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HFUS BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 112 ISSUED 2200Z 21 APRIL 1972

A. REGION 148 /S11W03/ HAS PRODUCED ABOUT TEN SUBFLARES DURING THE PAST 24 HOURS. THE MOST ENERGETIC EVENT WAS CLASS C9 OR POSSIBLE BORDERLINE M1 AT 21/1447Z. THE REGION ITSELF IS SLOWLY DEGENERATING. THE ARCH FILAMENTS VISIBLE IN THE REGION YESTERDAY HAVE NOT BEEN OBSERVED TODAY. THE REGION DOES REMAIN MAGNETICALLY COMPLEX AND ITS NEUTRAL LINE POSSESSES SEVERAL KINKS. OTHER VISIBLE REGIONS ARE SMALL WITH RELATIVELY FAINT AND SCATTERED PLAGES. A RADIO NOISE STORM IS IN PROGRESS AT METRIC WAVELENGTHS. THE PROTON DETECTORS ABOARD ATS-1 ARE CURRENTLY REGISTERING FLUXES OF 0.5 PART CM-2 SEC-1 AT 21-70 MEV /BACKGROUND/ AND 13 AT 5-21 MEV. THE GEOMAGNETIC FIELD WAS ACTIVE FROM 21/0030Z TO 21/1430Z.

B. SUBFLARE ACTIVITY IS EXPECTED FROM REGION 148 FOR THE NEXT 72 HOURS. A FEW EVENTS MAY REACH SMALL CLASS M. THE GEOMAGNETIC FIELD WILL BE QUIET DURING DAYTIME AND UNSETLED AT NIGHT.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 APR/0000Z ENDING 24 APR/2400Z.

CLASS M OR GREATER 40/35/30

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 21/1400Z, 21/1700Z AND 21/2000Z WERE ALL 106. PREDICTED 10.7 CM FLUX FOR 22-24 APR IS 105/104/105.

E. MAGNETIC A-FREDERICKSBURG FOR 20 APR WAS 07. FOR 21 APR ABOUT 17. PREDICTED AP FOR 22-24 APR, 10/10/08.

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SPAN