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HFUS BOU 312200

FROM SPACE ENVIRONMENTS SERVICES CENTER BOULDER COLO

SDF NUMBER 152 ISSUED 2200Z 31 MAY 1972

A. REGION 210/N09W11/ REMAINS MAGNETICALLY COMPLEX WITH A LARGE DELTA CONFIGURATION IN THE LEADER SPOT AND A SMALL DELTA CONFIGURATION IN THE FOLLOWER SPOT. AN INCREASE IN FOLLOWER PLAGE IN THE SOUTHERN PART OF THE REGION HAS OCCURRED SINCE YESTERDAY. THIS APPEARS TO BE ASSOCIATED WITH THE CONVERGENCE OF FIELD LINES CAUSED BY A GENERAL COUNTER CLOCKWISE ROTATION OF THE MOST WESTERN SPOT RATHER THAN THE EMERGENCE OF NEW FIELD LINES. THE LARGEST EVENT FROM THIS REGION TODAY WAS A CLASS C8 AT 0541Z. A NEW REGION, NUMBER 119 AT S07E65, HAS APPEARED SINCE YESTERDAY. ALTHOUGH IT IS MAGNETICALLY SIMPLE, IT DID PRODUCE AN M-2 EVENT AT 31/0954Z. THE GEOMAGNETIC FIELD WAS ACTIVE BETWEEN 00-09Z TODAY, BUT IT IS NOW QUIET. THE PROTON EVENT CONTINUES WITH ATS-1 5-21 MEV FLUX OF 100 PARTICLES CM-2 SEC-1 AT 31/2000Z.

B. THE GENERAL EVOLUTION OF REGION 210 INDICATES THE CHANCE OF CLASS X ACTIVITY IS DECREASING. HOWEVER, A MODERATE CLASS M EVENT IS STILL POSSIBLE. CLASS C ACTIVITY AND A POSSIBLE SMALL CLASS M EVENT IS EXPECTED FROM REGION 119. THE GEOMAGNETIC FIELD SHOULD REMAIN QUIET DURING THE NEXT 24 HOURS. THE PROTON FLUX IS EXPECTED TO RETURN TO NEAR BACKGROUND LEVEL BY 01/1200Z.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 01 JUNE/0000Z ENDING 3 JUN/2400Z.

CLASS M OR GREATER 80/80/80

CLASS X 10/10/10

PROTON EVENTS 15/15/15

D. OTTAWA 10.7 CM FLUXES FOR 31/1400Z, 30/1700Z AND 30/2000Z WERE 119, 119 AND 119 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 01-03 JUN IS 121/123/124.

E. MAGNETIC A-FREDERICKSBURG FOR 30 MAY WAS 14. FOR 31 MAY ABOUT 12 PREDICTED AP FOR 01-03 JUN, 08/06/05.

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