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STOP AT 0400

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HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 060

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100 TO 01/2100Z: SOLAR ACTIVITY HAS BEEN LOW. SMALL C CLASS SUBFLARES REPRESENT ALL ACTIVITY FOR THE PERIOD. REGIONS CONTRIBUTING WERE 4094(N12W61), 4095(S11W97), 4098(S15W04), 4100(S09W65), 4102(S14E44), 4104(S19E51). OF THESE REGIONS NONE APPEARS CAPABLE AT THE MOMENT OF MAJOR ACTIVITY. GROWTH HAS BEEN REPORTED IN REGIONS 4098 AND 4102 AND VERY RAPID GROWTH IN 4104. THIS REGION HAS DEVELOPED FROM A SIMPLE C GROUP ON 28 FEB TO A MUCH LARGER AREA WITH MORE SPOTS AND TWO DISTINCT AREAS OF LEADER POLARITY WITH A POSSIBLE DELTA DEVELOPING IN THE SOUTHERNMOST, THE MOST RECENT TO DEVELOP. A FILAMENT ON THE NEUTRAL LINE IN THIS REGION HAS BEEN ACTIVE IN RECENT HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW IN THE EARLY HOURS OF THE FORECAST INTERVAL. MAJOR FLARE ACTIVITY MAY BECOME A POSSIBILITY LATER IN THE PERIOD IF GROWTH IN THE 4102/4104 REGION COMPLEX CONTINUES AT THE PRESENT RATE FOR A FEW MORE HOURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD HAS INCREASED TO UNSETTLED TO NEAR ACTIVE BRIEFLY, DURING THE PERIOD, POSSIBLY DUE TO A FILAMENT DISAPPEARANCE EARLIER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED EARLY WITH ACTIVE CONDITIONS POSSIBLE BEGINNING ON 3 MARCH. A SMALL EQUATORIAL CORONAL HOLE AND A FILAMENT DISAPPEARANCE ON 27 MARCH ARE POSSIBLE FACTORS TO CAUSE SUCH ACTIVITY.

III. EVENT PROBABILITIES 02 MAR-04 MAR

CLASS M 40/60/60

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAR 148

PREDICTED 02 MAR-04 MAR 150/155/160

90 DAY MEAN 01 MAR 156

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 FEB 007/010

ESTIMATED AFR/AP 01 MAR 015/010

PREDICTED AFR/AP 02 MAR-04 MAR 012/010-018/010-015/010

SOLTERWARN

BT