

When energy is released from the coronal magnetic field during a solar flare, a large fraction of it ends up in the Sun's lower atmosphere - primarily the chromosphere, but ...

Fig. 1. a) AIA 304 image showing the positions of the dark filaments before the flare, "f1" and "f2"; b) snapshot of the flare event SOL2011-09-06T22:20 in the AIA 131 filter before the ...

Solar flares release most of their luminous energy in the chromosphere. These luminous signatures, known as flare ribbons, act as the footprints of the released energy and ...

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This Letter reports two rarely observed three-ribbon flares (M1.9 and C9.2) on 2012 July 6 in NOAA AR 11515, which we found with H α observations of 0.1'' resolution from the New Solar Telescope ...

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CORVALLIS -- A phenomenon, likened to the quick-footed movements of iconic cartoon predator Wile E. Coyote, recently proved a 19-year-old theory regarding how solar ...

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There are many types of solar flare, but the classic type is a two-ribbon flare with three phases -- a preflare

phase, a rise phase and a main phase. The properties of these ...

This circumstance can make the MI flares more impulsive. bly, in the large-scale two-ribbon flares with observed decrease of footpoint separation, like the Bastille-day flare, the ...

We present a database of 3137 solar flare ribbon events corresponding to every flare of GOES class C1.0 and greater within 45 degrees from the disk center, from April 2010 ...

Abstract: The relations among solar proton event,solar flares and coronal mass ejection (CME) events were analyzed These solar events were recorded from 1991 to 1995 ...

Recent Space Observations of Solar Flares and Coronal Mass Ejections - Yohkoh, SOHO, TRACE increasing evidence of magnetic reconnection and plasmoid ejections (long ...

Example of O IV Doppler shift maps for two rasters during the 2015 June 22 flare (FL2). The green, yellow, and black contours show the location of the ribbon leading edge pixels, the maximum O IV ...

The solar eruptive events and their origin are important in the context of forecasting their occurrence and their effects on the space and the earth. In this paper, a set of ...

Spectral lines formed at lower atmospheric layers show peculiar profiles at the "leading edge" of ribbons during solar flares. In particular, increased absorption of the BBSO/GST He i l 10830 line, as well as broad ...

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