

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

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
AN M3/1B FLARE WAS PRODUCED BY THE REGION 1496 (N16E39)/REGION
1502 (N16E49) COMPLEX. THIS FLARE REACHED MAXIMUM AT 0234 U. T.
AND WAS ACCOMPANIED BY A MODERATE TYPE II EVENT AND A 970 FLUX
UNIT BURST AT 10 CM. THESE TWO REGIONS ALONG WITH REGION 1503
(N20E56) FORM A MAGNETICALLY COMPLEX AREA. REGION 1494 (N10W07)
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 1504 (S29E80).

IB. 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 09 JANUARY - 11 JANUARY

CLASS M 70/70/60

CLASS X 15/15/10

PROTON 05/05/05

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 A INDICES

OBSERVED FRÉDERICKSBURG 07 JANUARY 18

ESTIMATED AFR/AP 08 JANUARY 06/07

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

SOLTERWARN

BT