

KMSC
PP KGFF
DE BOU 250400Z
THIS MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 425A ISSUED 0400Z 25 OCT 1969

CLASS X FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. A CLASS M FLARE OPTICAL CLASSIFICATION 2N OCCURRED 24/2110Z FROM
THE REGION AT N11E20. THE FLARE CAME UP VERY FAST AND HAD A SURGE
GOING NORTH ALONG THE NEUTRAL LINE. THIS FILAMENT REAPPEARED AGAIN
AFTER THE FLARE. THIS REGION TOGETHER WITH THE REGION AT N10W03 HAS
PRODUCED MANY SUBFLARES DURING THE PAST 11 HOURS. OTHER REGIONS ARE
QUIET. THE MAGNETIC FIELD IS QUIET.

B. THE REGION N11E20 IS CAPABLE OF PRODUCING A LARGE FLARE WITH
POSSIBLE PROTONS. THE SIZE, THE CHANGING IN STRUCTURE, POSITION ON
THE DISK AND PAST HISTORY ALL INDICATE A HIGH PROBABILITY. THE
REGION AT N10W03 IS CAPABLE OF CLASS M FLARES, THE 9.1 CM RADIO MAP
SHOWS A SIGNIFICANT INCREASE IN THIS REGION FROM YESTERDAYS MAP.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 25/0400Z ENDING 27/0400Z.

CLASS M OR GREATER 90/90/90

CLASS X 50/55/55

PROTON EVENTS 45/50/50

D. OTTAWA 10.7 CM FLUX AT 24/1700Z WAS 206.

BT

DE BOU 251750Z

HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 425B ISSUED 1-10Z 25 OCTOBER 1969

CLASS X FLARES ARE EXPECTED IN THE NEXT 11 HOURS.

A. THE REGION AT N10W14 APPEARS DECLINING, BUT THE OUTBREAK OF A PROXIMATE NEW REGION AT N05W11 MAINTAINS ABILITY TO PRODUCE MODERATE FLARE ACTIVITY. WL PROPER MOTIONS ARE NOTICEABLE IN THE N11E06 REGION, AND NE OF LEADING PENUMBRA IS A REGION OF VERY BRIGHT PLAGE WITH A BORDERING ABSORPTION FEATURE. THIS ABSORPTION FEATURE ON THE NORTH SIDE OF THE PLAGE SEGMENT, IS VISIBLE IN BOTH WINGS OF H-ALPHA, AND IS BETWEEN TWO INFERRED NEUTRAL LINES ASSOCIATED WITH LEADING AND TRAILING PORTIONS OF THE TOTAL CENTER OF ACTIVITY. INSTABILITY (SUBFLARES, FLUCTUATIONS) IN THIS PROTION OF THE ACTIVE CENTER HAS BEEN MARKED. ANOTHER SHORT, HARD FILAMENT WHICH BRIDGES BETWEEN BRIGHT PLAGE SEGMENTS IN THE TRAILING PORTION OF THE REGION HAS BEEN ACTIVE IN THE RED WING. A NEW BIPOLAR REGION IS APPARENT AT N22E61. PROTON FLUXES REPORTED BY ATS-1 ARE VERY SLIGHTLY ENHANCED IN BOTH 5-20 AND 20-70 MEV RANGES. GEO-MAGNTIC FIELD IS RALATIVELY QUIET.

B. CLASS X FLARES ARE EXPECTED FROM N11E06 REGION.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25 OCT/1700Z ENDING 26 OCT/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 50/50/50

PROTON EVENTS 50/50/50

D. OTTAWA 10.7 CM FLUX TODAY AT 1700Z WAS 209. PREDICTED 215/210/210.

E. N/A

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