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KBOU

HAUS BOU 230400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 113A ISSUED 0400Z 23 APRIL 1971

CLASS M FLARES ARE LIKELY DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY REMAINED AT A MODERATE LEVEL DURING THE PAST 11 HOURS, AND THE ONLY ENERGETIC EVENT REPORTED CONSISTED OF A CLASS M3 SUB-NORMAL FLARE AT 22/2200Z FROM THE N20W72 REGION.

GRADUAL DEGENERATION OF THE MAGNETICALLY COMPLEX SPOT GROUP AT N21W62 IS IN PROGRESS, BUT THE PLAGE CONTINUES TO EXHIBIT FLUCTUATIONS. THE N20W72 REGION IS DEVELOPING AND CONTAINS BRIGHT PLAGE AND A TORTUOUS LONGITUDINAL NEUTRAL LINE. OTHER ACTIVE CENTERS ARE RELATIVELY UNIMPRESSIVE. UNSETTLED GEOMAGNETIC CONDITIONS HAVE BEEN OBSERVED DURING THE PAST 13 HOURS. THE PRESENT PROTON COUNTING RATES ON THE ATS-1 GEOSTATIONARY SATELLITE ARE ABOUT 5 PARTICLES/CM2/SEC AT 5-21 MEV AND 0.8 PARTICLES/CM2/SEC AT 21-70 MEV.

B. DURING THE THREE-DAY FORECAST PERIOD, THE REGIONS AT N21W61 AND N20W71 ARE EXPECTED TO PRODUCE SPORADIC CLASS C AND SMALL CLASS M FLARES. THERE IS A SMALL CHANCE THAT ONE OF THESE REGIONS ALSO MAY PRODUCE A LARGE CLASS M OR SMALL CLASS X EVENT, POSSIBLY ACCOMPANIED BY PROTONS. A MINOR GEOMAGNETIC STORM IS EXPECTED TO BEGIN WITHIN THE NEXT 13 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 APR/0400Z ENDING 26 APR/0400Z.

CLASS M OR GREATER 75/80/70

CLASS X 10/15/10

PROTON EVENTS 10/15/10

D. OTTAWA 10.7 CM FLUXES FOR 22/1700Z AND 22/2000Z WERE 119 AND 118 RESPECTIVELY.

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HAUS BOU 231700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 113B ISSUED 1700Z 23 APRIL 1971

CLASS M FLARES ARE EXPECTED.

A. A CLASS M1 FLARE WAS OBSERVED AT 0724Z AT N20W68. OPTICALLY, IT WAS A SUBNORMAL. THIS CENTER HAS PRODUCED CLASS M EVENTS AT THE RATE OF ABOUT TWO PER DAY. WEATHER CONDITIONS HAVE INHIBITED OBSERVATIONS AT MOST OBSERVATORIES, BUT THE TREND IS APPARENTLY FOR CONTINUED PLAGE ACTIVITY WHILE THE SPOTS DECLINE AND SIMPLIFY. PROTON COUNTING RATES AT SATELLITE ALTITUDES ARE NOW NEAR BACKGROUND.

B. CONTINUED OCCASIONAL CLASS M FLARES ARE EXPECTED FROM THE REGIONS APNROACHING WEST LIMB. UNLESS NEW REGIONS ARE DEVELOPING BEHIND EAST LIMB, SOLAR MINIMUM-TYPE CONDITIONS WILL PREVAIL IN APPROXIMATELY TWO DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 APR/1700Z ENDING 26 APR/1700Z.

CLASS M OR GREATER 80/80/60

CLASS X 15/15/10

PROTON EVENTS 15/15/15

D. OTTAWA 10.7 CM FLUX FOR 23/1400Z WAS 121. PREDICTED 10.7 CM FLUX FOR 24-26 APR IS 115/110/105.

E. MAGNETIC A-FREDERICKSBURG FOR 22 APR WAS 22. FOR 23 ABOUT 09 PREDICTED AP FOR 24-26, 08/06/05.

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