

NNNN0357

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KMSC

HAUS BOU 230400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 454A ISSUED 0400Z 23 NOVEMBER 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 13 HOURS.

A. A CLASS X FLARE WAS OBSERVED 22/2115Z AT N10W13. THIS FLARE WAS CLASSIFIED OPTICALLY AS 2B. SATELLITE DETECTORS SHOW A 15 PERCENT INCREASE OVER BACKGROUND ON 3-20 MEV DETECTOR WHICH WOULD INDICATE A VERY MINIMAL PROTON COUNT. GROUND BASED DETECTORS SHOW NO APPRECIABLE INCREASE IN PROTON COUNT. GREEN RIVER NEUTRON COUNT REMAINS LEVEL. THE REGION AT N12W17 HAS REMAINED VERY HIGH IN 9.1 CM BRIGHTNESS TEMPERATURE. MAXIMUM FIELD STRENGTHS ARE LOWER THAN YESTERDAY. THEY ARE OF THE ORDER OF 1900 GAUSS. THE REGION IS STILL COMPLEX. A SMALL S.C. WAS OBSERVED 22/0255Z BUT GEOMAGNETIC FIELD IS ONLY MODERATELY DISTURBED.

B. MAJOR FLARES ARE EXPECTED FROM N12W17 DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 NOV/0400Z ENDING 26 NOV/0400Z.

CLASS M OR GREATER 100/100/100

CLASS X 55/55/45

PROTON EVENTS 55/55/45

D. OTTAWA 10.7 CM FLUX 22/1700Z AND 2000Z WERE 214 AND 215

RESPECTIVELY

SOLTERWARN

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HAUS BOU 231700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 454B ISSUED 1700Z 23 NOV 1969

CLASS X AND CLASS M FLARES EXPECTED.

A. SINCE SDF 454A (0400Z) THE TWO MASSIVE REGIONS NOW CENTERED NEAR N10W28 HAVE PRODUCED MANY FLARES; THE MOST SIGNIFICANT AT 0942Z (CLASS X 1 BRIGHT); AT 0240Z (CLASS M 1 BRIGHT); AT 0729Z (CLASS M 1 NORMAL). AND 1541Z (CLASS M 1 NORMAL). RADIO DATA INDICATE THE REGION IS NOW HOTTER THAN ON PREVIOUS THREE DAYS

B. MAJOR FLARES WILL CONTINUE FROM THESE REGIONS WITH AT LEAST ONE EACH SIX HOURS. THE CURRENT INTENSITY OF THESE REGIONS INDICATE THE STRONG PROBABILITY OF A VERY LARGE FLARE WHICH WOULD PRODUCE PROTONS IN THE NEAR EARTH ENVIRONMENT WITHIN 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 NOV/1700Z ENDING 26 NOV/1700Z.

CLASS M OR GREATER 100/100/100

CLASS X 70/70/60

PROTON EVENTS 60/55/45

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 216. PREDICTED 220/220/205.

E. MAGNETIC A-FREDERICKSBURG FOR 22 NOV WAS 08. FOR 23 NOV ABOUT 05 PREDICTED AP FOR 24 25 26 NOV 10/15/08.

SOLTERWARN

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