

NFUS 1 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SFF NUMBER 183

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 22 JULY 1978

I. SOLAR ACTIVITY HAS BEEN MODERATE TO LOW WITH THE OCCURRENCE OF NUMEROUS SMALL FLARES AND ONE OUTSTANDING LIMB EVENT. A SMALL REGION THAT ROTATED OVER SOUTHWEST LIMB TODAY IS APPARENTLY DEVELOPING RAPIDLY AS EVIDENCED BY AN IMPORTANCE 2 SPRAY/CLASS M1/ IN FLARE AT 1404Z FROM S18. NEARBY REGION 1172 (S19W85) HAS DIMINISHED IN SPOT AREA BUT RETAINS A COMPACT AND BRIGHT PLAGUE. A LONG-LIVED C3 EVENT OCCURRED AT 2025Z FROM THE LARGE FAINT REGION 1183 (N14W31) WHICH RETAINS AN IMPORTANT AREA OF CONVOLUTION IN ITS LONG NEUTRAL LINE. AN ACTIVE FILAMENT HAS BEEN PRESENT OVER THIS LINE MOST OF THE DAY. SMALL NEW REGIONS HAVE APPEARED AT N27W01 (REGION 1189), N34E33 (REGION 1191) AND S25E03 (REGION 1192). THE SW LIMB SOURCE OF THE M1 EVENT HAS BEEN DESIGNATED REGION 1190. FAINT PLAGUE AND WEAK RADIO EMISSION IS PRESENT OVER BOTH THE NE AND SE LIMBS.

II. SOLAR ACTIVITY IS EXPECTED TO DECLINE SHARPLY WITH THE WEST LIMB PASSAGES OF IMPORTANT REGIONS AT BOTH THE NW AND SW LIMBS. NEW ACTIVITY IS EXPECTED TO DEVELOP ON THE SOLAR DISK AND TO APPEAR AT EAST LIMB WITHIN THE NEXT WEEK.

III. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. NO SIGNIFICANT INCREASE IN ACTIVITY IS EXPECTED DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 03 JULY - 05 JULY

CLASS M 35/20/10

CLASS X 5/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 JULY 123

PREDICTED 03-05 JULY 114/108/106

90-DAY MEAN 22 JULY 148

V. GEOMAGNETIC A. INDICES

OBSERVED FREDERICKSBURG 31 JULY 06

ESTIMATED AFR/AP 02 JULY 07/07

PREDICTED AFR/AP 03-05 JULY 12/12 - 10/10 - 06/06

SOLTERWARN

BT