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UMSC

HAUS BOU 010400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 524A ISSUED 0400Z 01 FEBRUARY 1970

CLASS M FLARES ARE EXPECTED IN THE NEXT 13 HOURS

A. THE PROTON EVENT WHICH BEGAN 31/1628Z IS STILL IN PROGRESS. EARTH SENSORS INDICATE ONLY A VERY SMALL POLCAP ABSORPTION. THE SATELLITE DETECTORS INDICATE A REDUCTION IN COUNTS DURING THE PAST SIX HOURS. THE REGION S16W72 WHICH PRODUCED THE FLARE 31/1505Z HAS DETERIORATED SOME IN WHITE LIGHT BUT IS STILL CAPABLE OF CLASS M FLARES. THE OTHER DISK REGIONS ARE ALL QUIET. THE MAGNETIC DISTURBANCE ENDED 31/0300Z.

B. CLASS M FLARES ARE PROBABLE FROM S16W72 AS IT STARTS ITS WEST LIMB PASSAGE TOMORROW. A NEW MAGNETIC DISTURBANCE WITH POSSIBLE STORM PROPORTIONS IS EXPECTED IN THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 01 FEB/0400Z ENDING 04 FEB/0400Z.

CLASS M OR GREATER 80/80/80

CLASS X 35/35/25

PROTON EVENTS 15/10/10

D. OTTAWA 10.7 CM FLUX 31/1700Z AND 2000Z WERE 172 AND 150 RESPECTIVELY. THE 1700Z FLUX IS FLARE CONTAMINATED.

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UMSC

HAUS BOU 011708Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 524B ISSUED 1700Z 01 FEBRUARY 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. ONLY CLASS C SUBFLARES, MOSTLY IN THE REGION NOW NEAR S16W83, HAVE BEEN REPORTED DURING THE PAST 13 HOURS. THE HIGHER ENERGY PROTON FLUX DETECTED BY ATS-1, 21-70 MEV, FROM THE 31/1505Z IMP TWO BRIGHT CLASS M EVENT PEAKED NEAR 31/2100Z AND THE 5 TO 21 MEV PROTON FLUX PEAKED NEAR 01/0500Z. THE PEAK HIGH AND LOW ENERGY RANGE FLUXES WERE ABOUT 160 AND 570 PARTICLES PER SQ CM PER SEC, RESPECTIVELY. AT 01/1100Z, THE LAST ATS-1 REAL TIME DATA AVAILABLE, THE CORRESPONDING FLUXES WERE ABOUT 20 AND 150. ONLY MINOR POLCAP ABSORPTION HAS BEEN REPORTED. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED.

B. CLASS M EVENTS ARE EXPECTED, AND CLASS X ARE POSSIBLE, UNTIL THE S16W83 REGION IS SAFELY BEYOND WEST LIMB, APPROXIMATELY 20 TO 24 HOURS. ACTIVITY IS THEN EXPECTED TO DECLINE SHARPLY WITH ONLY CLASS C FLARES EXPECTED FOR THE REMAINDER OF THE NEXT 72 HOUR PERIOD. A GEOMAGNETIC DISTURBANCE, POSSIBLY OF STORM PROPORTIONS, IS EXPECTED TO BEGIN LATE THIS UT DAY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 01 FEB/1700Z ENDING 04/1700Z.

CLASS M OR GREATER 80/40/25

CLASS X 25/05/05

PROTON EVENTS 15/05/02

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 139. PREDICTED 130/125/120.

E. MAGNETIC A-FREDERICKSBURG FOR 31 JAN WAS 04. FOR 01 FEB ABOUT 10. PREDICTED AP FOR 02-04 FEB, 30/15/10.

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