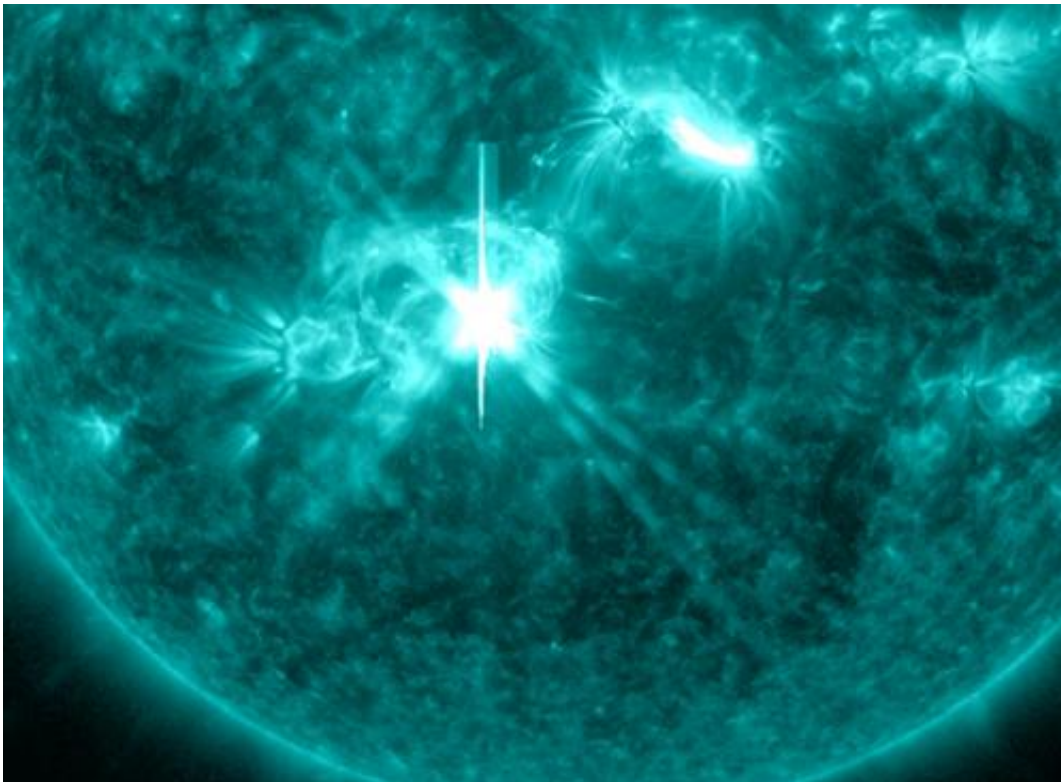


# NASA's SDO sees sun emit a mid-level solar flare

October 24 2013

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NASA's Solar Dynamics Observatory or SDO, captured this image on the sun of an M9.4-class solar flare, which peaked at 8:30 pm EDT on Oct. 23, 2013. The image displays light in the wavelength of 131 Angstroms, which is good for viewing the intense heat of a solar flare and typically colored teal. Credit: NASA SDO

The sun emitted a mid-level solar flare that peaked at 8:30 pm EDT on

Oct. 23, 2013. Solar flares are powerful bursts of radiation. Harmful radiation from a flare cannot pass through Earth's atmosphere to physically affect humans on the ground, however—when intense enough—they can disturb the atmosphere in the layer where GPS and communications signals travel. Such radiation can disrupt radio signals for as long as the flare is ongoing, anywhere from minutes to hours.

To see how this event may impact Earth, please visit NOAA's Space Weather Prediction Center at <http://spaceweather.gov>, the U.S. government's official source for space weather forecasts, alerts, watches and warnings.

This flare is classified as an M9.4 flare, on a scale from M1 to M9.9. This rating puts it at the very top of the scale for M class [flares](#), which are the weakest flares that can cause some [space weather](#) effects near Earth. In the past, they have caused brief radio blackouts at the poles. The next highest level is X-class, which denotes the most intense flares.

Increased numbers of flares are quite common at the moment, since the sun is near solar maximum. Humans have tracked solar cycles continuously since they were discovered in 1843, and it is normal for there to be many flares a day during the sun's peak activity.

Provided by NASA's Goddard Space Flight Center

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