

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 SII /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  
SII /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; 1/1/1/1/1/1/1/1.

SOLTERWARN

BT

NNNNUV  
PP KGFF  
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  $1.1 \times 10^{-2}$  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 MAGNETIC-  
ALLY 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 S21, 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/,<sup>80</sup>

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