

KMSC

HAUS BOU 250400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 851A ISSUED 0400Z 25 DECEMBER 1970

ONLY MINOR ACTIVITY IS EXPECTED DURING THIS CHRISTMAS DAY.

A. ONLY A FEW CLASS C SUBFLARES HAVE OCCURRED DURING THE PAST 24 HOURS. THE FACE OF THE SUN IS GENERALLY UNIMPRESSIVE. THE COMPLEX OF REGIONS NEAR N18W70 APPEARS TO BE DECAYING AS IT APPROACHES THE WEST LIMB. THE SATELLITE LEVEL PROTON ENHANCEMENT WHICH BEGAN AT 24/0740Z CONTINUES. THE HIGHEST FLUXES RECORDED THUS FAR WERE AT 24/2200Z AND AMOUNTED TO ONLY 40 AND 8 PARTICLES PER SQ CM PER SEC ON THE 5-20 AND 20-70 MEV DETECTORS ABOARD ATS-1. NO SIGNIFICANT POLAR CAP ABSORPTION HAS BEEN REPORTED. WE STILL DO NOT KNOW THE ORIGIN OF THIS EVENT. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. INFREQUENT AND RELATIVELY NON-ENERGETIC FLARES ARE EXPECTED DURING THE NEXT 72 HOURS. THE NW COMPLEX IS THE MOST LIKELY SOURCE OF ACTIVITY. A MINOR MAGNETIC DISTURBANCE IS PROBABLE WITHIN THE NEXT 36 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25 DEC/0400Z ENDING 28 DEC/0400Z

CLASS M OR GREATER 50/40/40

CLASS X 02/02/01

PROTON EVENTS 02/01/01

D. OTTAWA 10.7 CM FLUXES FOR 24/1700Z AND 24/2000Z WERE 129 AND 130 RESPECTIVELY.

SOLTERWARN

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KMSC

HAUS BOU 251700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 851B ISSUED 1700Z 25 DECEMBER 1970

ONLY RELATIVELY NON-ENERGETIC ACTIVITY IS ANTICIPATED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THIS CHRISTMAS DAY. DURING THE LAST 13 HOURS, A FEW CLASS-C SUBFLARES HAVE BEEN REPORTED, AND A CLASS-M1 EVENT OF UNDETERMINED ORIGIN OCCURRED AT 25/0750Z. THE COMPLEX OF REGIONS NEAR N13W78 HAS DEGENERATED SOMEWHAT; THE OTHER REGIONS ON THE DISK ARE RELATIVELY SMALL AND UNIMPRESSIVE. ATIS-1 PROTON COUNTING RATES HAVE CONTINUED TO DECLINE SLOWLY; PRESENT COUNTING RATES ARE 7 PARTICLES/CM2/SEC AT 5-20 MEV AND 3 PARTICLES/CM2/SEC AT 20-70 MEV. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST 24 HOURS.

B. DURING THE THREE-DAY FORECAST PERIOD, INFREQUENT, GENERALLY NON-ENERGETIC SMALL FLARES ARE ANTICIPATED. THE COMPLEX OF REGIONS NOW APPROACHING THE NORTHWEST LIMB IS EXPECTED TO PRODUCE MOST OF THE ACTIVITY DURING THE NEXT 24 HOURS. ATIS-1 PROTON COUNTING RATES PROBABLY WILL DECREASE STEADILY. A MINOR GEOMAGNETIC DISTURBANCE MAY OCCUR DURING THE NEXT 24 HOURS AS A RESULT OF THE UNDETERMINED EVENT THAT CAUSED THE PRESENT MINOR PROTON ENHANCEMENT.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25 DEC/1700Z ENDING 28 DEC/1700Z.

CLASS M OR GREATER 45/40/30

CLASS X 02/02/01

PROTON EVENTS 02/01/01

D. OTTAWA 10.7 CM FLUX FOR 25/1400Z WAS 130. PREDICTED

10.7 CM FLUX FOR 26-28 DEC IS 126/122/124.

E. MAGNETIC A-FREDERICKSBURG FOR 24 DEC WAS 08. FOR 25 DEC ABOUT 03. PREDICTED AP FOR 26-28 DEC, 14/08/06.

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