

NNNN0350

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KMSC

HAUS BOU 210400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 482A ISSUED 0400Z 21 DEC 1969

CLASS M FLARES ARE PROBABLE IN THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 11 HOURS EXCEPT FOR A CLASS M EVENT AT 2013Z OPTICAL SB AT S12W33. THE REGION AT S15E48 HAS SHOWN CONSIDERABLE PENUMBRAL GROWTH. OTHER REGIONS ON THE DISK HAVE REMAINED QUITE STABLE. THE PARTICLES DETECTED AT SATELLITE LEVELS HAVE BEEN DECREASING AND GROUND BASED DETECTORS HAVE SHOWN NO ENHANCEMENT OR ABSORPTION. THE GEOMAGNETIC FIELD IS VERY QUIET.

B. THE REGIONS AT N12W24 AND S10W32 ARE CAPABLE OF PRODUCING CLASS M FLARES. IF THE REGION AT S15E48 CONTINUES TO DEVELOP IT TOO SHOULD BE WATCHED FOR CLASS M EVENTS. A GEOMAGNETIC DISTURBANCE IS EXPECTED IN ABOUT 24 HOURS.

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

CLASS M OR GREATER 60/60/60

CLASS X 05/05/05

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX AT 20/1700Z AND 2000Z WERE BOTH 159.

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HAUS BOU 211700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 482B ISSUED 1700Z 21 DECEMBER 1969

INFREQUENT CLASS M ACTIVITY IS EXPECTED DURING THE NEXT 11 HOURS.

A. ACTIVITY HAS BEEN AT A LOW LEVEL WITH ONLY A FEW CLASS C SUBFLARES THE PAST 13 HOURS. THE REGIONS NEAR S10W43 S08W19 AND S11E35 ARE GROWING AND ARE PROBABLY RESPONSIBLE FOR THE RISING 10CM FLUX. A J-TYPE SPOT HAS CROSSED THE EAST LIMB NEAR S18. SURGE ACTIVITY IS REPORTED NEAR N05E1. THE ATS-1 SATELLITE INDICATES THAT THE PROTON FLUX NEAR EARTH IS STILL ENHANCED BUT DECAYING SLOWLY. THE GEOMAGNETIC FIELD IS QUIET.

B. INFREQUENT CLASS M FLARES ARE EXPECTED DURING THE NEXT 72 HOURS. A GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN WITHIN THE NEXT 12 HOURS.

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

CLASS M OR GREATER 60/60/50

CLASS X 05/05/05

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 165. PREDICTED 170/175/178.

E. MAGNETIC A-FREDERICKSBURG FOR 20 DEC WAS 02. FOR 21 DEC ABOUT 05. PREDICTED AP FOR 22-25 DEC; 28/19/12.

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