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HAUS BOU 150500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 135A ISSUED 0500Z 15 MAY 1971

CLASS C FLARES ARE EXPECTED AND CLASS M FLARES ARE PROBABLE DURING THE NEXT 24 HOURS.

A. A CLASS M2 EVENT OCCURRED 14/1758Z. NO OPTICAL EVENTS WERE OBSERVED AT THIS TIME WHICH INDICATES THE EVENT WAS PROBABLY FROM REGION 066 WHICH HAS PASSED THE WEST LIMB. FLARE ACTIVITY HAS BEEN LOW SINCE THE 2B FLARE AT 14/1411Z. TWO NEW GROUPS HAVE DEVELOPED, A C TYPE SPOT AT N12E22, AND A BIPOLAR WITH A B TYPE SPOT AT SGQWE45. THE REGION N03E30 (078) HAS SHOWN SOME GROWTH AND DEVELOPMENT. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED. THE ATS-1 COUNTS ARE 5-20 MEV 9P/CM2/SEC AND 20-70 MEV 1P/CM2/SEC AND ARE STARTING TO DECLINE.

B. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL WITH CLASS C FLARES AND AN OCCASIONAL CLASS M FLARE. THE GEOMAGNETIC FIELD WILL REMAIN DISTURBED FOR THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 15 MAY/0000Z ENDING 17 MAY/2400Z

CLASS M OR GREATER 60/60/60

CLASS X 10/10/10

PROTON EVENTS 10/10/10

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HAUS BOU 152200

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 135B ISSUED 2200Z <sup>15</sup>QT MAY 1971

CLASS C FLARES AND PERHAPS ONE CLASS M FLARE ARE LIKELY DURING THE NEXT 24 HOURS.

A. DURING THE PAST 17 HOURS, ONLY A FEW CLASS C FLARES HAVE BEEN REPORTED. THE REGION AT N04E18 (REGION 078) PRESENTLY IS THE MOST IMPRESSIVE DISK FEATURE, CONTAINING COMPACT PLAGE, STRONG MAGNETIC FIELD GRADIENTS, AND A DEVELOPING SPOT GROUP. THE REGION AT N04W07 (REGION 075) STILL CONTAINS A RELATIVELY SMALL SPOT GROUP (D/40) BUT HAS PRODUCED PLAGE BRIGHTENINGS RECENTLY. WEAK 1420 MHZ COMPLEX BURSTS OCCURRED AT 15/1620Z AND AGAIN AT 1735Z WITHOUT APPARENT OPTICAL SOURCES, SUGGESTING THAT REGION 66, NOW BEHIND THE WEST LIMB, PRODUCED THESE EMISSIONS. A NEW OPEN D-TYPE REGION HAS DEVELOPED DURING THE LAST 24 HOURS AT N12E07, BUT THE PLAGE IS UNIMPRESSIVE. OTHER REGIONS ARE STABLE. THE GEOMAGNETIC FIELD HAS EXHIBITED UNSETTLED CONDITIONS DURING THE PAST 17 HOURS. ATS-1 PROTON COUNTING RATES REMAIN SLIGHTLY ENHANCED BUT ARE DECREASING SLOWLY.

B. SOLAR ACTIVITY IS EXPECTED TO CONSIST OF SPORADIC CLASS C FLARES AND PERHAPS TWO OR THREE SMALL CLASS M FLARES DURING THE NEXT THREE DAYS. THE GEOMAGNETIC FIELD PROBABLY WILL BECOME SLIGHTLY DISTURBED AT ABOUT 16/1600Z, AND SLIGHT DISTURBANCE PROBABLY WILL CONTINUE FOR AT LEAST 36 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 MAY/0000Z ENDING 18 MAY/2400Z.

CLASS M OR GREATER 70/75/75

CLASS X 10/10/10

PROTON EVENTS 10/10/15

D. OTTAWA 10.7 CM FLUXES FOR 15/1400Z - 15/1700Z AND 15/2000Z WERE 116 - 116 AND 112 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 16-18 MAY IS 110/108/108.

E. MAGNETIC A-FREDERICKSBURG FOR 14 MAY WAS 15. FOR 15 MAY ABOUT 10 PREDICTED AP FOR 16-18 MAY, 14/18/16.

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