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HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 062

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ONLY SMALL C-CLASS SUBFLARES HAVE BEEN OBSERVED, FROM REGION 4104(S04E25) EARLY IN THE REPORT PERIOD AND FROM 4105(S09E06) SINCE 3/0300Z. REGION 4105 HAS GROWN RAPIDLY IN SPOT COUNT AND IN AREA AND HAS SHOWN STRONG ARCH FILAMENTS DURING THE PERIOD. THE REGION COMPLEX REPRESENTED BY 4102(S15E16), 4104 AND 4105 HAS OTHERWISE STABILIZED AND HAS NOT ACHIEVED THE MAGNETIC COMPLEXITY ANTICIPATED. MAJOR ACTIVITY APPEARS LESS LIKELY PENDING FURTHER DEVELOPMENT IN THESE REGIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. AN ISOLATED M-CLASS FLARE HAS A SMALL PROSPECT CURRENTLY FROM THE REGION COMPLEX DISCUSSED ABOVE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD HAS CONTINUED AT MINOR STORM LEVEL FOR THE REPORT PERIOD. IT HAS SHOWN A DOWNWARD TREND THROUGHOUT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE WITH POSSIBLE BRIEF PERIODS AT MINOR STORM ON 4 MARCH AND TRENDING DOWNWARD PENDING A POSSIBLE RETURN TO MINOR STORM LATE ON 5 MARCH DUE TO THE FILAMENT DISAPPEARANCE OF EARLY ON 2 MARCH.

III. EVENT PROBABILITIES 04 MAR-06 MAR

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAR 143

PREDICTED 04 MAR-06 MAR 141/139/133

90 DAY MEAN 03 MAR 155

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 MAR 048/072

ESTIMATED AFR/AP 03 MAR 032/035

PREDICTED AFR/AP 04 MAR-06 MAR 020/025-015/020-020/020

SOLTERWARN

BT