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HFUS BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 132 ISSUED 2200Z 11 MAY 1972

A. PRELIMINARY DATA INDICATE THAT A CLASS M1 X-RAY BURST ACCOMPANIED A FLARE-SURGE FROM BEYOND THE EAST LIMB NEAR S09 AT 11/1723Z. THE EVENT ALSO PRODUCED A COMPLEX BURST OF 28 FLUX UNITS AT 2700 MHZ. THE ACTIVE CENTER RESPONSIBLE FOR THIS EVENT IS PROBABLY A RETURN OF OLD REGION 148. LIMB ACTIVITY FROM THIS AREA HAS BEEN DESCRIBED AS "ENERGETIC". SMALL CLASS C SUBFLARES HAVE EMANATED FROM REGIONS 176 /S13W42/ AND 180 /N17W40/. SEVERAL OTHER SMALL CLASS C X-RAY BURSTS WHICH CANNOT BE CORRELATED WITH OPTICAL ACTIVITY MAY HAVE ORIGINATED FROM BEYOND THE SE LIMB. REGION 176 CONTINUES TO DECAY SLOWLY. REGION 180 IS APPARENTLY STILL DEVELOPING. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. AN INCREASE IN ACTIVITY IS EXPECTED DURING THE NEXT 72 HOURS. SUBFLARES ARE EXPECTED FROM REGIONS 176, 180, AND 184 /S07E45/. SMALL CLASS M EVENTS ARE POSSIBLE FROM REGION 180 AND THE SE LIMB. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME UNSETTLED TO ACTIVE ON 13-14 MAY AS A SECTOR BOUNDARY ROOTED IN THE VICINITY OF REGIONS 176 AND 180 SWEEPS PAST THE EARTH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 12 MAY/0000Z ENDING 14 MAY/2400Z.

CLASS M OR GREATER 40/45/50

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUXES FOR 11/1400Z, 11/1700Z AND 11/2000Z WERE 138, 140 AND 138 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 12-14 MAY IS 142/145/148.

E. MAGNETIC A-FREDERICKSBURG FOR 10 MAY WAS 10. FOR 11 MAY ABOUT 06. PREDICTED AP FOR 12-14 MAY IS 05/15/18.

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