipse will start at 10:11 p.m. EDT (7:11 p.m. PDT) Sunday evening and will last one hour and 12 minutes. It will be visible across North and South America, Europe, Africa, and parts of West Asia and the eastern Pacific, NASA said.

Weather permitting, folks in the eastern half of North America can watch every stage of the eclipse, from beginning to end of the partial phases, with the moon mostly high in the sky, *Sky and Telescope* reports.

And what does a Supermoon mean? It just means the moon looks a bit bigger than usual since it's a bit closer to the Earth than usual. "Because the orbit of the moon is not a perfect circle, the moon is sometimes closer to the Earth than at other times during its orbit," NASA scientist Noah Petro said in a statement.

"There's no physical difference in the moon," Petro added. "It just appears slightly bigger in the sky. It's not dramatic, but it does look larger." It's about 14% larger than normal, NASA reports.

What is uncommon is for a total lunar eclipse to coincide with a Supermoon. There have been just five such events since 1900 (in 1910, 1928, 1946, 1964 and 1982), NASA said.

This is the last total lunar eclipse visible anywhere on Earth until 2018, according to *Sky and Telescope*. Americans will actually see a total solar eclipse (in Aug. 2017) before the next total lunar eclipse.

This will all take place after the full moon rises. The eclipse starts at 8:40 PM and continues till total eclipse at 10:11PM. The moon then slowly comes out from the earth's shadow and is completely out of the shadow at 12:27AM.

This process is exciting to watch for some of us but for most of us staying out on the water till 12:27AM is not an option.

So I suggest we all watch the event from the comfort of our homes or deck or some other means and not in our Kayaks.

The weather may not cooperate to see this show. As of this evening 9/22/15 the forecast for Sunday night shows partly cloudy skies to become overcast later during the night. Low 51F winds light and variable.