

SDO's crazy-looking Sun due to syzygy

4 April 2011, By Nancy Atkinson



This video shows how the alignment works:

Here's a sped-up video of what SDO sees from space:

See more at [SDO's You Tube page](#), and the [SDO website](#).

Provided by Universe Today

The Sun, as seen by the Solar Dynamics Observatory during an 'eclipse' spacecraft slips behind Earth. Credit: NASA/SDO

It looks like something is eating the Sun in recent pictures from the Solar Dynamics Observatory - and in recent SDO videos, the Sun suddenly disappears! What is going on? Could it be aliens, Planet X, or the Great Galactic Ghoul?

Nope, just orbital mechanics and syzygy (an alignment of three celestial objects). At this time of year the Sun, Earth, and the SDO spacecraft in geosynchronous orbit line up, creating syzygentially spectacular Sun-Earth eclipses. The folks from SDO explain it this way:

"Twice a year, SDO enters an eclipse season where the spacecraft slips behind Earth for up to 72 minutes a day. Unlike the crisp shadow one sees on the sun during a lunar eclipse, Earth's shadow has a variegated edge due to its atmosphere, which blocks the sun light to different degrees depending on its density. Also, light from brighter spots on the [sun](#) may make it through, which is why some solar features extend low into Earth's shadow."

APA citation: SDO's crazy-looking Sun due to syzygy (2011, April 4) retrieved 20 September 2019 from <https://phys.org/news/2011-04-sdo-crazy-looking-sun-due-syzygy.html>

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