

HFUS 1 BDU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 205

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 JULY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
SEVERAL C-CLASS AND TWO M-CLASS X-RAY FLARES WERE RECORDED. THE
C-CLASS X-RAY FLARES WERE FROM REGION 1877 (N31W40), WERE AS
FOLLOWS: C6/SN AT 0109 UT, A C7/SN AT 2156 UT AND A C6/SN AT 1516 UT.
AT 0513 UT A M1 X-RAY FLARE OCCURRED, HOWEVER NO OPTICAL CORRELATION
WAS REPORTED, AT 0811 UT A M2 X-RAY FLARE APPARENTLY FROM REGION
1880 (NE16). A SB FLARE WAS REPORTED FROM REGION 1877 AT 0801 UT
WHICH MAY HAVE CONTRIBUTED TO THE M2 AT 0811 UT. A SPRAY FROM NEW
REGION 1890 (N14E72) WAS OBSERVED AT 1403 UT OUT TO .11 RADII.
ALSO AT 1403 UT AN ERUPTIVE PROMINENCE ON THE LIMB WAS OBSERVED
FROM SE55 0 UT TO .8 RADII. REGION 1887 (S13E15) HAS
STRONG ARCH FILAMENT IN PROGRESS AND HAS SHOWN RAPID GROWTH
DURING THE PAST 12 HOURS.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE NEXT
24 HOURS. REGIONS 1887, 1877 AND 1890 HAVE THE BEST CHANCE TO
PRODUCE M-CLASS X-RAY EVENTS. ACTIVITY SHOULD INCREASE AS ACTIVE
LONGITUDES ARE EXPECTED TO RETURN.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS.
THE FIELD IS EXPECTED TO BE QUIET DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 JULY - 27 JULY

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JULY 164

PREDICTED 25-27 JULY 168/173/181

90-DAY MEAN 24 JULY 173

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 JULY 06

ESTIMATED AFR/AP 24 JULY 08/09

PREDICTED AFR/AP 25-27 JULY 07/08 - 07/08 - 07/08

SOLTERWARN

BT