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HFUS BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 048 ISSUED 2200Z 17 FEBRUARY 1972

CLASS M ACTIVITY EXPECTED

A. ONE VERIFIED CLASS M EVENT HAS OCCURRED DURING THE PAST 24 HOURS -- A CLASS M1 SUBFAINT AT 16/2252Z IN REGION 067 /N08E60/. HOWEVER, SMALL TO MODERATE INTENSITY IONOSPHERIC DISTURBANCES WERE OBSERVED AT 17/1755Z, 1830Z, 1930Z AND 2030Z. THE 17/1930Z EVENT MAY HAVE BEEN RELATED TO SUBFLARE ACTIVITY IN REGION 051 /S17W16, 052 /N24W13/, OR 048 /N17W42/. THE OTHER EVENTS DID NOT CORRELATE WITH ACTIVITY ON THE DISK AND WERE PROBABLY RELATED TO SURGE ACTIVITY ON THE EAST LIMB NEAR S18. A 2700 MHZ RADIO BURST WITH PEAK FLUX NEAR 500 FLUX UNITS AT 17/2122Z ACCOMPANIED SOME ESPECIALLY BRIGHT SURGES NEAR SE18. THE OTTAWA 10.7 CM FLUX IS HIGHER THAN IT HAS BEEN SINCE LATE JANUARY 1971. THE GEOMAGNETIC FIELD IS UNSETTLED.

B. TWO TO FIVE CLASS M EVENTS PER DAY ARE EXPECTED FOR THE NEXT THREE DAYS. IN ADDITION CLASS X EVENTS ARE POSSIBLE. THREE DISK COMPLEXES ARE POTENTIAL SOURCES OF SUCH ACTIVITY- 051/061/063 /S17W16/, 060 /S14E38/, AND 066/067/069 /N08E60/. A FOURTH ACTIVE COMPLEX IS APPARENTLY APPROACHING THE EAST LIMB NEAR S18. UNSETTLED TO ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED FOR THE NEXT 48 HOURS.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 FEB/0000Z ENDING 20 FEB/2400Z.

CLASS M OR GREATER 95/95/95

CLASS X 20/20/20

PROTON EVENTS 20/25/25

D. OTTAWA 10.7CM FLUXES FOR 17/1400Z AND 1700Z WERE BOTH 172.

PREDICTED 10.7CM FLUXES FOR 18-20 FEB ARE 174/176/174.

E. MAGNETIC A-FREDERICKSBURG FOR 16 FEB WAS 05. FOR 17 FEB ABOUT 15. PREDICTED AP FOR 18-20 FEB ARE 17/17/12.

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