

November 2021
Observing Report



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- New Moon
- Southern Taurids Peak. 5-10/hr. (Sep 7 – Dec 10) From Asteroid 2004 TG₁₀.

Nov 5

- Uranus at opposition. In Aries.
- Dark Sky Club Star Party.
- Ceres passes by Aldebaran (~ 7 arcminutes).



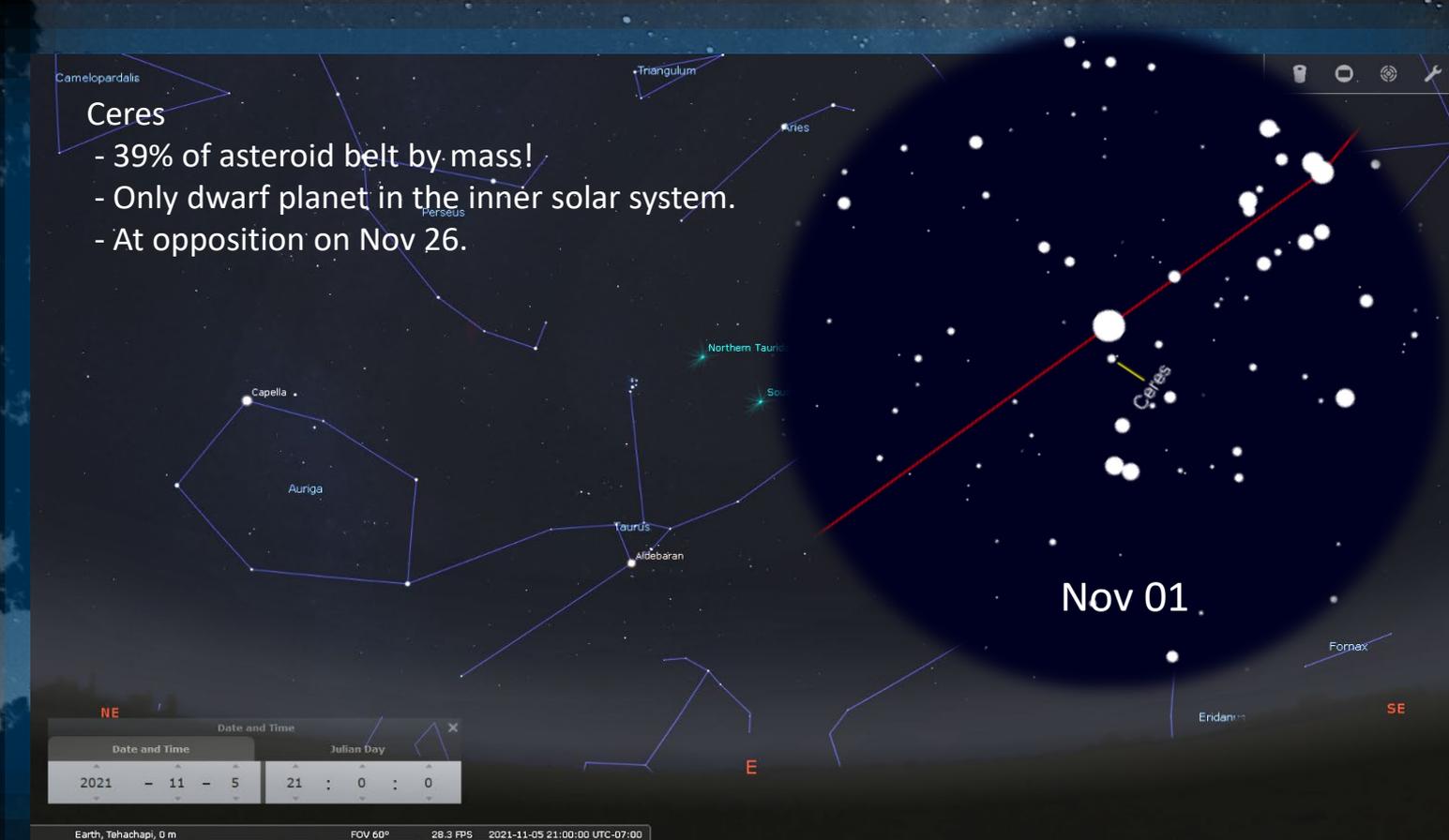
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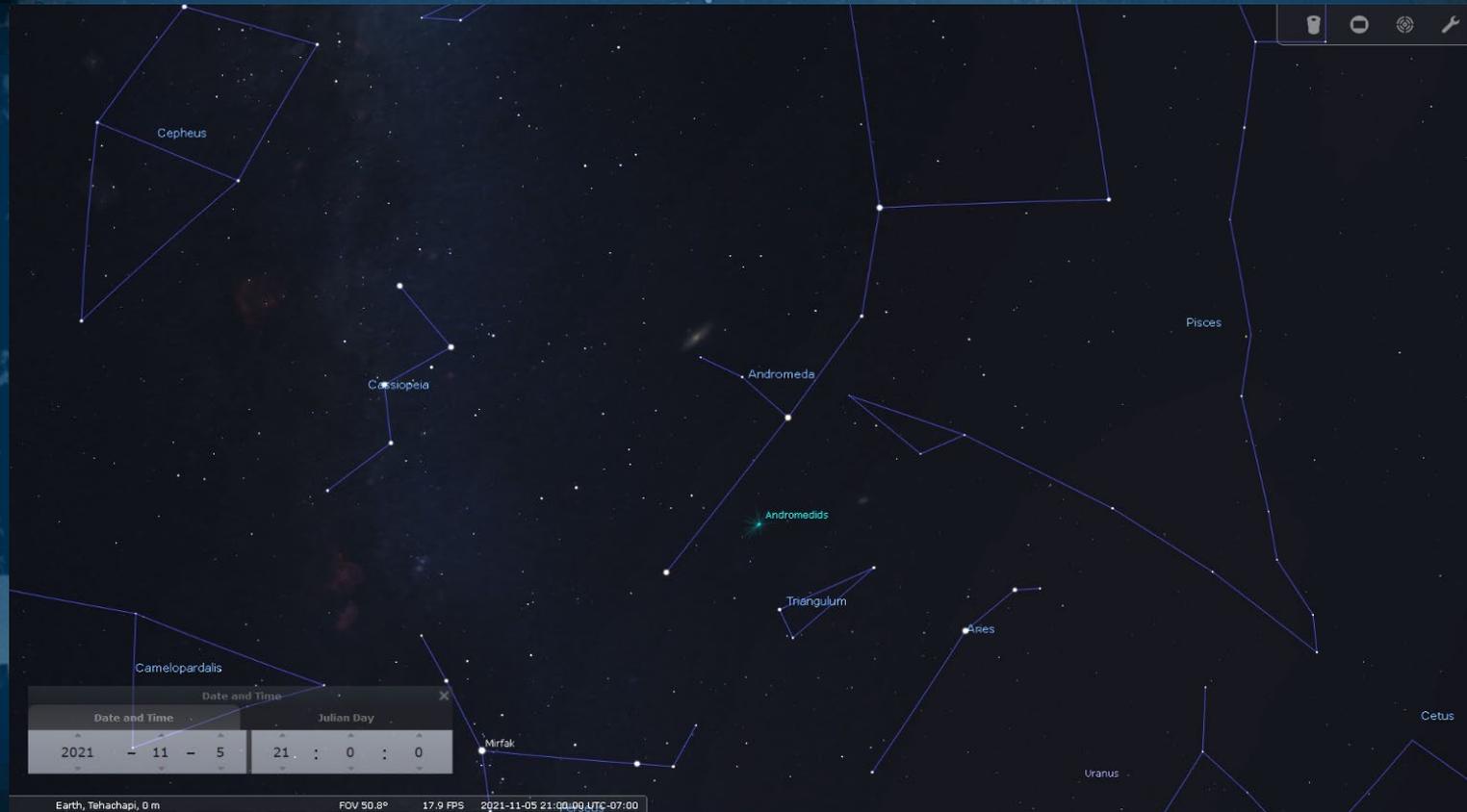
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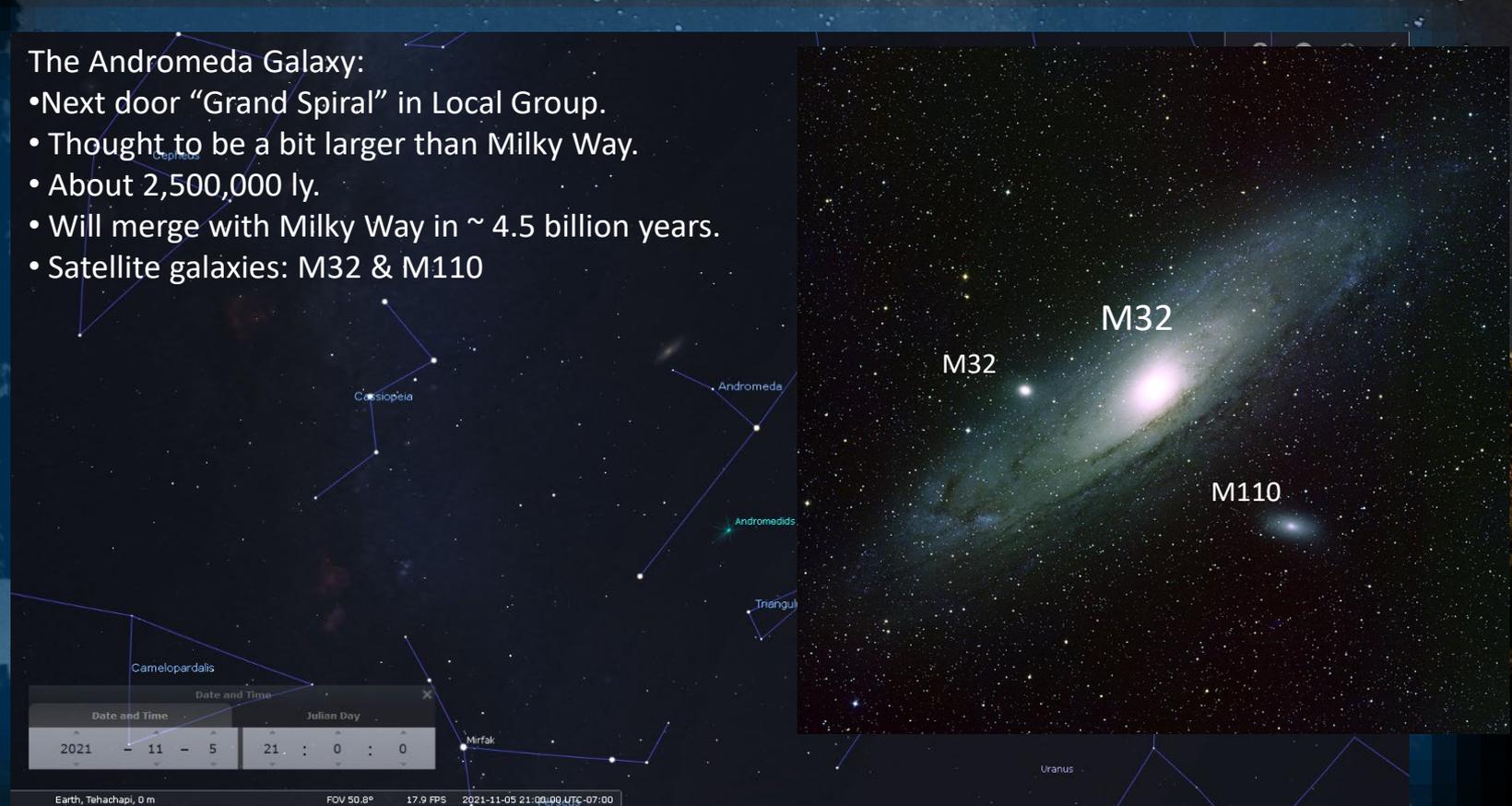
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The Andromeda Galaxy:

- Next door “Grand Spiral” in Local Group.
- Thought to be a bit larger than Milky Way.
- About 2,500,000 ly.
- Will merge with Milky Way in ~ 4.5 billion years.
- Satellite galaxies: M32 & M110



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- Lunar Occultation of Venus only visible in eastern Asia.
- End of Daylight Savings Time. (Set clocks back one hour.)

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- Moon will pass 4°06' south of Saturn.

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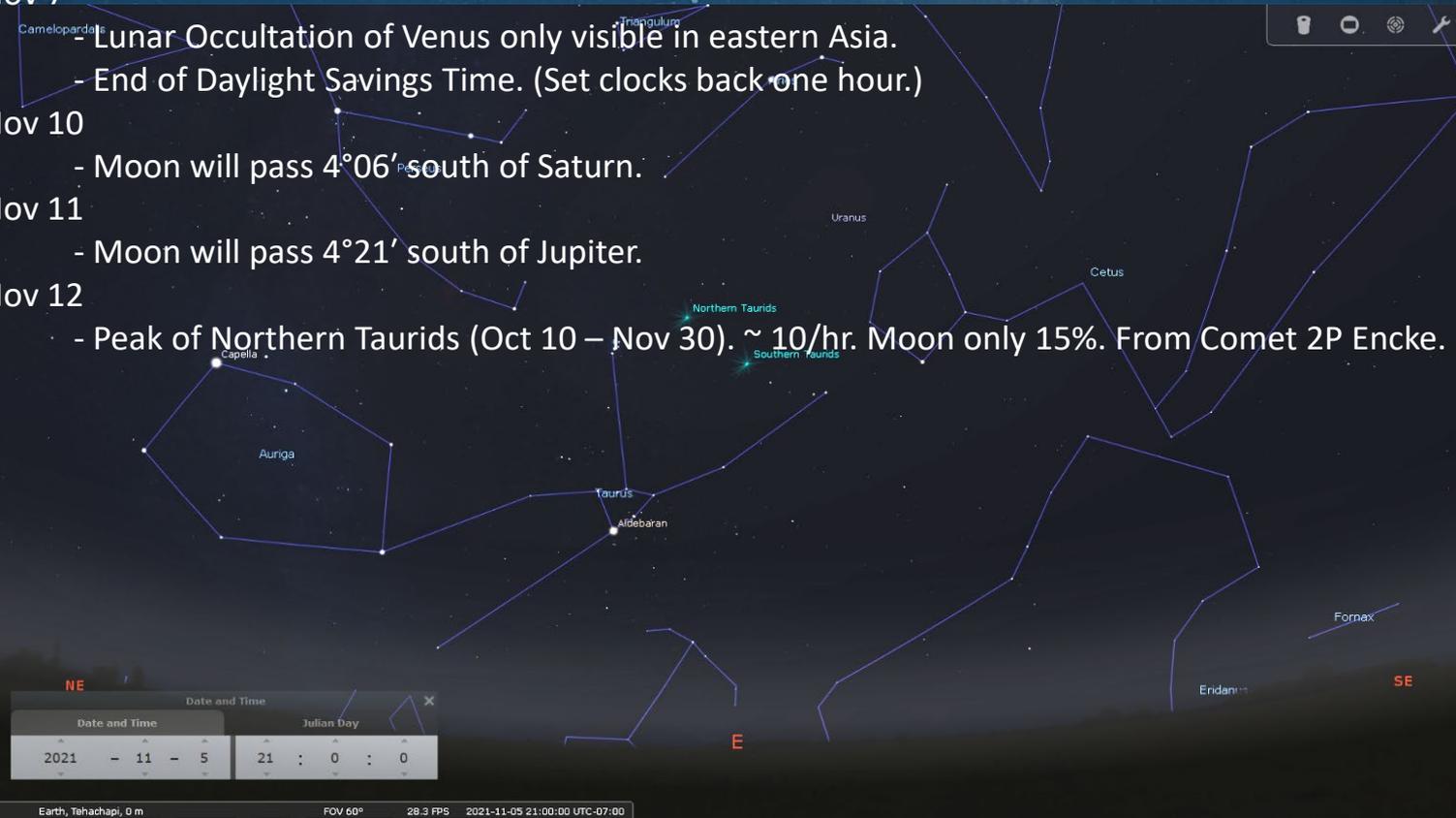
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Mars
Mercury

E

SE

Date and Time

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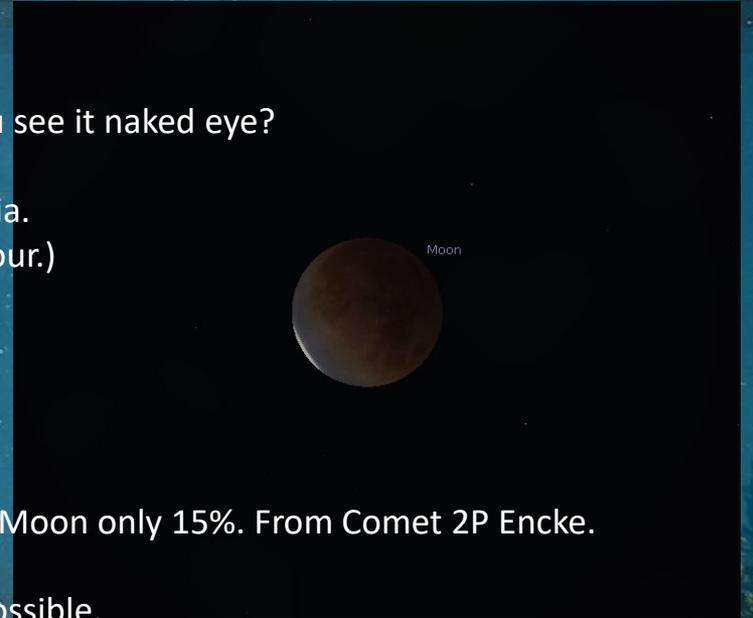
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Nov 18-19

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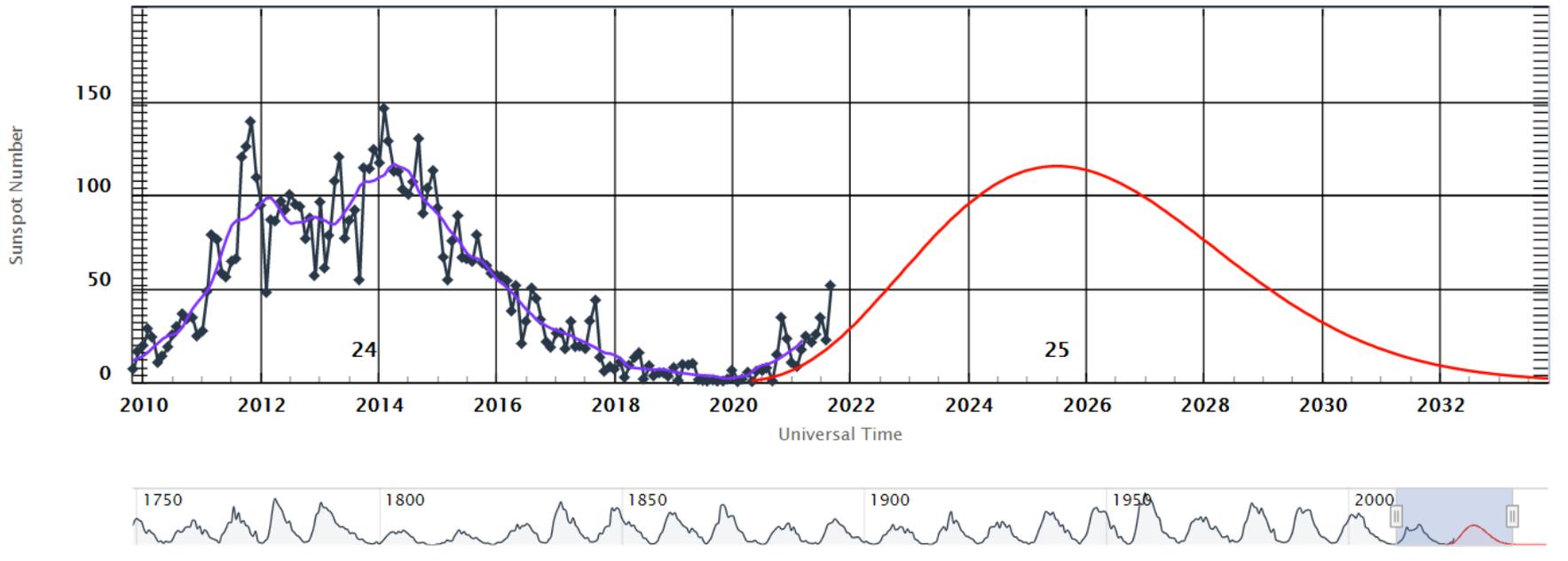
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Nov 28

- Peak of Northern Orionids. Only ~ 3/hr. (Nov 13 – Dec 6) Not to be confused with the much more prominent October Orionids.

Solar Activity

- Solar activity is picking up.
- Cycle 25 started 2020 with Solar Max expected in 2024 - 2025.
- Diagnostics continue to look like a repeat of cycle 24. Expect weak maximum.
- Most activity so far has been in the Sun's southern Hemisphere.

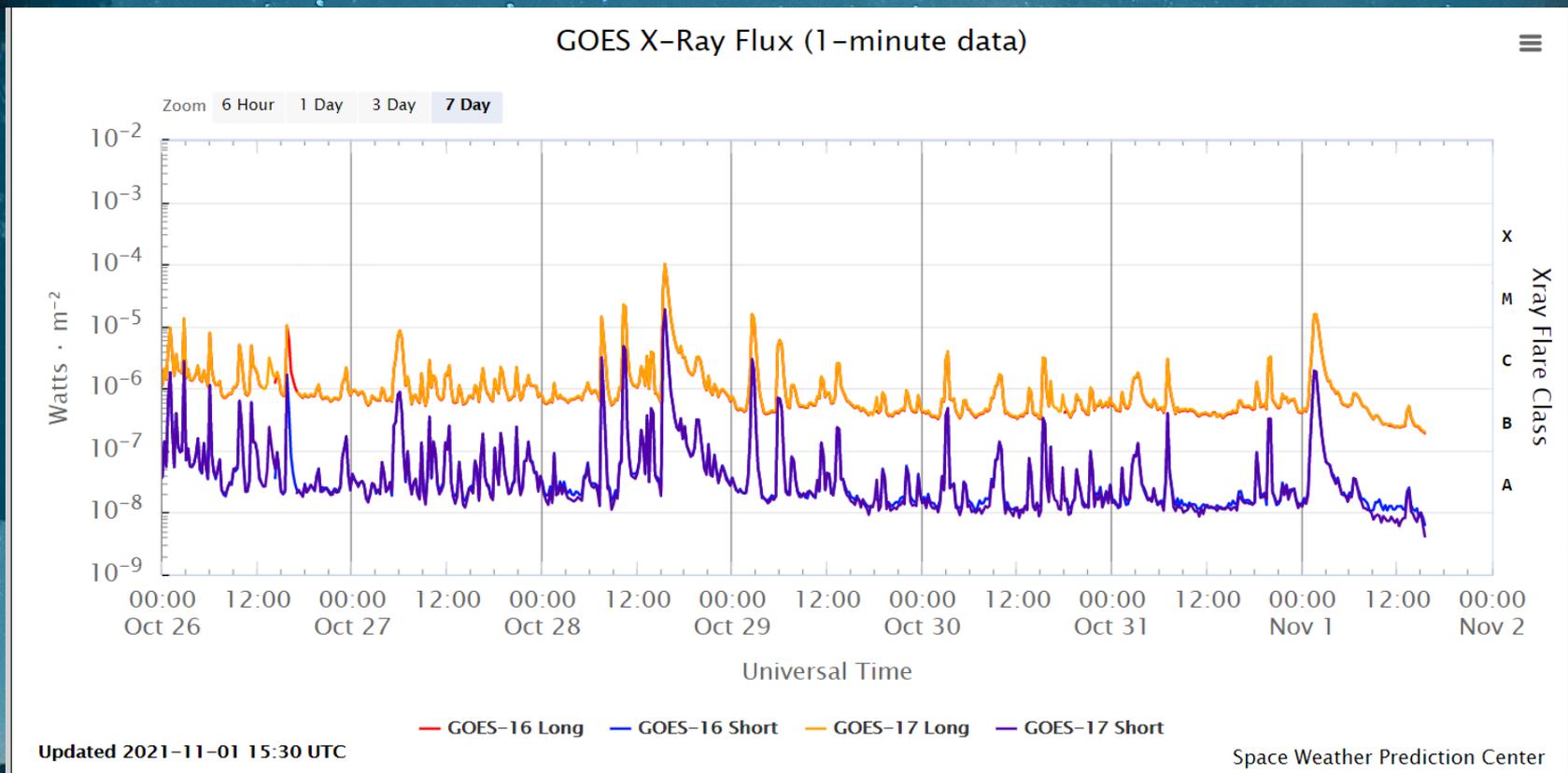


Dalton Minimum

NOAA/SWPC

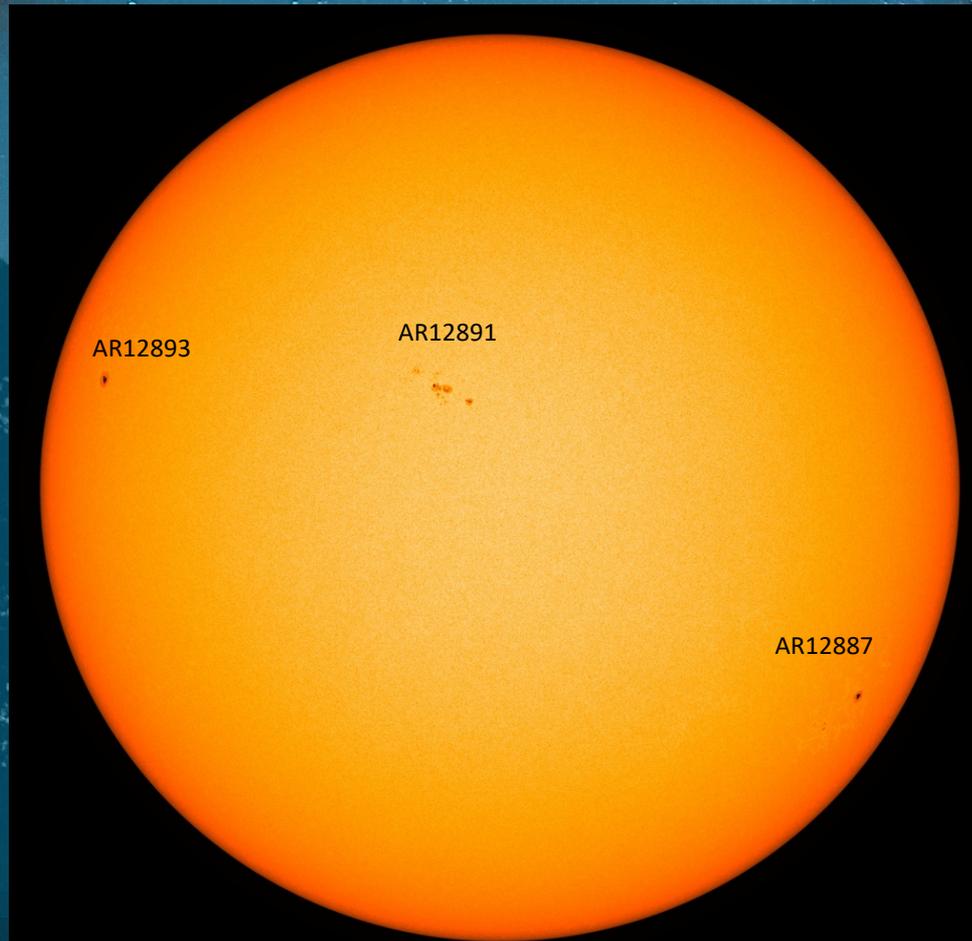
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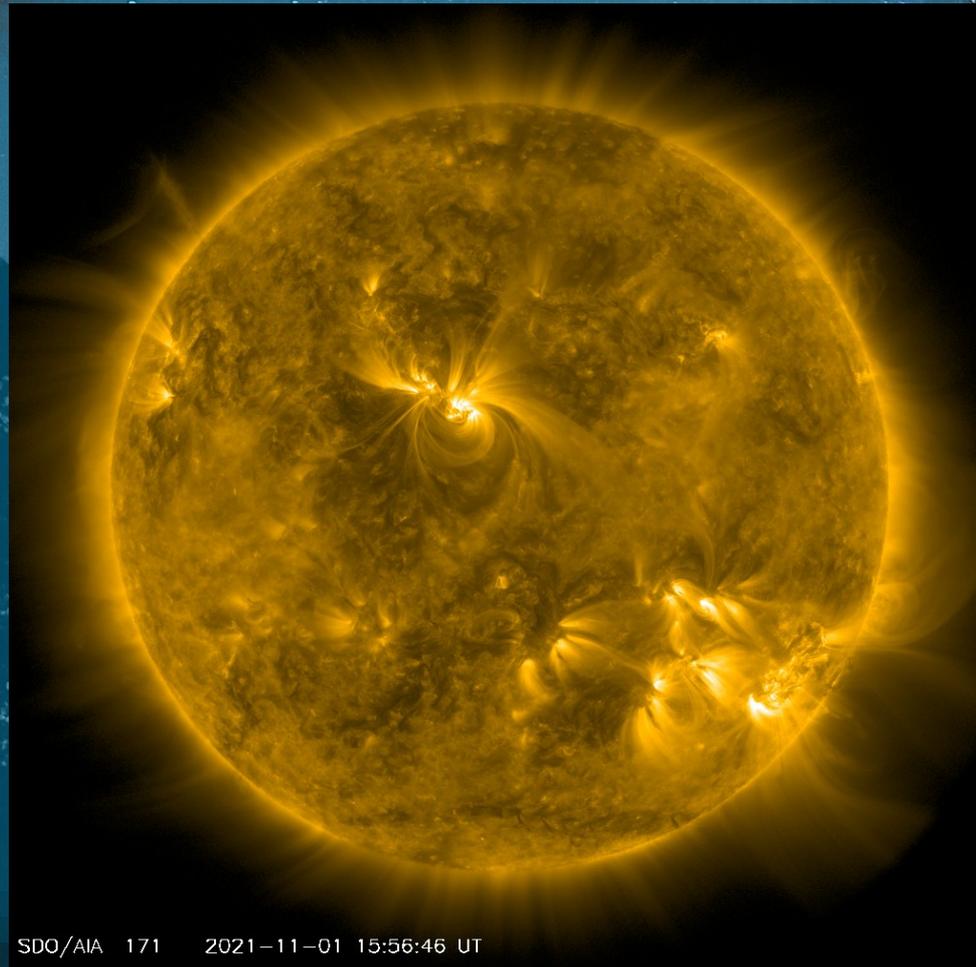
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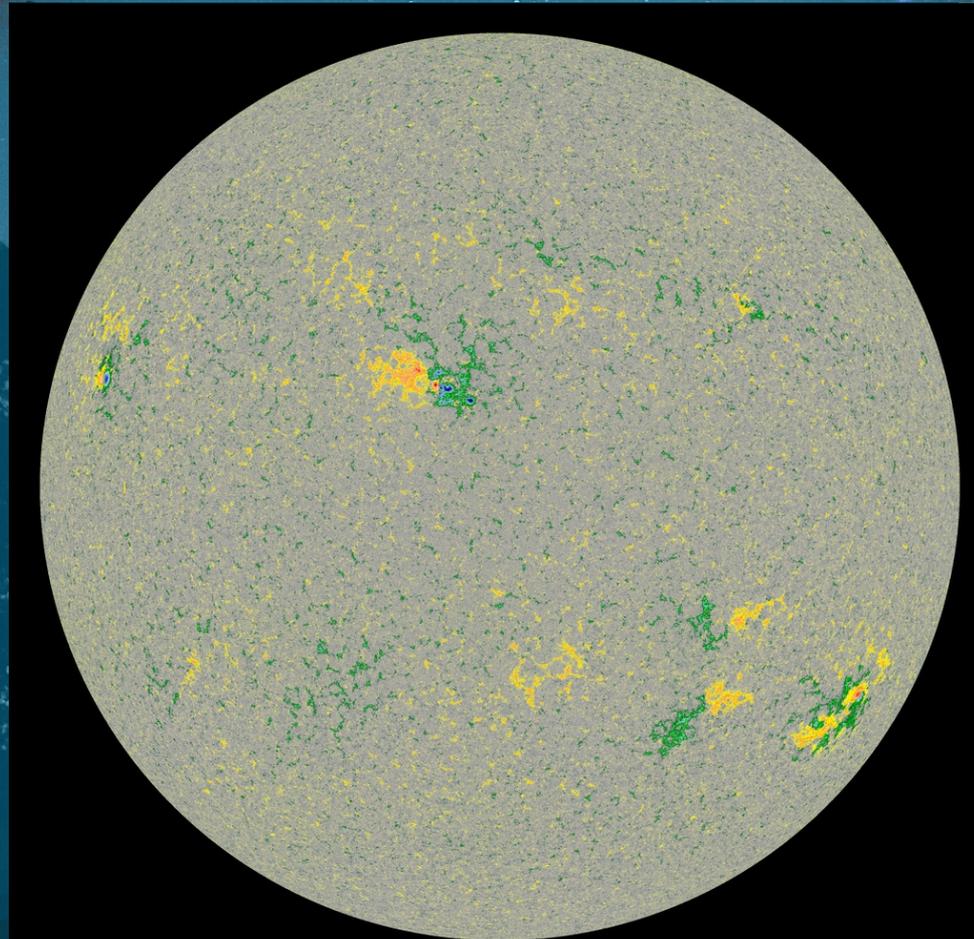


SDO (Solar Dynamics Observatory) Atmospheric Imaging Assembly (AIA).

The 171 Å bandpass is sensitive to the Fe IX at a characteristic temperature of $\sim 600,000$ Kelvin.

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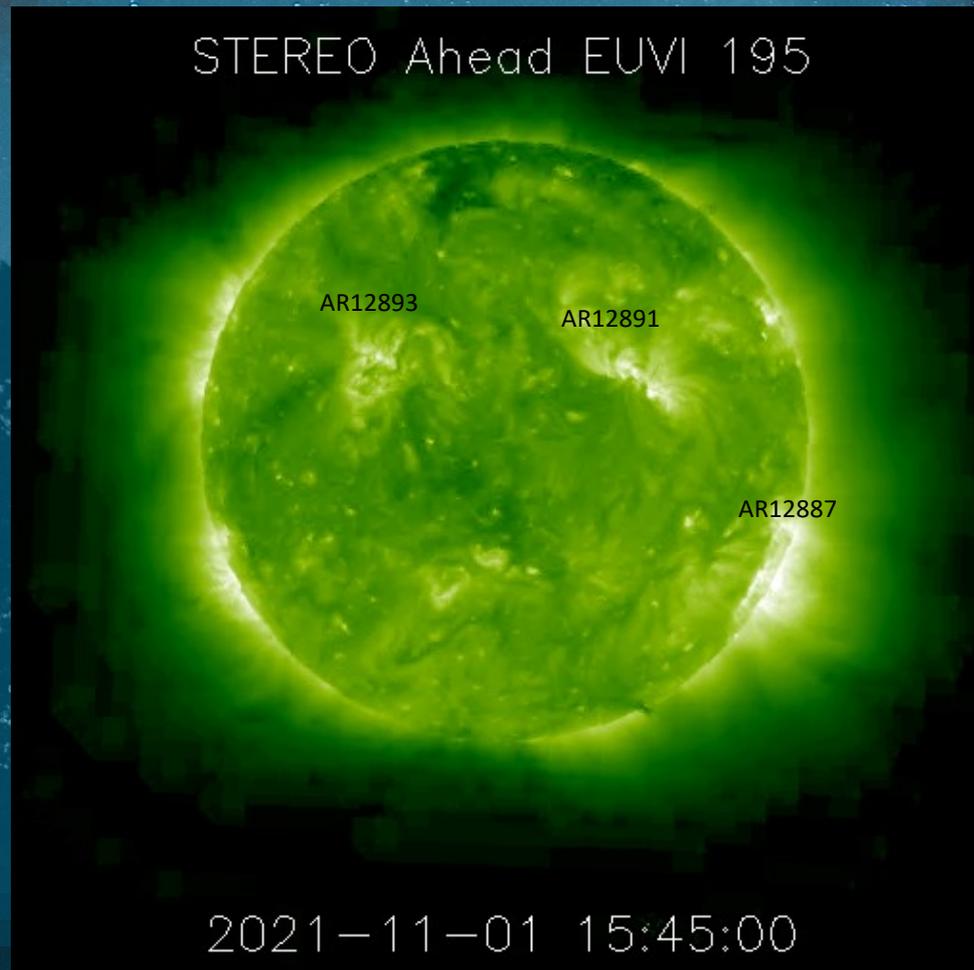


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NASA/SDO/HMI/Magnetogram

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STEREO (Solar Terrestrial Relations Observatory) SECCHI (Sun Earth Connection Coronal and Heliospheric Investigation) Extreme Ultraviolet Imager (EUVI) on the STEREO Ahead.

The 195 Å bandpass is sensitive to the Fe XII at a characteristic temperature of ~ 1.4 million Kelvin.

Bear Valley Springs



Astronomy Club

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