

NNNN0349

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KMSC

HAUS BOU 290400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 580A ISSUED 0400Z 29 MARCH 1970

CLASS C FLARES ARE EXPECTED AND CLASS M FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. DURING PAST 11 HOURS ONLY ONE MAJOR FLARE WAS OBSERVED. AT 29/0011Z IN REGION N13W38 A SMALL SUBFLARE STARTED AND PEAKED AT 0012Z, HAD A SECOND MAXIMUM AT 0033Z AND AT 0038Z FLARE INCREASED IN AREA TO CLASS 2B WITH MAXIMUM AT 0048Z. THE FLARE LASTED UNTIL 29/0155Z. THE FLARE PRODUCED AN INCREASE OF 1070 PERCENT IN 10CM FLUX. THE LOCATION OF THE REGION THAT PRODUCED THE FLARE AND THE SIZE OF THE RADIO BURST WOULD MAKE THIS A POSSIBLE PROTON FLARE. ATIS-1 20-70 MEV IS STARTING TO SHOW AN INCREASE IN PROTON COUNT. THE GEOMAGNETIC FIELD REMAINS DISTURBED.

B. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL. IT IS VERY PROBABLE THAT PROTONS WILL BE DETECTED ON EARTH SENSOR DURING THE NEXT 13 HOURS. THE MAGNETIC DISTURBANCE WILL INCREASE DURING NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 MAR/0400Z ENDING 1 APR/0400Z

CLASS M OR GREATER 50/50/50

CLASS X 10/10/10

PROTON EVENTS 50/10/10

D. OTTAWA 10.7 CM FLUX 28/1700Z AND 2000Z WERE 154 AND 153 RESPECTIVELY.

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HAUS BOU 291715Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 580B ISSUED 1700Z 29 MARCH 1970

INFREQUENT CLASS M FLARE ACTIVITY EXPECTED DURING THE NEXT
11 HOURS.

A. SINCE OUR LAST FORECAST, 580A, THERE HAS BEEN ONLY MINOR SOLAR ACTIVITY, IN FACT, A TOTAL OF TWO SUBFLARES HAVE BEEN RECORDED. THE DISK LOOKS UNCHANGED (ALTHOUGH HAMPERED BY POOR SEEING) BUT SOME BRIGHTENING AND SURGING CAN BE SEEN AT N10E. GEOPHYSICALLY, ITS A HORSE OF A DIFFERENT COLOR WITH ATS-1 SATELLITE SHOWING ENHANCED PROTON FLUXES. (100 PARTICLES/SQ CM/SEC, 20-70 MEV; 415 PARTICLES/SQ CM/SEC, 5-20 MEV). POLAR CIRCUITS INDICATE MINOR POLAR CAP ABSORPTION. GROUND BASE NEUTRON COUNTING RATES REMAIN NORMAL. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. THE ENHANCED PROTON FLUXES ARE EXPECTED TO PRODUCE A MODERATELY DISTURBED GEOMAGNETIC FIELD DURING THE NEXT 24 HOURS. AN OCCASIONAL CLASS M EVENT IS EXPECTED FROM THE REGION NEAR N14W46. TWO REGIONS ACTIVE DURING THE LAST ROTATION WILL RETURN TO THE DISK TOMORROW WITH THE EFFECT OF KEEPING THE 10CM FLUX AND FLARE PROBABILITIES FROM DECLINING.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 MAR/1700Z ENDING 01 APR/1700Z.

CLASS M OR GREATER 70/60/60

CLASS X 15/15/15

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 152. PREDICTED 155/157/160.

E. MAGNETIC A-FREDERICKSBURG FOR 28 MARCH WAS 15. FOR 29 MARCH ABOUT 15. PREDICTED AP FOR 30 MARCH-01 APRIL, 25/20/10.

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