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KMSC

HAUS BOU 130400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 839A ISSUED 0400Z 13 DECEMBER 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. THE FREQUENCY OF FLARES HAS REDUCED DURING THE PAST 11 HOURS. TWO CLASS M FLARES HAVE BEEN OBSERVED, M2, 12/1841Z OPTICAL I NORMAL FLARE IN REGION N16W11, M7, 12/2348Z OPTICAL SB FLARE IN REGION N11E18. THE MAJORITY OF ACTIVITY HAS BEEN OBSERVED FROM REGIONS N15W 3 WHICH IS CLASSIFIED A BETA GAMMA AND REGION N12E14, ALSO A BETA GAMMA WITH DELTA CONFIGURATION. THE REGION S04W39 HAS CONTINUED TO DEVELOP. OTHER REGIONS ARE QUIET. THE GEOMAGNETIC FIELD IS QUIET. THE COUNTING RATES ON ATS-1 ARE DECLINING.

B. CLASS M FLARES WILL CONTINUE FROM REGIONS N15W13 AND N12E14. ATS-1 COUNTS WILL CONTINUE TO DECLINE. THE GEOMAGNETIC FIELD WILL HAVE DISTURBED CONDITIONS AFTER 13/1700Z AS MENTIONED IN SDF 838B.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13 DEC/0400Z ENDING 16 DEC/0400Z

CLASS M OR GREATER 100/100/100

CLASS X 50/50/50

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUXES FOR 12/1700Z AND 12/2000Z WERE 195 AND 179 RESPECTIVELY.

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HAUS BOU 131700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 839B ISSUED 1700Z 13 DEC 1970

CLASS-M FLARES ARE ANTICIPATED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS DECREASED SLIGHTLY DURING THE PAST 13 HOURS; TWO CLASS-M1 FLARES AND SEVERAL RELATIVELY NON-ENERGETIC SUBFLARES HAVE BEEN OBSERVED. THE MOST SIGNIFICANT EVENT REPORTED CONSISTED OF A SMALL ONE-BRILLIANT CLASS-M1 FLARE AT 13/1252Z FROM THE REGION AT N15W22. THE ACTIVE CENTERS AT N15W22 AND N12E06 SEEM TO BE DECAYING SLOWLY; HOWEVER, BOTH REGIONS STILL APPEAR RELATIVELY DYNAMIC, AND A MAGNETIC DELTA CONFIGURATION MAY EXIST IN THE CENTRAL PORTION OF THE N12E06 REGION. THE S05W45 REGION HAS UNDERGONE CONTINUED DEVELOPMENT BOTH IN WHITE LIGHT AND IN H-ALPHA, BUT THIS REGION PRESENTLY APPEARS MAGNETICALLY SIMPLE AND HAS PRODUCED ONLY ONE SUBFLARE DURING THE PAST 24 HOURS. A NEW REGION CONTAINING BRIGHT PLAGE AND AN H-TYPE LEADER SPOT WITH MULTIPLE UMBRAE IS CROSSING THE LIMB AT NE19, BUT SO FAR THIS REGION HAS PRODUCED NO ENERGETIC ACTIVITY. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST 24 HOURS. ATS-1 PROTON COUNTING RATES REACHED A MAXIMUM OF APPROXIMATELY 120 PARTICLES/CM2/SEC AT 5-20 MEV AT 13/1300Z. PRESENT COUNTING RATES ARE ABOUT 75 PARTICLES/CM2/SEC AT 5-20 MEV AND 1.5 PARTICLES/CM2/SEC AT 20-70 MEV.

B. SPORADIC CLASS-M FLARES FROM THE REGIONS AT N12E06 AND N15W22 ARE EXPECTED DURING THE THREE-DAY FORECAST PERIOD, BUT THE OVERALL LEVEL OF SOLAR ACTIVITY IS EXPECTED TO DECLINE. A GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN DURING THE NEXT 12 HOURS, AND ATS-1 PROTON COUNTING RATES PROBABLY WILL DECREASE FROM THE PRESENT LEVELS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13 DEC/1700Z ENDING 16 DEC/1700Z.

CLASS M OR GRATER 99/95/90

CLASS X 35/25/20

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX FOR 13/1400Z WAS 172. PREDICTED 10.7 CM FLUX FOR 14-16 DEC IS 170/165/164.

E. MAGNETIC A-FREDERICKSBURG FOR 12 DEC WAS 03. FOR 13 DEC ABOUT 07. PREDICTED AP FOR 14-16 DEC, 20/14/09.

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GREEN AURORA