

NNNNUUUV  
PP KGFF  
DE BOU 161715Z  
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 233A ISSUED 1700Z 16 APRIL 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

A. A POSSIBLE CLASS M, OPTICALLY IMPORTANCE 1N FLARE, OCCURRED  
AT 15/2345Z AT N20E17. THIS EVENT WAS RESPONSIBLE FOR A MODERATE  
AMOUNT OF X-RAY PRODUCTION IN THE 0.5-5.0 ANGSTROM BANDS. AN  
ADDITIONAL OPTICALLY IMPORTANCE 1N FLARE, CLASS C, WAS OBSERVED  
AT 16/0820Z AT N20E35. AN ACTIVE FILAMENT IS ASSOCIATED WITH THIS  
SPOT GROUP AT N20E35. A NEW D-TYPE SPOT GROUP HAS BEEN OBSERVED  
AT S16E07. THE PROTON EVENT IS STILL IN PROGRESS WITH THE THULE  
RIOMETER SHOWING A 2.5DB ABSORPTION AT THE PRESENT TIME. THE  
GEOMAGNETIC FIELD IS DISTURBED.

B. CLASS M EVENTS ARE EXPECTED FROM THE NE COMPLEX OF SPOT GROUPS.  
THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN DISTURBED FOR THE NEXT  
24 HOURS.

FORECASTS FOR APRIL 17-19

C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

CLASS M OR GREATER 80/80/80

CLASS X 20/20/20

PROTON EVENTS 20/20/20

D. OTTAWA 10.7 CM FLUX TODAY IS 166. PREDICTED 165/160/160.

E. N/A.

F. KP ESTIMATED FOR 1200-1500Z WAS 2. KP FORECAST FOR NEXT 24  
HOURS PER KP 15.3; 2-2-2-2-2-2-2-2-2.

BT

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THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 233B ISSUED 2300Z APRIL 16 1969  
CLASS M FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.  
A. AN IMPORTANCE 1B FLARE OCCURRED AT 16/2036Z AT N18E03 AND WAS  
ACCOMPANIED BY AN IMPORTANCE 1 OR A POSSIBLE IMPORTANCE 2 DSD. THIS  
REGION HAS BEEN ACTIVE THROUGHOUT THE DAY IN TERMS OF SUBFLARES,  
DARK SURGES AND FILAMENT ACTIVITY. THE NEW REGION AT S15E03 HAS  
GROWN IN PLAGE AREA AND SUNSPOTS. MAGNETICALLY, ALL THE REGIONS  
ARE BETA-P WITH THE EXCEPTION OF THE REGIONS AT N22E33 AND S15E31  
WHICH ARE BOTH ALPHA-P. SATELLITE DATA SHOWS CONTINUED HIGH LEVELS  
IN THE 3 TO 20 MEV PROTON COUNTING RATES.  
SECTIONS B C AND D REMAIN UNCHANGED FROM SDF 233A.  
E. MAGNETIC A-FREDERICKSBURG FOR 15 APRIL WAS 12. FOR 16 APRIL  
ABOUT 12. PREDICTED AP FOR 17-19 APRIL 20/15/10.  
BT