

HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 158

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY WAS MODERATE DUE TO A M1/1B EVENT FROM REGION 4201 (S09W36) AT 2039UT. REGION 4201 HAS SHOWN SLIGHT DECAY IN BOTH WHITE LIGHT AREA AND MAGNETIC COMPLEXITY. REGION 4204 (S09E43) NOW HAS A SMALL DELTA CONFIGURATION AND HAS EXHIBITED MINOR GROWTH. NO NEW REGIONS WERE OBSERVED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE AT MODERATE TO HIGH LEVELS DURING THE FORECAST PERIOD AS REGION 4201 APPEARS CAPABLE OF LARGE FLARE PRODUCTION. REGION 4204, IF GROWTH CONTINUES, MAY START PRODUCING "M" CLASS ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BECOME ACTIVE EARLY ON 08 JUNE AND REACH MINOR STORM, WITH SHORT PERIODS AT MAJOR STORM LEVELS, BY MID DAY ON 08 JUNE. THE STORM CONDITIONS ARE EXPECTED TO LAST UNTIL EARLY ON 10 JUNE WHEN CONDITIONS ARE EXPECTED TO RETURN TO ACTIVE LEVELS. THE STORM IS EXPECTED TO BE FROM THE CORONAL HOLE AND SOME EFFECTS FROM THE X1 EVENT OF 06/1340UT JUNE.

III. EVENT PROBABILITIES 08 JUN-10 JUN

CLASS M 99/99/99

CLASS X 50/40/40

PROTON 25/20/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUN 174

PREDICTED 08 JUN-10 JUN 172/169/160

90 DAY MEAN 07 JUN 126

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 JUN 011/010

ESTIMATED AFR/AP 07 JUN 012/012

PREDICTED AFR/AP 08 JUN-10 JUN 040/035-030/025-030/020

SOLTERWARN

BT