

KMSC

HAUS BOU 220400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 848A ISSUED 0400Z 22 DECEMBER 1970

ONLY CLASS C ACTIVITY IS EXPECTED DURING THE NEXT 13 HOURS.

A. THE DISK HAS REMAINED REASONABLY QUIET DURING THE PAST 11 HOURS. A FEW NON-ENERGETIC SUBFLARES HAVE BEEN OBSERVED FROM NUMEROUS SOURCES. THE REGION N23W36 IS THE MOST INTERESTING DISK FEATURE AND IT DOES CONTAIN MIXED POLARITIES. THE OTHER DISK FEATURES ARE STABLE AND QUIET. THE GEOMAGNETIC FIELD IS QUIET.

B. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT PRESENT LOW LEVEL. SEVERAL NEW SPOT GROUPS HAVE DEVELOPED BUT DO NOT APPEAR CAPABLE OF MAJOR ACTIVITY. THE GEOMAGNETIC FIELD WILL REMAIN RELATIVELY QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 DEC/0400Z ENDING 25 DEC/0400Z

CLASS M OR GREATER 45/40/40

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 21/1700Z AND 21/2000Z WERE 153 AND 152 RESPECTIVELY.

SOLTERWARN

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HAUS BOU 221700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 848B ISSUED 1700Z 22 DECEMBER 1970

OCCASIONAL CLASS-C FLARES AND ONE OR TWO SMALL CLASS

M FLARES ARE ANTICIPATED DURING THE NEXT 11 HOURS.

A. TWO ENERGETIC FLARES HAVE OCCURRED IN THE REGION AT N24W42 DURING THE PAST 13 HOURS; A CLASS-M6, ONE BRILLIANT FLARE WAS OBSERVED AT 22/1245Z, AND A CLASS-X1 ONE BRILLIANT FLARE WAS PRODUCED AT 22/1516Z. THE LATTER FLARE WAS ACCOMPANIED BY MODERATE IONOSPHERIC DISTURBANCES AND A RADIO BURST OF ABOUT 120 FLUX UNITS AT 2700 MHZ. A DECREASE IN PENUMBRA AREA HAS OCCURRED IN THE N24W42 REGION, WHILE SOME PENUMBRA DEVELOPMENT HAS BEEN NOTED IN THE REGIONS AT N18E36 AND AT S10E24. ALL OTHER REGIONS ON THE DISK ARE DECLINING. THE GEOMAGNETIC FIELD HAS BEEN RELATIVELY QUIET DURING THE PAST 24 HOURS.

B. OCCASIONAL CLASS-C FLARES AND INFREQUENT CLASS-M FLARES ARE EXPECTED DURING THE THREE-DAY FORECAST PERIOD. THERE IS A SLIGHT CHANCE THAT A MINOR PROTON EVENT MAY BE DETECTED AT SATELLITE ALTITUDES AS A RESULT OF THE 22/1516Z FLARE. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN QUIET UNTIL ABOUT 25/0000Z, WHERE A DISTURBANCE IS EXPECTED TO BE PRODUCED BY A PASSING INTERPLANETARY SECTOR BOUNDARY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 DEC/1700Z ENDING 25 DEC/1700Z.

CLASS M OR GREATER 60/55/50

CLASS X 05/05/02

PROTON EVENTS 05/02/01

D. OTTAWA 10.7CM FLUX FOR 22/1400Z WAS 145. PREDICTED

10.7CM FLUX FOR 23-25 DEC IS 143/139/135.

E. MAGNETIC A-FREDERICKSBURG FOR 21 DEC WAS 02. FOR 22

DEC ABOUT 06. PREDICTED AP FOR 23-25 DEC IS 04/03/15.

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