

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 088

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. FLARE ACTIVITY HAS BEEN LIMITED TO C LEVEL X-RAY FLARES AND MINOR OPTICAL FLARES. REGION 4455 (S14E57) HAS NOW ROTATED COMPLETELY INTO VIEW AND APPEARS TO BE THE RESULT OF A COLLISION INVOLVING TWO ACTIVE REGIONS. THIS SPOT GROUP CURRENTLY HAS A F TYPE SPOT CLASSIFICATION AND A GAMMA MAGNETIC CONFIGURATION. THREE NEW REGIONS WERE NUMBERED THIS PERIOD, 4456 (S11W01), 4457 (N14E46) AND 4458 (N19E72). OF THESE, REGION 4458 HAS BEEN THE MOST PRODUCTIVE WITH A C8/1N FLARE AT 1112 UT AND SEVERAL OTHER SMALL C LEVEL X-RAY EVENTS. THIS REGION IS A C TYPE SPOT GROUP. THE REST OF THE REGIONS ON THE DISK REMAIN STABLE AND QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO MODERATE THROUGHOUT THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO STORM LEVELS, AT ALL LATITUDES, THROUGHOUT THIS PERIOD. THIS ACTIVITY IS DUE TO THE IMPACT OF CORONAL HOLE STREAMS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT ACTIVE TO STORM LEVELS, AT ALL LATITUDES, THROUGHOUT THE FORECAST PERIOD. THIS ACTIVITY IS DUE TO THE CONTINUATION OF THE CORONAL HOLE STREAMS, IMPACTING THE MAGNETIC FIELD TODAY.

III. EVENT PROBABILITIES 29 MAR-31 MAR

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 MAR 136

PREDICTED 29 MAR-31 MAR 140/143/146

90 DAY MEAN 28 MAR 125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 MAR 020/025

ESTIMATED AFR/AP 28 MAR 029/045

PREDICTED AFR/AP 29 MAR-31 MAR 035/035-020/030-015/025

SOLTERWARN

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