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HFUS BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 218 ISSUED 2200Z 05 AUG 1972

A. REGION 331 /N14W12/ REMAINS LARGE AND MAGNETICALLY COMPLEX, HOWEVER, IT HAS ONLY PRODUCED SUBFLARE ACTIVITY SINCE THE ENERGETIC IMPORTANCE 2B FLARE AT 040621Z. A CORRIDOR HAS FORMED IN THE SOUTHERN PART OF THIS REGION'S LARGEST SPOT, SUGGESTING THAT ASSOCIATED MAGNETIC GRADIENTS MAY BE DECLINING. REGION 319 IS PRODUCING MINOR SURGE ACTIVITY AS IT ROTATES OFF THE SOUTHWEST LIMB. A MAJOR GEOMAGNETIC DISTURBANCE HAS BEEN IN PROGRESS SINCE 042100Z. ATS-1 PROTON FLUXES ARE PRESENTLY ABOUT 4500 PARTICLES PER CM SQ-SEC IN THE 5-21 MEV RANGE AND 270 PARTICLES IN THE 21-70 RANGE.

B. ENERGETIC FLARES ARE EXPECTED DURING THE FORECAST PERIOD. THE POSSIBILITY OF CLASS X ACTIVITY WILL DECLINE IF THE LARGE SPOT IN REGION 331 CONTINUES TO SEPARATE. THE GEOMAGNETIC FIELD WILL REMAIN DISTURBED DURING THE NEXT 72 HOURS, WITH THE MOST SEVERE CONDITIONS EXPECTED ON 06 AUG.

C. EVENT PROBABILITIES 06 AUG/0000Z-08 AUG/2400Z.

CLASS M 95/80/85

CLASS X 35/30/25

PROTON 35/35/35

D. OTTAWA 10.7CM FLUX

OBSERVED 05 AUG/1700Z 142

PREDICTED 06 AUG-08 AUG 140/136/132

E. A-FREDERICKSBURG

OBSERVED 04 AUG 86

ESTIMATED 05 AUG 120

PREDICTED 06 AUG-08 AUG 100-50-35

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