

HEUS 1.BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 008

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 8 JANUARY 1979

I A. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. AN M3/1B FLARE WAS PRODUCED BY THE REGION 1496 (N 16E 39)/REGION 1502 (N 16E 49) COMPLEX. THIS FLARE REACHED MAXIMUM AT 0234 U.T. AND WAS ACCCOMPANIED BY A MODERATE TYPE II EVENT AND A 970 FLUX UNIT BURST AT 10 CM. THESE TWO REGIONS ALONG WITH REGION 1533 (N 20E 56) FORM A MAGNETICALLY COMPLEX AREA. REGION 1494 (N 10W 07) HAS SHOWN GROWTH IN ALMOST ALL OBSERVED PARAMETERS AND HAS PRODUCED SEVERAL MODERATE CLASS C FLARES. THE CENTRAL PORTION OF THIS REGION IS VERY COMPLEX MAGNETICALLY. ONE APPARENTLY SIMPLE REGION HAS ROTATED OVER THE EAST LIMB AND HAS BEEN NUMBERED 1574 (S 29E 80).

B. SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL. SIGNIFICANT EVENTS ARE POSSIBLE FROM REGION 1494 AND THE COMPLEX OF REGIONS IN THE NORTHEAST QUADRANT. NO REGIONS OF NOTE ARE DUE TO RETURN DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS QUIETED TO AN UNSETTLED LEVEL. THE FIELD SHOULD REMAIN GENERALLY UNSETTLED WITH A TREND TO ACTIVE CONDITIONS TOWARD THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 8 JANUARY - 11 JANUARY

CLASS M 70/70/60

CLASS X 15/15/10

PROTON 25/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JANUARY 207

PREDICTED 09 - 11 JANUARY 205/200/195

90-DAY MEAN 08 JANUARY 169

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 07 JANUARY 18

ESTIMATED AFR/AP 08 JANUARY 06/07

PREDICTED AFR/AP 09 - 11 JANUARY 08/10 - 10/15 - 14/18

SOLTERWARN

BT