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PP KGFF
DE ROU 211715Z
HFFF IS THE MESSAGE FOR RFFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 238A ISSUED 1700Z 21 APRIL 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

A. ACTIVE CENTERS OF INTEREST ARE CURRENTLY LOCATED NEAR N22W32, N22W60, AND S10W15. THE N22W32 REGION REMAINS THE MOST IMPRESSIVE AND ACTIVE. THIS REGION HAS SHOWN SPOT GROWTH, CHIEFLY PENUMBRAL DEVELOPMENT, AND THE ASSOCIATED PLAGE CONSISTS OF BRIGHT, PARALLEL E-W RIBBONS. THE REGION PRODUCED TWO CLASS M FLARES, 21/0346Z IMP SUB NORMAL AND 21/0805Z IMP ONE BRIGHT, AND AN IMP ONE NORMAL CLASS C FLARE AT 20/2225Z. THE N22W60 REGION APPEARS TO BE A NEW, RAPIDLY DEVELOPING REGION WITH COMPLEX ABSORPTION FEATURES. SIGNIFICANT SPOT GROWTH HAS OCCURRED IN THE S10W15 REGION AND THE ASSOCIATED COMPACT PLAGE IS CURRENTLY THE BRIGHTEST FEATURE ON THE DISK. THIS REGION PRODUCED AN IMP ONE NORMAL CLASS C FLARE AT 21/1145Z. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. THE ABOVE MENTIONED REGIONS ARE EXPECTED TO CONTINUE TO PRODUCE CLASS M FLARES. THE N22W32 AND N22W60 REGIONS ARE CONSIDERED TO BE APPROACHING CLASS X POTENTIAL. IF PRESENT TRENDS CONTINUE EITHER OR BOTH OF THESE REGIONS COULD PRODUCE CLASS X EVENTS BEFORE WEST LIMB PASSAGE.

FORECASTS FOR 22-24 APRIL

C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
CLASS M OR GREATER 80/80/80

CLASS X 20/25/30

PROTON EVENTS 20/25/30

D. OTTAWA 10.7 CM FLUX TODAY IS 156. PREDICTED 158/160/155.

E. N/A.

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

SOLTERWARN

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PP KGFF
DE BCU 212325Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER FSSA BOULDER COLO
SDF NUMBER 238B ISSUED 2300Z 21 APRIL 1969
CLASS M FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.
A. AN IMP THREE BRIGHT FLARE IN THE REGION NEAR N22W32 AT 21/1959Z
WAS A LARGE CLASS M AND POSSIBLY CLASS X. SATELLITE X-RAY DATA
CURRENTLY AVAILABLE MISSED FLARE PEAK. THE FLARE CONSISTED OF A
RIBBON ALONG THE NEUTRAL LINE AND SHOWED PARTIAL COVERAGE OF THE
MAIN UMBRA. RADIO BURST DATA CURRENTLY AVAILABLE GIVE CONFLICTING
IMPRESSIONS OF THE ENERGY OUTPUT OF THE FLARE. HOWEVER, MODERATE
TO SEVERE IONOSPHERIC DISTURBANCES WERE OBSERVED. THE FORT CHUPCHILL
30 MHZ RIOMETER SHOWED 2DB ABSORPTION FOR 15 MIN FOLLOWING THE FLARE
ONSET. PROTONS MUST BE CONSIDERED A DISTINCT POSSIBILITY.
SECTIONS B C AND D REMAIN UNCHANGED FROM SDF 238A.
E. MAGNETIC A-FREDERICKSBURG FOR 20 APRIL WAS 46. FOR 21 APRIL
ABOUT 14. PREDICTED AP FOR 22-24 APRIL 10/15/20.
BT