

NNNNUUUV  
PP KGFF  
DE BOU 141745Z  
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 200A ISSUED 1700Z MARCH 14 1969

CLASS M FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. HIGHLIGHTS FOR THE PERIOD 06-14 MARCH 1969 CLN THE MOST  
OUTSTANDING EVENT OF THIS PERIOD WAS A CLASS X (IMP 2B FLARE)  
EVENT WHICH BEGAN AT 12/1734Z. IT WAS ACCOMPANIED BY MAJOR  
RADIO NOISE EMISSION AT ALL WAVELENGTHS, AND X-RAYS WHICH  
PRODUCED A SEVERE AND PROLONGED SID. SATELLITES AND SPACECRAFT  
DETECTED A MODERATE INCREASE IN LOW ENERGY PROTON FLUX BEG-  
INNING BETWEEN 12/1800-2000Z, WHICH WAS STILL IN PROGRESS AT  
14/1400Z. THE FLARE WAS LOCATED NEAR N11W78 IN A REGION WHICH  
HAS SINCE BEEN ROTATED OVER WEST LIMB. THIS REGION HAD AN  
ABNORMAL EVOLUTION DURING ITS DISK PASSAGE, MARKED BY SMALL  
SUNSPOTS, COMPACT PLAGE AND EMBEDDED FILAMENTS WITH E-W  
ORIENTATION. MAGNETICALLY THIS REGION WAS TWO BIPOLAR AREAS  
WHICH MERGED PRIOR TO FLARE TIME WITH ONLY AN ACTIVE DARK  
FILAMENT SEPARATING THEM. TODAY THE REGIONS OF INTEREST ARE  
NEAR S15E40 AND N13E78. THE SOUTHERN REGION CONTAINS SEVERAL  
SMALL SPOTS WITH AN E-W NEUTRAL LINE DELINEATED BY A HAIR-LINE  
FILAMENT BORDERED BY BRIGHT PLAGE. THE SPOT GROUP NOW VISIBLE  
AT N13E78 IS NOT IMPRESSIVE BUT THE H-PLAGE IS BRIGHT AND  
COMPACT.

B. FORECAST FOR THE WEEK 15-21 MARCH 1969 CLN THE REGIONS AT  
S15E40 AND N13E78 ARE EXPECTED TO INCREASE IN ACTIVITY WITH  
HIGHEST EXPECTATIONS FOR THE COMPLEX SE REGION. ADDITIONAL  
REGIONS RETURNING IN THE NE 14-15 MARCH COULD BE ACTIVE. THESE  
REGIONS WERE THE SOURCE OF PROTON FLARES LAST MONTH.

C. 28-DAY FORECAST FOR THE PERIOD 15 MARCH-11 APRIL 1969 CLN  
SOLAR ACTIVITY IS EXPECTED TO BE ABOVE NORMAL 17-24 MARCH  
AND 28 MARCH-05 APRIL.

D. DAILY FORECASTS FOR 15-17 MARCH AND EXPECTED MEAN FORECASTS  
FOR 18-21 MARCH 1969

DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

CLASS M OR GREATER 35/40/50 /50/

CLASS X 1/1/1 /1/

PROTON EVENTS 1/1/1 /1/

OTTAWA 10.7 CM FLUX TODAY IS 141. PREDICTED 142/145/148 /148/.

E. N/A

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

BT

NNNN

NNNNUUU  
PP KGFF  
DE BOU 142310Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 200B ISSUED 2300Z 14 MARCH 1969

CLASS M FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. THE REGION CURRENTLY AT N13E74 HAS SHOWN GROWTH IN WHITE LIGHT WITH BRIGHT FLUCTUATIONS THROUGHOUT THE DAY. CORONAL PRECIPITATION AND CONDENSATION, ALONG WITH FREQUENT SURGE ACTIVITY, HAS BEEN OBSERVED AT N12-15 EL. THE REGION CURRENTLY AT S15E34 IS THE MOST MAGNETICALLY COMPLEX REGION ON THE SUN AND IS A BETA.

B. THE ALMOST CONTINUOUS ACTIVITY ON THE NE LIMB SUGGESTS THAT THE ACTIVE CENTER OF THE PREVIOUS ROTATION IS STILL SIGNIFICANTLY ACTIVE. IT SHOULD BE APPEARING OVER THE LIMB WITHIN THE NEXT 36 HOURS. THE REGION AT S15E34 SHOULD BE WATCHED ESPECIALLY IF PENUMBRAL GROWTH OCCURS.

C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

CLASS M OR GREATER 40/50/60

CLASS X OR GREATER 1/2/5

PROTON EVENTS 1/2/5

SECTION D REMAINS UNCHANGED FROM SDF 200A.

E. MAGNETIC A-FREDERICKSBURG FOR 13 MAR WAS 06. FOR 14 MAR ABOUT 4. PREDICTED AP FOR 15-17 MARCH 15/12/8.

BT