

MFUS 1 BOU-292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SD F NUMBER 241

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 AUGUST 1979

I A. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. CLASS C X-RAY BURSTS WITH SMALL TYPE THREE SWEEP FREQUENCY BURSTS ARE THE MOST ENERGETIC EVENTS OBSERVED THIS ZULU DAY. REGION 1943 (N 05W50) HAS NOT CHANGED MUCH IN COMPLEXITY SINCE YESTERDAY, ALTHOUGH THE GENERAL IMPRESSION IS ONE OF SLOW DECAY. REGION 1958 (N 18E43) HAS PRODUCED AT LEAST ONE SUBFLARE BUT IT TOO APPEARS TO BE DECAYING. SMALL SURGE ACTIVITY WAS OBSERVED IN THE NORTHEAST EARLIER TODAY WHERE REGIONS 1904 AND 1907 ARE DUE TO RETURN. TWO REGIONS, 1939 (S 13W82) AND 1953 (S 12W47), NO LONGER HAVE SPOTS.

I B. THE COMPLEXITY OF 1943 AND 1958 WOULD SUGGEST THE LIKELIHOOD OF M-CLASS ACTIVITY; THEREFORE, LOW TO MODERATE LEVELS ARE EXPECTED.

II. THE GEOMAGNETIC FIELD EXPERIENCED A SUDDEN COMMENCEMENT NEAR 0500 UT ON 29 AUGUST. THE FIELD HAS BEEN AT MINOR STORM LEVELS THROUGHOUT THE DAY AND IS EXPECTED TO CONTINUE THROUGH THE NIGHT. DAYLIGHT HOURS ON 30 AUGUST SHOULD BE BASICALLY UNSETTLED.

III. EVENT PROBABILITIES 30 AUGUST - 01 SEPTEMBER

CLASS M 70/60/60

CLASS X 30/25/20

PREDICTED 20/15/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 AUGUST 194

PREDICTED 30 AUGUST - 01 SEPTEMBER 190/187/185

90-DAY MEAN 29 AUGUST 174

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 28 AUGUST 13

PREDICTED AFR/AP 29 AUGUST 40/55

PREDICTED AFR/AP 30 AUGUST - 01 SEPTEMBER 20/35 - 13/20 - 10/15

SOLTERWARN

BT