

NNNN0353

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KMSC

HAUS BOU 240400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 850A ISSUED 0400Z 24 DECEMBER 1970

CLASS C FLARES ARE EXPECTED AND AN OCCASIONAL CLASS M
FLARE IS PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS BEEN AT A RELATIVELY LOW LEVEL
DURING THE PAST 11 HOURS, NO ENERGETIC FLARES HAVE BEEN
OBSERVED. THE REGION AT N13W52 HAS PRODUCED THE MAJORITY
OF ACTIVITY. THE WHOLE NORTHWEST COMPLEX HAS REMAINED
ABOUT THE SAME DURING THE PAST 24 HOURS. THE GEOMAGNETIC
FIELD IS SLIGHTLY DISTURBED AT PRESENT TIME.

B. THE NORTHWEST COMPLEX, WHICH IS MADE UP OF 4 DIFFERENT
SPOT GROUPS IS CAPABLE OF PRODUCING CLASS M ACTIVITY.
THE GEOMAGNETIC FIELD WILL HAVE PERIODS OF MINOR DISTURBANCE
DURING NEXT TWO DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE
24 HOUR PERIODS BEGINNING 24 DEC/0400Z ENDING 27 DEC/0400Z.
CLASS M OR GREATER 55/50/40

CLASS X 05/02/01

PROTON EVENTS 05/02/01

D. OTTAWA 10.7CM FLUXES FOR 23/1700Z AND 23/2000Z WERE
137 AND 140 RESPECTIVELY.

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NNNN0353

HAUS BOU 241740

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 850B ISSUED 1700Z 24 DEC 1970

ONE OR TWO SMALL CLASS-M FLARES ARE LIKELY DURING THE NEXT 11 HOURS.

A. ONLY SPORADIC CLASS-C FLARES HAVE BEEN REPORTED DURING THE PAST 13 HOURS. THE COMPLEX CENTERED NEAR N18W65 IS PRESENTLY THE MOST IMPRESSIVE DISK FEATURE; ACTIVE FILAMENTS AND BRIGHT PLAGE HAVE BEEN REPORTED AT THAT SITE. AN H-TYPE SPOT WITH A SMALL FOLLOWING SPOT AND PLAGE HAVE CROSSED THE LIMB AND NOW ARE LOCATED AT N15E73, BUT THIS REGION APPEARS TO BE DECLINING. A MINOR PROTON EVENT IS IN PROGRESS ON THE ATS-1 SATELLITE; THIS EVENT BEGAN RATHER ABRUPTLY AT APPROXIMATELY 24/0740Z ON THE 20-70 MEV CHANNEL. THE 5-20 MEV CHANNEL BEGAN TO INCREASE AT ABOUT 24/0810Z. PRESENT COUNTING RATES ARE ABOUT 30 PARTICLES/CM2/SEC AT 5-20 MEV AND ABOUT 4 PARTICLES/CM2/SEC AT 20-70 MEV; THESE VALUES ARE SLIGHTLY BELOW THE MAXIMUM VALUES, WHICH OCCURRED NEAR 24/1400Z. THE SOURCE OF THESE PARTICLES HAS NOT BEEN DETERMINED. THE GEOMAGNETIC FIELD HAS EXHIBITED UNSETTLED CONDITIONS DURING THE LAST 13 HOURS.

B. INFREQUENT, RELATIVELY NON-ENERGETIC SOLAR FLARES ARE ANTICIPATED DURING THE THREE-DAY FORECAST PERIOD; THE COMPLEX NEAR N18W65 IS EXPECTED TO BE THE SOURCE OF MOST OF THIS ACTIVITY. THE PROTON EVENT PRESENTLY IN PROGRESS IS NOT EXPECTED TO PRODUCE A SIGNIFICANT POLAR CAP ABSORPTION. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN SLIGHTLY DISTURBED UNTIL EARLY 26 DECEMBER, WHEN A MINOR GEOMAGNETIC STORM IS EXPECTED TO BEGIN.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24 DEC/1700Z ENDING 27 DEC/1700Z.

CLASS M OR GREATER 50/50/40

CLASS X 05/02/01

PROTON EVENTS 05/02/01

D. OTTAWA 10.7 CM FLUX FOR 24/1400Z WAS 139. PREDICTED 10.7 CM FLUX FOR 25-27 DEC IS 133/129/125.

E. MAGNETIC A-FREDERICKSBURG FOR 23 DEC WAS 06. FOR 24 DEC ABOUT 10. PREDICTED AP FOR 25-27 DEC, 09/20/12.

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