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HFUS BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 049 ISSUED 2200Z 18 FEB 1972

CLASS M ACTIVITY EXPECTED.

A. AN EVENT FROM BEHIND THE SOUTHEAST LIMB AT 17/2030Z WAS CLASS XI WITH A DURATION OF 240 MINUTES AT 1-8A. THE 500 FLUX UNIT 2700 MHZ BURST WHICH WE MENTIONED IN YESTERDAY'S MESSAGE OCCURRED DURING THE DECAYING PHASE OF THE X-RAY BURST. BOTH X-RAY AND RADIO BURST APPARENTLY EMANATED FROM A SINGLE ENERGETIC FLARE IN REGION 070 /S16E82/. REGION 070 IS NOT YET COMPLETELY ON THE DISK; AN H TYPE SPOT FOLLOWED BY BRIGHT PLAGE CAN BE SEEN. NO CLASS M ACTIVITY HAS OCCURRED SINCE THE 17/2030Z EVENT. OF THE MAJOR REGIONS ON THE DISK, REGION 051 /S17W28, D/220/ IS MAGNETICALLY COMPLEX BUT ITS PLAGE IS NOT AS BRIGHT AS IT WAS EARLIER IN THE WEEK; REGION 060 /S14E25, D/250/ IS GROWING AND BRIGHT; AND REGION 067 /N08E46, E/770/ SHOWS SIGNIFICANT PENUMBRAL GROWTH IN ITS LARGE LEADER AND SATELLITE SPOTS, POSSIBLY OF FOLLOWING POLARITY, ARE EMERGING AROUND THIS LEADER SPOT. BOTH X-RAY AND RADIO FLUXES ARE HIGH. THE GEOMAGNETIC FIELD WAS UNSETTLED THROUGH 18/0900Z.

B. ENERGETIC EVENTS UP TO CLASS X ARE EXPECTED DURING THE NEXT THREE DAYS. ACTIVE CENTERS 051/061, 060, 066/067, AND 070 ARE ALL JUDGED CAPABLE OF PRODUCING SUCH ACTIVITY. THE GEOMAGNETIC FIELD WILL BE UNSETTLED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 FEB/0000Z ENDING 21 FEB/0000Z.

CLASS M OR GREATER 95/95/95

CLASS X 20/20/20

PROTON EVENT 25/25/25

D. OTTAWA 10.7CM FLUXES FOR 18/1400Z 1700Z AND 2000Z WERE 189, 198 AND 193. PREDICTED 10.7CM FLUXES FOR 19-21 FEB ARE 190/188/186.

E. MAGNETIC A-FREDERICKSBURG FOR 17 FEB WAS 15. FOR 18 FEB ABOUT 08. PREDICTED AP FOR 19-21 FEB ARE 13/12/10.

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