

HFUS 1 B OU 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

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

REGION 2629 (N 19W 40) PRODUCED A C6/1B FLARE, MAXIMUM AT ~003 UT 23 AUG. AN UNASSOCIATED C8 EVENT MAXIMUM OCCURRED AT 0806 UT 23 AUG. NUMBEROUS OTHER C CLASS X RAY SUBFLARES OCCURRED THROUGHOUT THE DAY FROM REGIONS 2626 (S 08W 83), 2632 (N 14W 02), 2635 (N 09E 34), 2625 (N 17W 71). NEW REGIONS 2639 (N 20E 08), 2640 (S 08E 12), AND 2641 (S 14E 18) 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 ACCCOMPANIED BY LOW LEVELS OF RADIO EMISSION.

II. 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.

III. THE GEOMAGNETIC FIELD WAS UNSETLED. 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.

IV. EVENT PROBABILITIES 24 AUG - 26 AUG

CLASS M 5/05 0/5 0

CLASS X 05/05 0/5

PROMPT 05/02/02

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 23 AUG 170

PREDICTED 24 AUG - 26 AUG 164/157/150

90-DAY MEAN 23 AUG 189

VI. GEOMAGNETIC 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

SOLARWARN

BT