

HFUS 1 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 212

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 JULY 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE ONLY C-CLASS X-RAY EVENT (C2) WAS ASSOCIATED WITH A SURGE ON THE NW LIMB (NW23) APPARENTLY FROM A NEW, UNNUMBERED REGION. SOME SURGING WAS ALSO REPORTED WITH THE WEST LIMB TRANSIT OF 2577 (SW12) AND 2579 (SW23). THE 10 SPOTTED REGIONS ON THE VISIBLE DISK REMAINED MOSTLY STABLE WITH THE EXCEPTION OF RAPID DECAY IN REGION 2588 (S08W12). SURGING AT SE08 AND NE12 MAY SIGNAL THE APPEARANCE OF NEW REGIONS TOMORROW. AN EXTREMELY LARGE NORTHERN FILAMENT DISAPPEARED BETWEEN 0250 UT AND 0605 UT TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. NONE OF THE REGIONS NOW VISIBLE APPEAR TO BE CAPABLE OF SIGNIFICANT FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN LOW-UNSETTLED TO QUIET FOR THE PAST 24 HOURS. RECURRENCE SUGGESTS THAT CONDITIONS WILL BE UNSETTLED TOMORROW (ALTHOUGH HELIUM 10830 NO LONGER SHOWS A CORONAL HOLE WHICH WAS PRESENT ON THE PREVIOUS 3 ROTATIONS). ACTIVITY SHOULD THEN RETURN TO PREDOMINANTLY QUIET LEVELS FOR THE FORECAST PERIOD, BUT MAY INCREASE AGAIN LATE ON 03 AUGUST IN RESPONSE TO A POSSIBLE CORONAL TRANSIENT ASSOCIATED WITH THE FILAMENT DISAPPEARANCE.

III. EVENT PROBABILITIES 31 JULY TO 02 AUGUST

CLASS M 01/01/01

CLASS X 01/01/01

FROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 JULY 139

PREDICTED 31 JULY - 02 AUGUST 135/134/137

90-DAY MEAN 30 JULY 203

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 29 JULY 06

ESTIMATED AFR/AP 30 JULY 06/08

PREDICTED AFR/AP 31 JULY - 02 AUGUST 10/10 - 07/10 - 07/12

SOLTERWARN

BT