

FUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 097

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 APR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY REMAINS LOW WITH A C2/SN IN REGION 4137 (S10E02) BEING THE LARGEST EVENT DURING THE PAST 24 HOURS. THE SUNSPOT STRUCTURE IN REGION 4135 (S12E09) HAS NEARLY TOTALLY DECAYED. REMNANTS OF THIS REGION HAVE BEEN INCORPORATED INTO REGION 4137. REGIONS 4137 AND 4138 (S14E46) CONTINUE THEIR GROWTH PATTERNS; HOWEVER, GRADIENTS CURRENTLY REMAIN SMALL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. OLD REGIONS 4115 (S13) AND 4116 (S08) ARE DUE BACK AT EAST LIMB ON 08 APRIL AND 10 APRIL RESPECTIVELY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AT MID LATITUDES WHILE HIGH LATITUDES HAVE EXPERIENCED PERIODS AT STORM LEVEL.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN ACTIVE WITH PERIODS AT STORM LEVEL ON 08-09 APRIL.

III. EVENT PROBABILITIES 08 APR-10 APR

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 APR 102

PREDICTED 08 APR-10 APR 100/097/098

90 DAY MEAN 07 APR 124

V. GEOMAGNETIC A INDICES

OBSERVED - AFR/AP 06 APR - 021/034

ESTIMATED AFR/AP 07 APR 024/035

PREDICTED AFR/AP 08 APR-10 APR 045/045-028/030-024/020

SOLTERWARN

BT