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HFUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 054 ISSUED 2200Z 23 FEB 1972.

CLASS M ACTIVITY EXPECTED. SLIGHT CHANCE OF CLASS X EVENT.

A. FLARE ACTIVITY FROM REGIONS 066/N12W13 AND 067/N08W18 HAS DECREASED SINCE YESTERDAY. REGION 066 WAS THE SOURCE OF A CLASS X-1 EVENT AT 1326Z ON 22 FEB. TODAY'S ENERGETIC ACTIVITY HAS BEEN LIMITED TO A CLASS M-1 FROM REGION 067 AT 1324Z AND A CLASS M-1 AT 0700Z AND TWO CLASS C EVENTS FROM REGION 070/S17E22. THE GEOMAGNETIC FIELD IS QUIET. ATS-1 PROTON FLUXES HAVE RETURNED TO BACKGROUND LEVELS.

B. CLASS M ACTIVITY IS EXPECTED TO CONTINUE FROM REGIONS 066/067 AND 070. THESE REGIONS CONTINUE TO SHOW COMPLEX MAGNETIC STRUCTURE. HOWEVER, THE STRONG DELTA CONFIGURATION IN REGION 067 HAS WEAKENED SO THE CHANCE OF A CLASS X EVENT HAS DECREASED. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET AT LOW LATITUDES.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24 FEB/0000Z ENDING 26 FEB/2400Z.

CLASS M OR GREATER 95/90/90

CLASS X 15/10/10

PROTON EVENT 15/10/10

D. OTTAWA 10.7 CM FLUXES FOR 23/1400Z, 1700Z AND 2000Z WERE 180, 179 AND 177. PREDICTED 10.7 CM FLUXES FOR 24-26 FEB ARE 170/160/150.

E. MAGNETIC A-FREDERICKSBURG FOR 22 FEB WAS 03. FOR 23 FEB ABOUT 05. PREDICTED AP FOR 24-26 FEB ARE 08/08/05.

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SESC-PRF 068 ISSUED 23 FEBRUARY 1972

HIGHLIGHTS FOR 15-22 FEBRUARY 1972.

THIS WEEK HAS SEEN SOLAR PARAMETERS AT A HIGH LEVEL. OTTAWA 2800 MHZ FLUX REACHED 210 F.U. ON 20 FEBRUARY, THIS IS THE FIRST TIME THIS FLUX HAS ATTAINED 200 SINCE NOVEMBER, 1970. AT THAT TIME AN ACTIVE REGION CROSSED THE DISK AT N16 L-035 PRODUCING 34 CLASS M AND 8 CLASS X EVENTS. THE 1-8A X-RAY FLUX HAS BEEN AT OR ABOVE THE CLASS C THRESHOLD /10-3 ERGS/CM² SEC/ SINCE 14 FEBRUARY. MCMATH PLAGE 734, WHICH CONTAINED SUNSPOT GROUPS 051 AND 061, PRODUCED A CLASS M2 ON 15 FEBRUARY. THE REGIONS DECAYED SUBSEQUENTLY AND ONLY 051 /S17W80, L-097/ REMAINS AS A UNIPOLAR H-TYPE SPOT. MCMATH PLAGE 748 CONTAINING SUNSPOT GROUPS 067 /N07W07, L-024, CLASS/AREA E/670, BETA GAMMA DELTA/ AND 066 /N12W01, L-018, CLASS/AREA D/130/ HAS PRODUCED EIGHT CLASS M EVENTS SINCE CROSSING EAST LIMB ON 16 FEBRUARY. MCMATH PLAGE 751 WITH SUNSPOT GROUP 070 /S17E34, L-343, CLASS/AREA E520/ HAS PRODUCED THREE CLASS M AND ONE CLASS X EVENT SINCE ITS APPROACH TO THE EAST LIMB ON 17 FEBRUARY. THE MOST SIGNIFICANT EVENT FOR REGION 067 WAS A IB FLARE AT 22/0030Z, M-9 X-RAY EVENT, AND APPROXIMATELY 1200 F.U. AT 2700 MHZ IN AN IMPULSIVE BURST AT 0033Z. PRIOR TO ITS EAST LIMB ARRIVAL, REGION 070 PRODUCED A CLASS X-1 EVENT AT 17/2030Z /240 MINUTE DURATION 1-8A/ ACCOMPANIED BY BRIGHT SURGES. MICROWAVE RADIO BURSTS WERE DELAYED WITH A 2700 MHZ BURST OF NEARLY 200 F.U. AT 17/2122Z. IMPORTANCE 2 SIDS OCCURRED WITH THIS EVENT.

THE GEOMAGNETIC FIELD WAS UNSETTLED ON 15, 17, 18, 19 AND 20 FEBRUARY. THE HIGHEST A-INDICES WERE ON 17 FEBRUARY WITH FREDERICKSBURG HAVING 15 AND ANCHORAGE HAVING 36.

FORECAST FOR 24 FEBRUARY-01 MARCH 1972.

MEDIUM TO LARGE CLASS M ACTIVITY, AT THE RATE OF 1-5 EVENTS PER DAY, IS EXPECTED FROM REGIONS 066/067 AND REGION 070. CLASS X AND/OR PROTON EVENTS ARE POSSIBLE FROM REGIONS 066/067. UNSETTLED GEOMAGNETIC CONDITIONS ARE EXPECTED 24-26 FEBRUARY WITH QUIET CONDITIONS TO FOLLOW.

28-DAY FORECAST FOR 24 FEBRUARY-22 MARCH 1972.

SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A MODERATE TO HIGH LEVEL THROUGH 01 MARCH. ACTIVITY IS EXPECTED TO BE LOW TO MODERATE UNTIL 13 MARCH AND THEN BECOME MODERATE. UNSETTLED GEOMAGNETIC CONDITIONS ARE EXPECTED 24-26 FEBRUARY, 12-14 AND 16-19 MARCH.

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