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HFUS BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 067 ISSUED 2200Z 07 MARCH 1972

CLASS M ACTIVITY IS EXPECTED.

A. AVAILABLE DATA INDICATE THAT NO EVENTS HAVE EXCEEDED CLASS M THRESHOLD DURING THE PAST 24 HOURS. SEVERAL EVENTS HAVE, HOWEVER, PRODUCED SIGNIFICANT RADIO EMISSION. THE LARGEST BURST AMOUNTED TO 210 FLUX UNITS AT 2700 MHZ AND ACCOMPANIED A SUB-BRIGHT FLARE AT 07/0216Z. A STRONG RADIO NOISE STORM IS IN PROGRESS AT METER WAVELENGTHS. THE LARGE LEADER SPOT IN REGION 086 CONTINUES TO ROTATE SLOWLY COUNTER CLOCKWISE. SEVERAL SMALL SPOTS HAVE EMERGED AROUND THE LARGE LEADER AND TRAILER SPOTS, AND ARCH FILAMENTS AROUND THE TRAILER INDICATE THAT ADDITIONAL NEW FIELDS ARE PROBABLY EMERGING. A MAGNETIC DELTA CONFIGURATION IS NOW PRESENT IN THE TRAILER. A RETURNING REGION, 092 NEAR N17E72, HAS CROSSED THE EAST LIMB. CONTINUING SURGES ON THE NE LIMB INDICATE THAT ADDITIONAL REGIONS ARE COMING. THE LITTLE ATS-1 DATA WHICH IS AVAILABLE SHOWS THERE WAS NO SIGNIFICANT PROTON ENHANCEMENT AT 21-70 MEV. THE FLUX AT 5-21 MEV WAS ABOUT 10 PARTICLES CM-2 SEC-1 AT 07/0200Z AND 5 AT 07/1630Z. THE GEOMAGNETIC FIELD IS NOW QUIET AFTER A MINOR GEOMAGNETIC STORM THROUGH THE NIGHT. BETWEEN 06/2100Z AND 07/1200Z FREDERICKSBURG OBSERVED K-INDICES OF 6, 5, 5, 5 AND 4. DURING THE SAME PERIOD TUCSON OBSERVED 7, 5, 6, 6 AND 5.

B. ENERGETIC ACTIVITY, UP TO CLASS X, IS EXPECTED FROM REGION 086. SATELLITE LEVEL PROTON ENHANCEMENTS WILL LIKELY FOLLOW LARGE CLASS M OR CLASS X ACTIVITY. SOME GEOMAGNETIC DISTURBANCE IS EXPECTED TO RECUR THROUGH THE NIGHT AND UNSETTLED CONDITIONS SHOULD CHARACTERIZE THE REST OF THE 72 HOUR PERIOD.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 08 MAR/0000Z ENDING 10 MAR/2400Z.

CLASS M OR GREATER 90/90/90

CLASS X 15/15/15

PROTON EVENT 20/20/20

D. OTTAWA 10.7 CM FLUXES FOR 07/1400Z, 1700Z AND 2000Z WERE 144, 146 AND 142. PREDICTED 10.7 CM FLUXES FOR 08-10 MARCH ARE 148/149/148.

E. MAGNETIC A-FREDERICKSBURG FOR 06 MAR WAS 09. FOR 07 MAR ABOUT 30. PREDICTED AP FOR 08-10 MAR ARE 21/14/12.

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