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HAUS BOU 300400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 030A ISSUED 0400Z 30 JANUARY 1971

OCCASIONAL CLASS C AND ONE OR TWO CLASS M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A RELATIVELY LOW LEVEL DURING THE PAST 11 HOURS. A CLASS M1 ONE-NORMAL FLARE OCCURRED IN THE REGION AT S12E06 AT 29/2250Z, AND A FEW NON-ENERGETIC SUBFLARES HAVE BEEN OBSERVED IN SEVERAL OTHER REGIONS. DATA FROM THE MOUNT WILSON OBSERVATORY INDICATES AN INCREASE IN THE MAGNETIC GRADIENTS IN THE MID-SECTION OF THE REGION AT N08E40, AND PENUMBRA GROWTH HAS BEEN OBSERVED IN BOTH THE LEADER AND FOLLOWER SPOTS AT THAT SITE. FEW CHANGES HAVE BEEN NOTED IN THE S12E06 REGION. RECENT LIMB ACTIVITY INDICATES THAT NEW REGIONS ARE CROSSING THE LIMB AT ABOUT SE15 AND NE20. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE LAST 11 HOURS. ATS-1 PROTON COUNTING RATES HAVE DECREASED TO APPROXIMATELY 40 PARTICLES/CM2/SEC AT 5-20 MEV AND 5 PARTICLES/CM2/SEC AT 20-70 MEV.

B. DURING THE THREE-DAY FORECAST PERIOD, OCCASIONAL CLASS C FLARES AND ONE OR TWO CLASS M EVENTS PER DAY ARE EXPECTED TO BE PRODUCED BY THE REGIONS AT S12E04 AND N08E40. IF DEVELOPMENT OF THE N08E40 REGION CONTINUES, FLARES THERE PROBABLY WILL BECOME MORE FREQUENT AND MORE INTENSE. THE GEOMAGNETIC FIELD IS EXPECTED TO BE SOMEWHAT DISTURBED DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 JAN/0400Z ENDING 02 FEB/0400Z

CLASS M OR GREATER 85/85/35

CLASS X 10/10/10

PROTON EVENTS 10/05/05

D. OTTAWA 10.7 CM FLUXES FOR 29/1700Z AND 29/2000Z WERE BOTH 166.

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HAUS BOU 301730.

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 30B ISSUED 1700Z 30 JAN 1971

CLASS C AND INFREQUENT SMALL M FLARES ARE EXPECTED IN THE NEXT 11 HRS.

A. THERE HAS BEEN ONLY MINOR ACTIVITY THE PAST 13 HOURS. NO SIGNIFICANT DEVELOPMENT HAS BEEN NOTED IN CURRENT DISK REGIONS. SURGE ACTIVITY IS OCCURRING AT SW21-23 AND SE10 BUT NO SIGNIFICANT TERRESTRIAL EFFECTS HAVE BEEN NOTED. IN ADDITION TO THE SE LIMB REGION, THERE IS SOME EVIDENCE OF A REGION RETURNING ON THE NE LIMB. THE GEOMAGNETIC FIELD HAS REMAINED DISTURBED THE PAST 13 HOURS.

B. MINOR FLARES ARE EXPECTED FROM THE N06E30 AND S12W05 REGIONS AND ARE POSSIBLE FROM SEVERAL OTHER SCATTERED SOURCES. CURRENT DATA SHOWS LITTLE EVIDENCE OF ENERGETIC ACTIVITY IN EITHER OF THE EAST LIMB REGIONS. THE GEOMAGNETIC DISTURBANCE IS EXPECTED TO PERSIST THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 JAN/1700Z ENDING 02 FEB/1700Z.

CLASS M OR GREATER 75/75/75

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX FOR 30/1400Z WAS 166.9. PREDICTED 10.7 CM FLUX FOR 31 JAN-02 FEB IS 168/168/168.

E. MAGNETIC A-FREDERICKSBURG FOR 29 JAN WAS 13. FOR 30 JAN ABOUT 12 PREDICTED AP FOR 31 JAN-02 FEB, 12/12/10.

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