

NNNNJJVV
PP KGFF
DF ROU 211715Z
HERE 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 IMP-
RESSIVE 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.

SOLTERWARN

BT

UUU
PP KGFF
DE BOU 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 06. FOR 21 APRIL ABOUT 10. PREDICTED AP FOR 22-24 APRIL 10/15/20.

BT