

HFUS 1 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 188

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 7 JULY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. ENERGETIC ACTIVITY CONTINUES BEHIND AND AT THE NORTHEAST LIMB SPANNING ALMOST 20 DEGREES IN LATITUDE (NE 05-25). A LARGE (.4R) BRIGHT SURGE AT NE 18 WAS ACCOMPANIED BY AN M2 X-RAY BURST AT 0528 UT. ANOTHER LIMB EVENT OCCURRED AT 0828 UT AT NE 10 AND PRODUCED AN M3 X-RAY BURST. SIGNIFICANT SURGING CONTINUES TO THIS TIME. BUT AN IDENTIFIABLE REGION (S) HAS NOT ROTATED INTO VIEW. REGION 1197 (S18E61) PRODUCED AN M1/IB FLARE AT 1206 UT. REGION 1184 (S16W52) HAS SHOWN DRAMATIC GROWTH IN WHITE LIGHT AND PRODUCED A M1 FLARE AT 1728 UT.

IB. SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL WITH AN INCREASING POSSIBILITY OF SIGNIFICANT ACTIVITY SHOULD CURRENT TRENDS CONTINUE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. GEOMAGNETIC CONDITIONS SHOULD REMAIN GENERALLY UNSETTLED.

III. EVENT PROBABILITIES 08-10 JULY

CLASS M 45/50/50

CLASS X 10/10/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JULY 125

PREDICTED 08-10 JULY 132/137/140

90-DAY MEAN 07 JULY 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 JULY 14

ESTIMATED AFR/AP 07 JULY 12/11

PREDICTED AFR/AP 08-10 JULY 10/10 - 12/12 - 14/15

SOLTERWARN

BT