

## Viewing archive of Monday, 2 April 2001

### Solar activity report

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Report of Solar-Geophysical Activity 2001 Apr 02 2200 UTC  
Prepared by the NOAA © SWPC and processed by SpaceWeatherLive.com

### Joint USAF/NOAA Report of Solar and Geophysical Activity

SDF Number 092 Issued at 2200Z on 02 Apr 2001

#### IA. Analysis of Solar Active Regions and Activity from 01-2100Z to 02-2100Z

Solar activity has been high. A pair of Class X flares occurred at 02/1004 UTC and 02/1058 UTC. The first was in Region 9393, now at N16W69. The second was likely in Region 9393 but it may have been near the southeast limb. A coronal mass ejection extending 180 degrees in longitude along the west limb occurred more-or-less in conjunction with the x-ray events. Region 9393 is little changed in appearance as it begins to rotate from view over the limb although its apparent area is decreasing. Sunspots have rotated into view at S21E58 (Region 9414) but so far the spots appear to be simply structured. As the region becomes more visible, further information about its structure will be available.

#### IB. Solar Activity Forecast

Solar activity is expected to be moderate to high. The possibility of major flares remains high in Region 9393.

#### IIA. Geophysical Activity Summary 01-2100Z to 02-2100Z

The geomagnetic field has been mostly active. A very small proton enhancement of >10 MeV and >100 MeV particles occurred beginning at about 02/1000 UTC. Fluxes have become constant at less than event thresholds.

#### IIB. Geophysical Activity Forecast

Geomagnetic activity is expected to be at unsettled to minor storm levels. The possibility remains of a proton event if further major events occur in Region 9393

#### III. Event Probabilities 03 Apr to 05 Apr

Class M	80%	75%	75%
Class X	35%	30%	30%
Proton	30%	30%	30%
PCAF	green		

#### IV. Penticton 10.7 cm Flux

Observed	02 Apr	228
Predicted	03 Apr-05 Apr	220/210/200
90 Day Mean	02 Apr	166

#### V. Geomagnetic A Indices

Observed	Afr/Ap	01 Apr	026/030
Estimated	Afr/Ap	02 Apr	020/020
Predicted	Afr/Ap	03 Apr-05 Apr	030/025-035/040-025/025



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## Real-time auroral and solar activity

Active	28%	28%	33%
Minor storm	18%	15%	12%
Major-severe storm	08%	08%	08%

### B. High Latitudes

Active	28%	28%	28%
Minor storm	18%	25%	20%
Major-severe storm	08%	08%	08%

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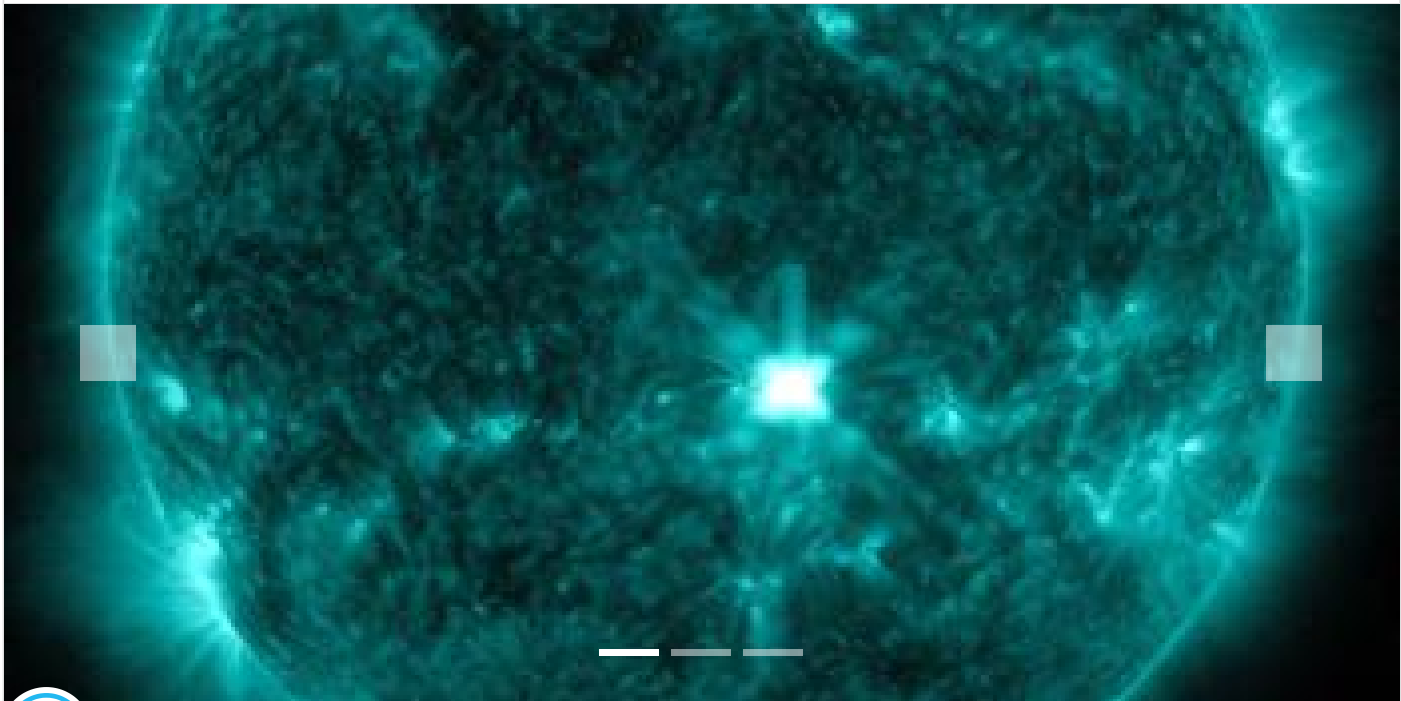
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[Back to top](#) ^

The maximum X-ray flux of the past two hours is:

C7.29

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