

NNNNUUUV
PP KGFF
DE BOU 021730Z
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 249A ISSUED 1700Z 02 MAY 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 6 HOURS

A. HIGHLIGHTS FOR THE PERIOD 24 APRIL TO 01/1900Z MAY 1969 CLN
ONLY FOUR SIGNIFICANT SOLAR EVENTS WERE OBSERVED DURING THE
PERIOD. ON 24 APRIL A REGION IN THE NORTHWEST N23L068 PRODUCED
A SMALL CLASS X EVENT /24/0309Z, IMPORTANCE 2B/. FOLLOWING
WEST LIMB PASSAGE OF THIS REGION ACTIVITY DECLINED TO A LOW
LEVEL. A REGION CURRENTLY NEAR N08W21 /L275/ PRODUCED A SMALL
CLASS M EVENT AT 24/1214Z /IMP 1N/ AND A LARGE CLASS M EVENT
AT 26/2302Z /IMPORTANCE 2B/. AN IMPORTANCE 2N FLARE AT 30/1437Z
IN A REGION NEAR N13W44 /L298/ WAS marginally CLASS M BASED ON
RADIO DATA. A FORBUSH DECREASE BEGAN ABOUT 28/0400Z, REACHED
6 PERCENT BY 28/2330Z, AND ENDED ABOUT 29/1600Z. NO PROTON
EVENTS WERE DETECTED BY EITHER SATELLITES OR GROUND-BASED SENSORS.
ON 01 MAY, A RETURNING REGION BEGAN TO CROSS THE EAST LIMB
NEAR S11 /L175/. CURRENTLY ONLY AN H-TYPE SPOT AND RELATIVELY
UNIMPRESSIVE PLAGE ARE VISIBLE, BUT OBSERVATIONS OF CORONAL RAIN
IN THIS VICINITY INDICATE THAT A MAJOR REGION MAY BE NEARING
EAST LIMB TRANSIT. A MINOR GEOMAGNETIC STORM BEGAN WITH A SUDDEN
COMMENCEMENT AT 28/0252Z. ALTHOUGH THE STORM WAS OFFICIALLY
ENDED AT 29/0900Z, THE GEOMAGNETIC FIELD REMAINED SLIGHTLY TO
MODERATELY DISTURBED THROUGH 30 APRIL.

B. FORECAST FOR THE WEEK 03-09 MAY 1969 CLN

SPORADIC ACTIVITY IS EXPECTED FROM THE N08 /L275/ REGION UNTIL
WEST LIMB PASSAGE ON 07 MAY. SUCH ACTIVITY MAY BE LARGE OPTICALLY
BUT IS NOT EXPECTED TO BE ENERGETIC. ACTIVITY IS EXPECTED FROM THE
S11 /L175/ REGION. MAJOR ACTIVITY IS EXPECTED TO RESUME LATE IN
THE WEEK AS THE N20 /L064/ REGIONS APPROACH EAST LIMB.

28-DAY FORECAST FOR 03-30 MAY 1969 CLN

ACTIVITY IS EXPECTED TO BE ENHANCED DURING THE PERIOD 08-14 MAY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 02/1700Z ENDING 05/1700Z.

CLASS M OR GREATER 80/80/80

CLASS X 10/10/10

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX TODAY IS 126. PREDICTED 125/135/145.

E. N/A.

F. KP ESTIMATED FOR 1200-1500Z WAS 0. KP FORECAST FOR NEXT 24
HOURS PER KP 15.3; 1/1/1/1/1/1/1.

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NNNNUUUV
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DE BOU 022300Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 249B ISSUED 2300Z 02 MAY 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.

A. AN OPTICALLY IMPORTANCE 2B FLARE AT 02/1743Z AT N08W39 WAS CLASSIFIED AS A SMALL CLASS X EVENT WITH A VALUE OF 1.1×10^{-2} ERGS CM⁻² SEC⁻¹. THE 10 CM COMPLEX RADIO BURST WAS 136 F.U. AT 02/1751Z. THIS REGION SHOWS A VERY DARK PENUMBRAL STRUCTURE AND IS MAGNETICALLY A BETA-GAMMA WITH A DELTA CONFIGURATION. SUBFLARE ACTIVITY AND PLAGE FLUCTUATIONS HAVE DECREASED DURING THE PAST 4 HOURS FROM THIS REGION. AN IMPORTANCE 3 SPRAY WAS OBSERVED AT SE21, BEGINNING AT 02/1812Z AND ENDING AT 02/1830Z. ONLY PLAGE WAS OBSERVED THERE WITH NO SPOTS AS OF 02/2200Z. THE REGION AT S11E67 IS THE BRIGHTEST FEATURE ON THE DISK WITH FREQUENT PLAGE FLUCTUATIONS.

B. THE LARGE SPRAY MENTIONED IN PART A. COULD SIGNIFY THE RETURN OF AN ACTIVE REGION AT S21. ACTIVITY SHOULD BE INCREASING DURING THE NEXT 3 DAYS. THE REGION AT N08W43 SHOULD PRODUCE MORE CLASS M ACTIVITY WITHIN 24-48 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 02/2300Z ENDING 05/2300Z.

CLASS M OR GREATER 80/80/,80

CLASS X 10/10/10

PROTON EVENTS 10/10/10

SECTION D REMAINS UNCHANGED FROM SDF 249A.

E. MAGNETIC A-FREDERICKSBURG FOR 01 MAY WAS 10. FOR 02 MAY ABOUT 10. PREDICTED AP FOR 3-5 MAY 20/10/10.

BT