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PP KGFF  
DE BOU 251700Z  
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 242A ISSUED 1700Z 25 APRIL 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 6 HOURS

A. HIGHLIGHTS FOR THE PERIOD 17-24/1900Z APRIL 1969 CLN  
ACTIVITY DURING THE PERIOD WAS DOMINATED BY A REGION CURRENTLY  
NEAR N23W75 /L060/. IN ADDITION TO MANY MINOR OPTICAL FLARES  
AND SMALL CLASS M EVENTS, THIS REGION PRODUCED MAJOR OPTICAL  
FLARES AT 21/1959Z /IMPORTANCE 3B, SMALL CLASS X/, 23/0311Z  
/IMPORTANCE 2N, CLASS M, AND 24/0309Z /IMPORTANCE 2B, SMALL  
CLASS X/. THESE FLARES WERE ACCOMPANIED BY X-RAY BURSTS AND  
MODERATE IONOSPHERIC DISTURBANCES, BUT IN COMPARISON TO MANY  
OTHER IMPORTANCE 2 FLARES, THE APPEARED TO PRODUCE FLARES OF  
RELATIVELY LOW TOTAL ENERGY. NO PROTONS WERE DETECTED FOLLOWING  
THE FLARES /DESPITE THE FACT THAT THIS REGION HAS PRODUCED  
PROTON FLARES, AND DESPITE THE FACT THAT THE IMPORTANCE 3 FLARE  
SHOWED UMBRAL COVERAGE/, BUT A SMALL FORBUSH DECREASE /ABOUT 2  
PERCENT/ BEGAN ABOUT 22/0700Z. SATELLITE-BORNE X-RAY DETECTORS  
MISSED THE PEAK OF THE 21 APRIL FLARE, AND THIS EVENT IS CLASSED  
X SOLELY ON THE BASIS OF THE ASSOCIATED 10-CM RADIO BURST. NO  
DEKAMETRIC RADIO CONTINUUM FOLLOWED THIS EVENT. THE REGION WHICH  
PRODUCED THESE FLARES HAS GIVEN INDICATION OF NEITHER SIGNIFICANT  
GROWTH NOR DECAY AS IT APPROACHES WEST LIMB. THE ACTIVE CENTERS  
ASSOCIATED WITH THE MID-MARCH PROTON ENHANCEMENT CROSSED EAST  
LIMB ON 23 APRIL. SEVERAL ACTIVE CENTERS WITHIN THIS COMPLEX  
STILL SEEM VIGOROUS, AS EVIDENCED BY MODERATE CORONAL EMISSION,  
FREQUENT SUBFLARE ACTIVITY, AND MAGNETIC DELTA CONFIGURATION  
IN THE SPOT GROUP AT N09E72 /L276/. THE GEOMAGNETIC FIELD WAS  
SLIGHTLY DISTURBED ON 17, 18, AND 22 APRIL.

B. FORECAST FOR THE WEEK 26 APRIL-02 MAY 1969 CLN  
ACTIVITY IS EXPECTED TO DECREASE DURING THE WEEK AS THE N22/L064/  
COMPLEX TRANSITS THE WEST LIMB. MODERATE ACTIVITY MAY BE  
EXPECTED FROM THE N09/L276/ REGION.

28-DAY FORECAST FOR 26 APRIL-23 MAY 1969 CLN

ACTIVITY IS EXPECTED TO BE ENHANCED DURING THE PERIOD 08-12 MAY.

FORECASTS FOR 26-28 APRIL AND THE EXPECTED MEAN FORECASTS  
FOR 29 APRIL-02 MAY

C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

CLASS M OR GREATER 80/70/60 /60/

CLASS X 20/20/20 /15/

PROTON EVENTS 20/20/20 /15/

D. OTTAWA 10.7 CM FLUX TODAY 146. PREDICTED 145/145/145 /155/.

E. N/A.

F. KP ESTIMATED FOR 1200-1500Z WAS 1. KP 24 HOUR FORECAST  
PER KP 15.3; 2/2/2/2/2/2/2.

SOLTERWARN

BT

NNNNUUU  
PP KGFF  
DE BOU 252305Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 242B ISSUED 2300Z APRIL 25 1969  
CLASS M FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.  
A. DURING THE PAST 3 HOURS, THE REGION AT N09E56 HAS PRODUCED  
SEVERAL SUBFLARES WITH FREQUENT FLUCTUATIONS. THIS REGION CONTAINS  
AN ACTIVE FILAMENT TO THE SW AND NE OF THE MAIN SPOT GROUP. A NEW  
B-TYPE SPOT GROUP IS AT N10W07. THE GEOMAGNETIC FIELD REMAINS QUIET.  
SECTIONS B C AND D REMAIN UNCHANGED FROM SDF 242-A.  
E. MAGNETIC A-FREDERICKSBURG FOR 24 APRIL WAS 09. FOR 25 APRIL ABOUT  
11. PREDICTED AP FOR 26-28 APRIL 10/10/5.  
BT