

NNNNUU0400

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KMSC

HAUS BOU 290400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 702A ISSUED 0400Z 29 JULY 1970

NO MORE THAN ONE OR TWO SMALL M EVENTS ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY REMAINS LOW. APPROXIMATELY 18 CLASS-C FLARES WERE RECORDED YESTERDAY, HOWEVER, THERE WERE NO M EVENTS AMONG THEM. STRUCTURAL CHANGES NOTED SINCE THE LAST MESSAGE HAVE BEEN SMALL. BOTH LIMBS ARE QUITE. GEOMAGNETIC CONDITIONS CURRENTLY REFLECT THE TYPICAL QUIET DAY.

B. THERE IS GROWING ANTICIPATION OF A POSSIBLE WEST LIMB EVENT SOMETIME BETWEEN 31 JULY AND 01 AUG. THE MOST LIKELY CANDIDATE IS THE DEVELOPING GROUP NOW NEAR N13W61. SOLAR WIND SPEED DATA FROM THE PIONEER 8 SPACECRAFT IMPLY ANOTHER PERIOD OF SUBSTORM GEOMAGNETIC FLUCTUATIONS LIE AHEAD. A POSSIBLE SMALL SC IS FORSEEN-ONE BEGINNING NO LATER THAN 29/1100Z

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 JULY/0400Z ENDING 01 AUG/0400Z.

CLASS M OR GREATER 75/80/85

CLASS X 05/10/15

PROTON EVENTS 05/10/15

D. OTTAWA 10.7 CM FLUXES FOR 28/1700Z AND 28/2000Z WERE 177 AND 168 RESPECTIVELY.

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HAUS BOU 291700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 702B ISSUED 1700Z 29 JULY 1970

INFREQUENT CLASS-M FLARES ARE LIKELY DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A RELATIVELY LOW LEVEL DURING THE PAST 13 HOURS; ONLY TWO BORDERLINE CLASS-M FLARES AND OCCASIONAL CLASS-C FLARES HAVE BEEN REPORTED DURING THIS PERIOD. NO MAJOR STRUCTURAL CHANGES HAVE BEEN NOTED IN ANY DISK REGIONS, AND SPECTROHELIOSCOPIC ANALYSIS DONE HERE IN BOULDER INDICATES THAT NO REGIONS POSSESS MAGNETIC CONFIGURATIONS OF THE TYPE THAT USUALLY ARE ASSOCIATED WITH THE PRODUCTION OF SIGNIFICANT ENERGETIC ACTIVITY. THE GEOMAGNETIC FIELD HAS BEEN DISTURBED TO STORM LEVELS, WITH K-VALUES OF 5 REPORTED FOR THE 0300-600Z, 0600-0900Z, AND 0900-1200Z PERIODS AT FREDERICKSBURG, VIRGINIA. DISTURBANCE IS CONTINUING AT THE TIME OF THIS MESSAGE.

B. NO MAJOR SOLAR ACTIVITY IS ANTICIPATED DURING THE NEXT 72 HOURS; INFREQUENT, SMALL CLASS-M FLARES ARE LIKELY DURING THIS FORECAST PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN DISTURBED OVER AT LEAST THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 JULY/1700Z ENDING 01 AUG/1700Z.

CLASS M OR GREATER 75/80/85

CLASS X 05/10/15

PROTON EVENTS 05/08/10

D. OTTAWA 10.7CM FLUX FOR 29/1400Z WAS 159. PREDICTED 10.7CM FLUX FOR 30 JULY-01 AUG IS 151/147/144.

E. MAGNETIC A-FREDERICKSBURG FOR 28 JULY WAS 04. FOR 29 JULY ABOUT 35. PREDICTED AP FOR 30 JULY-01 AUG IS 18/13/10.

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