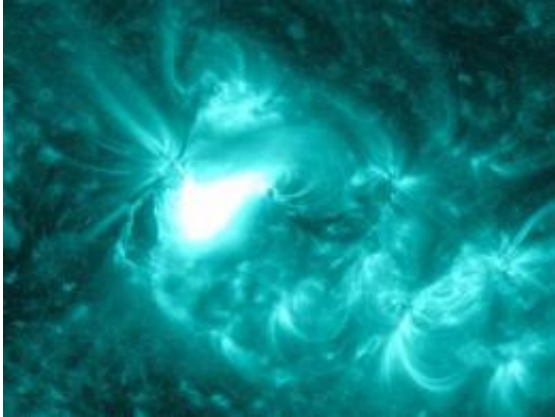


# New solar active region spitting out flares

June 14 2012

---



The Solar Dynamics Observatory captured this image of an M1.2 class flare on June 13, 2012. The sun is shown here in teal as this is the color typically used to represent light in the 131 Angstrom wavelength, a wavelength particularly good for observing flares. Credit: NASA/SDO

An active region on the sun, numbered AR 1504, rotated into view over the left side of the sun on June 10, 2012. The region fired off two M-class flares and two coronal mass ejections (CMEs) on June 13 and June 14, 2012. The first flare lasted for a relatively long three hours, peaking on June 13, 2012 at 9:17 AM EDT. The associated CME traveled at approximately 375 miles per second and is directed toward Earth, though due to its slow speed, the effect on Earth is expected to be minimal.

The second M-class flare was also a long-duration flare, and it peaked on June 14, 2012 at 10:08 AM EDT. The CME associated with this flare is

traveling much faster – preliminary analysis at Goddard's Space Weather Center indicates it is traveling at speeds of approximately 800 miles per second. It is traveling toward [Earth](#), and could also impact Mars and the Spitzer spacecraft.

The Space Weather Center models estimate that both CMEs will arrive on June 16.

Provided by NASA's Goddard Space Flight Center

Citation: New solar active region spitting out flares (2012, June 14) retrieved 12 September 2024 from <https://phys.org/news/2012-06-solar-region-flares.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.