

NNNN0500

NNNN

KMSC

HAUS BOU 300455

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 795A ISSUED 0400Z 30 OCT 1970

ONE OR TWO SMALL M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS. A. A BORDERLINE M EVENT OCCURRED NEAR N15W23 YESTERDAY AT 1709Z, MARKING ONLY THE SECOND ENERGETIC EVENT FOR THE PREVIOUS 24-HOUR PERIOD. THE THREE LARGE DISK FEATURES NEAR N22W01, N18W07, AND N15W22 HAVE EXHIBITED LITTLE SIGNIFICANT CHANGE SINCE THE LAST MESSAGE. BRIGHTNESS TEMPERATURES AT 8.6MM AND 9.1CM AS WELL AS AREA HAVE BEEN DECLINING ACROSS THIS CLUSTER OF REGIONS. LITTLE CHANGE, HOWEVER, IS EVIDENT IN DEFINITION AND CONFIGURATION ALONG THE FOUR NEUTRAL LINES THE COMPLEX CONTAINS. K-INDICES OF 2 OR 3 HAVE GENERALLY CHARACTERIZED THE PREVIOUS 24 HOURS.

B. AS OUT LINED IN BOULDER'S OBSERVATORY REPORT, THE MOST LIKELY AREAS FOR FLARE PRODUCTION TODAY ARE N16W09, N15W21, AND ALONG A S13E55 FILAMENT. SOMETIME DURING THE NEXT 4 OR 5 DAYS AT LEAST ONE X-TYPE FLARE SHOULD OCCUR WITHIN ONE OF THE THREE NW REGIONS. ATTENDANT PROTON FLUXES ARE EXPECTED TO BE SIGNIFICANT AT SATELLITE ALTITUDES ONLY WHILE ANY MAGNETIC EFFECTS ARE FORSEEN TO L E BELT/WORM LEVEL, I.E. A-INDICES BETWEEN 20 AND 25. BASED UPON PIONEER 6 SOLAR WIND DATA AND DISK ACTIVITY ON THE 28TH, THE PERIOD 30/1500 TO 2400Z SHOULD BE ACTIVE WITH K-INDICES OF 4 AND 5.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 OCT/0400Z ENDING 02 NOV/0400Z.

CLASS M OR GREATER 95/85/80

CLASS X 25/20/15

PROTON EVENTS 25/20/15

D. OTTAWA 10.7 CM FLUXES FOR 29/1700Z AND 29/2000Z WERE 192 AND 188 RESPECTIVELY.

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HAUS BOU 301700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 795B ISSUED 1700Z 30 OCT 1970

SMALL CLASS M EVENTS ARE EXPECTED DURING THE NEXT 11 HOURS.

A. NUMEROUS SUBFLARES HAVE OCCURRED IN THE REGIONS NEAR N18W12, N15W27, AND S10E36 BUT ONLY ONE EVENT OF UNKNOWN ORIGIN AT 30/0730Z HAS REACHED CLASS M1 THRESHOLD. OVERALL THE DISK FEATURES APPEAR TO BE IN THE INITIAL STAGES OF A SLOW DECAY. ALL DELTA CONFIGURATIONS IN THE NW COMPLEX HAVE WEAKENED OR DISAPPEARED. UNSTABLE AREAS IN THE SOUTH OF THE N18W12 AND SOUTHEAST OF THE N15W27 REGIONS ARE THE MOST LIKELY SOURCES OF ENERGETIC ACTIVITY IN THE NEXT FEW HOURS. A J-TYPE SPOT WITH SCATTERED PLAGE THAT EXTENDS TO THE LIMB IS LOCATED NEAR N22E80. PROTON FLUXES NEAR EARTH REMAIN AT BACKGROUND. THE GEOMAGNETIC FIELD WAS VERY SLIGHTLY DISTURBED DURING LOCAL NIGHT.

B. SIGNIFICANT BUT INFREQUENT ENERGETIC EVENTS ARE EXPECTED AS THE NW COMPLEX OF REGIONS BREAKS UP. PROTON ENHANCEMENTS NEAR EARTH SHOULD BE RELATIVELY SMALL. MINOR TO MODERATE GEOMAGNETIC DISTURBANCE IS EXPECTED FOR THE NEXT 36 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 OCT/1700Z ENDING 02 NOV/1700Z.

CLASS M OR GREATER 90/85/80

CLASS X 25/20/15

PROTON EVENTS 25/20/15

D. OTTAWA 10.7 CM FLUX FOR 30/1400Z WAS 179. PREDICTED 10.7 CM FLUX FOR 31 OCT-02 NOV IS 177/173/169.

E. MAGNETIC A-FREDERICKSBURG FOR 29 OCT WAS 13. FOR 30 OCT ABOUT 14. PREDICTED AP FOR 31 OCT-02 NOV, 22/15/12.

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