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HFUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 357 ISSUED 2200Z 23 DEC 1971

CLASS M FLARE PROBABLE.

A. REGION 380 /N15W80/ HAS PRODUCED SUBFLARES AT THE RATE OF ONE EVERY FOUR HOURS WITH ONE AT 23/0312Z BEING CLASSIFIED AS 1 NORMAL /TYPE C9/. A SMALL RADIO BURST /14 FU AT 2700 MHZ/ ACCOMPANIED THIS FLARE. THE MOST IMPRESSIVE FEATURE IS THE LARGE GROUP OF ACTIVE REGIONS IN THE SOUTH /S15/ BETWEEN W20 AND E30. THESE REGIONS /388, 391, 393, 394/ HAVE PRODUCED SEVERAL NONENERGETIC FLARES-CLASSIFIED AS SF OR SN. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. RETURNING REGIONS ARE NOT EXPECTED, HOWEVER OSO-7 DATA INDICATES SLIGHT ENHANCEMENTS ON SE LIMB. THE SERIES OF REGIONS IN THE SOUTH CENTRAL PORTION OF THE DISK-PARTICULARLY IN REGIONS 391 AND 394-SHOULD BECOME MORE ACTIVE AND PRODUCE SEVERAL M TYPE FLARES IN THE NEXT THREE DAYS. THE GEOMAGNETIC FIELD IS EXPECTED TO BE SLIGHTLY DISTURBED.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24 DEC/0000Z ENDING 26 DEC/2400Z.

CLASS M OR GREATER 80/80/80

CLASS X 15/15/10

PROTON EVENT 15/15/10

D. OTTAWA 10.7 CM FLUXES FOR 23/1400Z, 1700Z AND 2100Z WERE 139, 137 AND 138. PREDICTED 10.7 CM FLUXES FOR 24-25-26 DEC ARE 143/143/140.

E. MAGNETIC A-FREDERICKSBURG FOR 22 DEC WAS 17. FOR 23 DEC ABOUT 14. PREIDCTED AP FOR 24-25-26 DEC ARE 15/12/10.

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