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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 ACCCOMPANIED 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 BEGINNING 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 NF 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: 2-2-2-2-1-1-1.

BT

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NNNNUUV
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 OB-
SERVED AT N12-15 EL. THE REGION CURRENTLY AT S15E34 IS THE MOST MAG-
NETICALLY 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