

NNNNUM0352
NNNNCG
KMSC
PP KGFF
DE BOU 210400Z
THIS MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 421A ISSUED 0400Z 21 OCTOBER 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 13 HOURS.

A. THE REGIONS NOW LOCATED AT N10E68 AND N10E50 ARE BOTH CLASSIFIED AS HAVING DELTA CONFIGURATIONS. NUMEROUS SUBFLARES AND POINT BRIGHTENINGS HAVE BEEN OBSERVED FROM THESE REGIONS. THREE CLASS M FLARES HAVE BEEN OBSERVED FROM THESE REGIONS DURING THE PAST 24 HOURS. DURING THE PAST SIX HOURS ACTIVITY HAS SUBSIDED. THE MAGNETIC FIELD IS RELATIVELY QUIET.

B. THE ABOVE MENTIONED REGIONS SHOULD CONTINUE TO PRODUCE CLASS M FLARES. A NEW SPOT GROUP HAS ROTATED ON THE VISIBLE DISK AT SE10 EL. SURGE ACTIVITY HAS BEEN OBSERVED FROM THIS REGION. SATELLITE DATA INDICATES WE CAN EXPECT AN INCREASE IN MAGNETIC ACTIVITY DURING THE NEXT 24-36 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21/0400Z ENDING 23/0400Z.

CLASS M OR GREATER 100/100/100

CLASS X 20/20/20

PROTON EVENTS 15/15/15

D. OTTAWA 10.7 CM FLUX 20/2000Z WAS 164.

BT

should be 24/0400Z.

KMSC
PP KGFF
DE BOU 211722Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 421B ISSUED 1700Z 21 OCT 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. THE VERY LARGE AND COMPLEX REGION AT N12 E61 CONTINUES TO PRODUCE CLASS M FLARES WITH THE LATEST AT 20/2300 (IMP 1N). THIS REGION HAS ALL THE PARAMETERS FOR A MAJOR FLARE. IT HAS A MULTIPLE DELTA MAGNETIC CONFIGURATION, F-TYPE/850 MILLIONTHS AREA SPOT GROUP, BRIGHT AND LARGE PLAGE AREA, A HOT RADIO NOISE SOURCE AT 9-1 CM AND LASTLY, CONTAINS A BRIGHT BRIDGE IN WHITE LIGHT AND H-ALPHA. THE REGION AT N11E40 ALSO IS MAGNETICALLY COMPLEX AND HAS A LARGE PLAGE AREA, BUT ITS SPOT AREA IS SMALLER AT 310 MILLIONTHS. THE REMAINING REGIONS ARE SMALL AND FAIRLY STABLE. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS M FLARE ARE EXPECTED TO CONTINUE FROM THE N12E61 REGION WITH A MAJOR FLARE CONSIDERED PROBABLE WITHIN 48 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME DISTURBED WITHIN 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21/1700Z ENDING 24/1700Z.

CLASS M OR GREATER 100/100/100

CLASS X 40/45/50

PROTON EVENTS 40/45/50

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 171. PREDICTED 180/185/185.

E. MAGNETIC A-FREDERICKSBURG FOR 20 OCT WAS 03. FOR 21 OCT ABOUT 06 PREDICTED AP FOR 22-24 OCT, 15/10/10.

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

SOLTERWARN

BT