

KBOU

HFUS BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 110 ISSUED 2200Z 19 APRIL 1972

A. SOLAR ACTIVITY IS AT A LOW LEVEL WITH THE MOST RECENT ENERGETIC EVENT A CLASS C-4 FLARE AT 18/2100Z FROM REGION 148 AT S08E27. ALTHOUGH OBSERVATIONS HAVE BEEN LIMITED, REPORTS INDICATE THAT THE BASIC STRUCTURE OF THIS REGION HAS NOT CHANGED SINCE YESTERDAY AND STILL HAS THE POTENTIAL TO PRODUCE A SMALL CLASS M EVENT. THE PROTON FLUXES AT SATELLITE ALTITUDES HAVE DECREASED BY AN ORDER OF MAGNITUDE SINCE YESTERDAY BUT STILL REMAIN ABOVE PRE-EVENT LEVELS WITH 2100Z ATS-1 FLUXES OF 66 PROTON PER CMSQ-SEC AT 5-20 MEV AND 1.4 PROTONS PER CMSQ-SEC AT 0-70 MEV. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS BUT IS PRESENTLY QUIET.

B. CLASS C ACTIVITY AND A SMALL CLASS M IS POSSIBLE FROM REGION 148. PROTON FLUXES ARE EXPECTED TO DECAY TO BACKGROUND LEVELS BY 21/0400Z. THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY QUIET WITH OCCASIONAL PERIODS OF UNSETTLED CONDITIONS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 APR/0000Z ENDING 22 APR/2400Z.

CLASS M OR GREATER 40/40/40

CLASS X 1/1/1

PROTON EVENTS 1/1/1

D. OTTAWA 10.7 CM FLUXES FOR 20/1400Z, 20/1700Z AND 20/2000Z WERE 115, 114 AND 114 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 20-22 APR IS 114/114/115.

E. MAGNETIC A-FREDERICKSBURG FOR 19 APR WAS 23. FOR 20 APR ABOUT 08 PREDICTED AP FOR 20-22 APR, 05/08/05.

SOLTERWARN

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