

NNNN0431

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KMSC

HAUS BOU 210430Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 452A ISSUED 0400Z 21 NOVEMBER 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A SINGLE CLASS X FLARE IS LIKELY TO OCCUR DURING THE LATTER HALF OF THE DAY.

A. THERE HAS BEEN AN OBVIOUS DECLINE IN THE FREQUENCY AND INTENSITY OF ENERGETIC FLARES THESE PAST 24 HOURS FROM THE BY NOW WELL DOCUMENTED REGION NEAR CM. THE MOST RECENT ACTIVITY THERE TOOK PLACE AT 20/2320Z /1A/ AND 21/0105Z /1B/. NECESSARY X-RAY PROFILES ARE NOT YET AVAILABLE TO RATE THESE FLARES AS EITHER M OR X. ACTIVITY IS BECOMING MORE EVENLY DISTRIBUTED AT LEAST AT THE BACKGROUND LEVEL BETWEEN THE 2 CLOSELY SPACED GROUPS CONSTITUTING THIS CENTER. THE SPECIFIC RADIO WAVELENGTH ENHANCEMENTS /9.1CM 8.6 AND 3MM/ MENTIONED IN MESSAGE 451A FOR THE ABOVE DUAL SPOT GROUP HAVE ALL DECREASED. OTHER PARAMETERS SUCH AS 1-8 ANGSTROM BACKGROUND FLUX AND SPOT AND PLAGE AREA ALSO INDICATE YESTERDAYS CONFIGURATION MAY WELL HAVE REPRESENTED MAXIMUM DEVELOPMENT. THE SMALL REGION /CLASS/AREA ABOUT D/130/ TRAILING THE N07-13 CENTER BY APPROXIMATELY 35 DEGREES HAS SHOWN CONSIDERABLE GROWTH IN HYDROGEN LIGHT. THE PLAGE THERE IS VERY NEAR FLARE BRIGHTNESS.

B. SAME AS PREVIOUS FORECAST

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

CLASS M OR GREATER 100/100/100

CLASS X 70/70/70

PROTON EVENTS 40/40/40

D. OTTAWA 10.7 CM FLUXES FOR 20/1700 AND 2000Z WERE 199 AND 195. RESPECTIVELY.

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HAUS BOU 211730Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 452B ISSUED 1700Z 21 NOVEMBER 1969.

CLASS M FLARES ARE EXPECTED IN THE NEXT 11 HOURS.

A. CLASS M FLARES WERE REPORTED BEGINNING 21/0209Z 21/0829Z AND 21/0930Z. THE FIRST TWO WERE LOCATED IN THE WESTERN PORTION OF THE N13E07 REGION WHILE THE LAST WAS IN THE EASTERN PORTION OF THE N07W07 REGION. SPOT GROWTH IS REPORTED IN BOTH REGIONS BUT PLAGES APPEAR SOMEWHAT LESS IMPRESSIVE. THE GEOMAGNETIC FIELD IS QUIET AND PROTON FLUXES NEAR EARTH ARE AT BACKGROUND.

B. TENTATIVE IMPRESSION IS SLIGHTLY DECREASED POTENTIAL FOR MAJOR ACTIVITY AS DETAILED ABOVE AND IN SDF 452A. CLASS M ACTIVITY EXPECTED AT CURRENT RATES.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21 NOV/1700Z ENDING 23 NOV/1700Z.

CLASS M OR GREATER 100/100/100

CLASS X 65/65/65

PROTON EVENTS 40/40/40

D. OTTAWA 10.7 CM FLUX TODAY AT 1400Z WAS 203. PREDICTED 205/205/205.

E. MAGNETIC A-FREDERICKSBURG FOR 20 NOV WAS 02. FOR 21 NOV ABOUT 05.

PREDICTED AP FOR 22-24 NOV 15/10/08.

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