

HFUS 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 236

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 AUGUST 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS.

REGION 2629 (N19W40) PRODUCED A C6/1B FLARE, MAXIMUM AT
0803 UT 23 AUG. AN UNASSOCIATED C8 EVENT MAXIMUM OCCURRED AT 0806
UT 23 AUG. NUMEROUS OTHER C CLASS X RAY SUBFLARES OCCURRED THROUGH-
OUT THE DAY FROM REGIONS 2626 (S08W83), 2632 (N14W02), 2635 (N09E34),
2625 (N17W71). NEW REGIONS 2639 (N20E08), 2640 (S08E12), AND 2641
(S14E18) WERE NUMBERED. REGION 2629 HAS A FLARE IN PROGRESS
AT REPORT TIME, AND M2/1B IMPULSE WITH A MAXIMUM REACHED IN 3 MINUTES
AT 2129 UT. THE M2/1B FLARE WHICH OCCURRED ON 22 AUG. IN 2635 AT
REPORT TIME REACHED MAX AT 2130 UT AND WAS ACCOMPANIED BY LOW LEVELS
OF RADIO EMISSION.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO NEAR MODERATE FOR
THE NEXT 24 HOURS. THE GREATEST PROBABILITY FOR A LARGE FLARE REMAINS
WITH REGION 2629. SMALL FLARES ARE STILL LIKELY FROM ANY OF THE
REGIONS MENTIONED ABOVE.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED. FLARE ACTIVITY FROM 21 AUG
MAY BRING THE LEVEL TO NEAR ACTIVE BRIEFLY ON 24 AUG. AFTER WHICH
ACTIVITY SHOULD DIMINISH TO NEAR QUIET LEVELS.

III. EVENT PROBABILITIES 24 AUG - 26 AUG

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 05/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 AUG 170

PREDICTED 24 AUG - 26 AUG 164/157/150

90-DAY MEAN 23 AUG 189

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 AUG 11

ESTIMATED AFR/AP 23 AUG 08/10

PREDICTED AFR/AP 24 AUG - 26 AUG 14/18 12/14 10/12

SOLTERWARN

BT