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HFUS BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 043 ISSUED 2200Z 12 FEB 1972.

A. REGION 051 /S16E48/ PRODUCED ANOTHER CLASS M3 FLARE BEGINNING AT 12/1402Z. OPTICALLY IT WAS CLASSED AS SN TO 1N. 10CM RADIO EMISSION REACHED ABOUT 175 FLUX UNITS OVER BACKGROUND. OTHER THAN ADDITIONAL SUBFLARES IN REGION 051, THE ONLY DISK ACTIVITY HAS BEEN A REORIENTATION OF THE UMBRA WITHIN THE LEAD PENUMBRA OF REGION 046 /S08E02/ AND PLAGE IN SAME AC HAS REMAINED AT NEAR-FLARE BRIGHTNESS. THE GEOMAGNETIC FIELD HAS REMAINED GENERALLY QUIET.

B. MORE OF THE SAME SORT OF ACTIVITY IS EXPECTED FROM REGION 051. THE LARGE FILAMENT SPIRALING OUT OF THE REGION AND EXTENDING TOWARD THE SOUTHEAST LIMB HAS BEEN DEVELOPING FOR THREE ROTATIONS. TODAY IT HAS BEEN ACTIVE FROM THE LIMB TO WITHIN THE REGION. ANOTHER FLARE IS PROBABLE IN THE NEXT FEW HOURS. A SSC REMAINS A POSSIBILITY IN THE NEXT 24 HOURS BUT THE ENSUING STORM IS NOT EXPECTED TO BE LARGE. THE GENERAL TREND FOR THE GEOMAGNETIC FIELD FOR THE NEXT 10 DAYS IS FOR K TO BE ABOUT ONE DURING LOCAL DAYTIME HOURS. AT LOCAL NIGHTTIMES CONTINUAL SUBSTORMS OF MODERATE INTENSITY ARE LIKELY WITH MIDLATITUDE K VALUES REACHING MOSTLY THREES AND FOURS.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13 FEB/0000Z ENDING 15 FEB/2400Z.

CLASS M OR GREATER 80/60/60

CLASS X 05/05/05

PROTON EVENT 05/08/10

D. OTTAWA 10.7 CM FLUXES FOR 12/1400Z, 1700Z AND 2000Z WERE 129, 127 AND 124. PREDICTED 10.7 CM FLUXES FOR 13-15 FEB ARE 128/129/130.

E. MAGNETIC A-FREDERICKSBURG FOR 11 FEB WAS 05. FOR 12 FEB ABOUT 05. PREDICTED AP FOR 13-15 FEB ARE 16/20/15.

SOLTERWARN

SPAN