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HFUS BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 111 ISSUED 2200Z 20 APRIL 1972

A. WEATHER HAS SEVERELY HAMPERED OBSERVATIONS AT MOST OBSERVATORIES. SUBFLARES HAVE BEEN REPORTED FROM REGIONS 146 /S06W38/, 148 /S06E09/, 154 /S12W29/, AND A SPOTLESS PLAGE NEAR S12E60. ALL EVENTS HAVE APPARENTLY BEEN CLASS C. THE OLD STRUCTURE ASSOCIATED WITH REGION 148 APPEARS TO BE DECAYING SLOWLY BUT REMAINS MAGNETICALLY COMPLEX.

ARCH FILAMENTS IN THE SOUTHERN PART OF THE REGION INDICATE THAT NEW DEVELOPMENT MAY TAKE PLACE. OTHER REGIONS ARE SMALL AND STRUCTURALLY SIMPLE. NON-ENERGETIC SURGES ON THE EAST LIMB NEAR S10 INDICATE THAT A NEW REGION MAY BE APPROACHING. THE PROTON ENHANCEMENT WHICH BEGAN 18-19 APRIL HAS CONTINUED TO DECAY. THE 21-70 MEV CHANNEL IS NOW AT BACKGROUND /0.5 PART CM-2 SEC-1/ AND THE 5-21 MEV CHANNEL IS AT 60 PART CM-2 SEC-1. THE GEOMAGNETIC FIELD HAS BEEN QUIET SINCE 19/1500Z.

B. A GENERALLY LOW LEVEL OF ACTIVITY IS EXPECTED DURING THE NEXT 72 HOURS. SMALL CLASS M EVENTS ARE POSSIBLE FROM REGION 148. THE GEOMAGNETIC FIELD WILL BE QUIET TO MILDLY UNSETLED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 4 HOUR PERIODS BEGINNING 21 APR/0000Z ENDING 23 APR/2400Z.

CLASS M OR GREATER 40/40/40

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUXES FOR 20/1400Z, 20/1700Z AND 20/2000Z WERE 111, 110 AND 108 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 21-23 APR IS 106/105/105.

E. MAGNETIC A-FREDERICKSBURG FOR 19 APR WAS 08. FOR 20 APR ABOUT 05. PREDICTED AP FOR 21-23 APR IS 08/10/10.

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