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HXUS BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 150 ISSUED 2200Z 29 MAY 1972

A. REGION 210 (N08E14) PRODUCED A CLASS M5 IMPORTANCE 1B FLARE AT 29/1014Z AND A CLASS M1 SUBNORMAL AT 29/1338Z. A CLASS M1 EVENT AT 29/0226Z WAS NOT OBSERVED VISUALLY. THE 29/1014Z EVENT WAS ACCOMPANIED BY A 100 FLUX UNIT 2700 MHZ BURST AND MODERATE TO STRONG SID. REGION 210 HAS SHOWN SIGNIFICANT SPOT GROWTH AND REMAINS MAGNETICALLY COMPLEX WITH A PREDOMINANTLY EAST-WEST NEUTRAL LINE. TWO OLD REGIONS NEAR HELIOGRAPHIC LONGITUDE 090 ARE RETURNING--214 (S12E78, RETURN OF 176) AND 215 (N16E83, RETURN OF 180). THESE REGIONS PRODUCED FREQUENT SUBFLARES DURING THEIR LAST ROTATION; FOR THE MOST PART THE EVENTS WERE SMALL TO MEDIUM CLASS C. THE PROTON ENHANCEMENT FROM THE 28/1315Z FLARE HAS SHOWN A SLOWER RISE TIME AND A SMALLER FLUX THAN PREDICTED. THE 21-70 MEV FLUX REACHED AN APPARENT MAXIMUM OF 26 PARTICLES CM-2 SEC-1 AT 29/1600Z. THE 5-21 MEV FLUX HAS BEEN FLUCTUATING. THE HIGHEST FLUX RECORDED SO FAR HAS BEEN 479 PART CM-2 SEC-1 AT 29/1600Z. FLUX READINGS AT 29/2100Z WERE 453 AND 24. POLAR CAP ABSORPTION AT 30 MHZ HAS BEEN VARYING FROM 1.0 TO 1.5 DB SINCE 29/1015Z. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED.

B. ADDITIONAL ENERGETIC ACTIVITY, UP TO CLASS X, IS EXPECTED FROM REGION 210 DURING THE NEXT 72 HOURS. PROTON FLUXES NEAR EARTH WILL DECAY SLOWLY DURING THE NEXT 36 HOURS. A MINOR GEOMAGNETIC STORM IS EXPECTED TO BEGIN DURING THE INTERVAL 30/1200-1800Z.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 MAY/0000Z ENDING 01 JUNE/2400Z

CLASS M OR GREATER 85/85/85

CLASS X 15/15/15

PROTON EVENTS 15/15/15

D. OTTAWA 10.7 CM FLUXES FOR 29/1700Z WAS 113. PREDICTED 10.7 CM FLUX FOR 30 MAY-01 JUNE IS 115/118/121.

E. MAGNETIC A-FREDERICKSBURG FOR 28 MAY WAS 23. FOR 29 MAY ABOUT 12. PREDICTED AP FOR 30 MAY-01 JUNE IS 32/20/15.

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