

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 062

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS. TWO M1 FLARES FROM UNKNOWN SOURCES WERE OBSERVED AT 020436Z (MAX) AND 021252Z (MAX). THE MOST LIKELY SOURCE OF THESE TWO EVENTS IS REGION 4422 (N11W86) WHICH WILL SHORTLY ROTATE OUT OF VIEW. THE LARGEST REMAINING REGION WILL BE 4423 (S12W43). THIS REGION CONTINUES TO GROW BUT REMAINS A SIMPLE BETA IN MAGNETIC STRUCTURE. REGIONS 4426 (S12W72) AND 4427 (S12E21) HAVE NOT CHANGED MUCH SINCE YESTERDAY. REGION 4428 (N06E28) WAS NUMBERED TODAY AND IS A SIMPLE C TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO MODERATE FOR THE COMING 24 HOURS. REGIONS 4422 AND 4423 ARE THE MOST LIKELY CANDIDATES FOR PRODUCING M FLARES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD WAS AT STORM LEVELS DURING THE EARLY PART OF THIS PERIOD BECOMING UNSETTLED TO ACTIVE AFTER 1200Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS FOR THE NEXT 24 HOURS THEN DECLINE TO UNSETTLED CONDITIONS. THE FIELD IS APPARENTLY BEING INFLUENCED BY A CORONAL HOLE.

III. EVENT PROBABILITIES 03 MAR-05 MAR

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 MAR 141

PREDICTED 03 MAR-05 MAR 136/133/130

90 DAY MEAN 02 MAR 118

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 MAR 022/030

ESTIMATED AFR/AP 02 MAR 029/038

PREDICTED AFR/AP 03 MAR-05 MAR 018/015-014/010-010/010

SOLTERWARN

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