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HFUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 083 ISSUED 2200Z 23 MAR 1972

FLARE ACTIVITY SHOULD BE RESTRICTED TO NON-ENERGETIC AND CLASS C FLARES WITH A SMALL CLASS M POSSIBLE.

A. AN UPSURGE IN SUNSPOT FORMATION AND GROWTH HAS OCCURRED DURING THE PAST 24 HOURS, WITH 11 SPOT GROUPS NOW VISIBLE ON THE DISK. CONCURRENTLY, THERE HAS BEEN AN INCREASE IN THE RATE OF OCCURRENCE OF NON-ENERGETIC SUBFLARES, WITH MORE THAN ONE FLARE PER HOUR REPORTED TODAY. THE TWO LARGEST REGIONS ARE REGION 117 AT N10W15 WHICH HAS BEEN DEVELOPING RAPIDLY DURING THE PAST TWO DAYS AND REGION 111 AT N09E12 WHICH HAS BEEN DEVELOPING IN THE LEADING PORTION. THE GEO-MAGNETIC FIELD IS QUIET.

B. CURRENT FLARE ACTIVITY SEEMS TO STEM FROM MASS FALLING INTO THE CHROMOSPHERE FROM DEVELOPING REGIONS RATHER THAN THE CONVERSION OF MAGNETIC ENERGY. THIS FLARE ACTIVITY SHOULD REMAIN NON-ENERGETIC AND THE RATE OF OCCURRENCE DECREASE AS THE REGIONS STABILIZE DURING THE NEXT 24 HOURS. HOWEVER, A SMALL CLASS M IS POSSIBLE FROM REGION 111. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24 MAR/0000Z ENDING 26 MAR/2400Z.

CLASS M OR GREATER 30/30/30

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 23/1400Z, 23/1700Z AND 23/2000Z WERE 139, 144 AND 142 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 24-26 MAR ARE 141/138/138.

E. MAGNETIC A-FREDERICKSBURG FOR 22 MAR WAS 08. FOR 23 MAR ABOUT 06. PREDICTED AP FOR 24-26 MAR, 08/05/05.

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