

HFUS 1 B OU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 235

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 AUGUST 1979

IA. AGAIN, FLARE PRODUCTION HAS BEEN LOW CONSIDERING THE NUMBER OF ACTIVE REGIONS ON THE VISIBLE DISK. ONE ENERGETIC FLARE, A M2/1B AT 1244Z FROM REGION 1943 (N05E29), HAS OCCURRED DURING THE LAST 24 HOURS. CENTIMETRIC BURSTS AND MODERATE TO STRONG SHORT WAVE FADE ACCOMPANIED THIS LONG-LIVED (2HR) FLARE. REGION 1943 CONTAINS SEVERAL DELTA CONFIGURATIONS AND HAS INCREASED THE STRENGTHS OF THE MAGNETIC GRADIENTS. BOTH REGIONS 1939 (S13W01) AND 1942 (S32E27) SHOW SOME DEGREE OF MAGNETIC COMPLEXITY. REGION 1929 (S26W50) HAS SHOWN A DECREASE IN MAGNETIC ANOMALIES ON THE MAGNETOGRAMS AND IS NOW BASICALLY AN EXTENDED BIPOLAR REVERSED POLARITY GROUP.

IB. REGION 1943 IS EXPECTED TO CONTINUE PRODUCING INTERMITTENT ENERGETIC FLARES. REGIONS 1939 AND 1942 SHOULD ADD TO THE FLARE PRODUCTIONS BUT MAINLY CONFINED TO CLASS C X-RAY BURSTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THIS ZULU DAY. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED THROUGH THE 25TH WITH ACTIVE TO MINOR STORM CONDITIONS ON THE 26TH AS THE EARTH COMES WITHIN THE INFLUENCE OF AN EQUATORIAL CORONAL HOLE.

III. EVENT PROBABILITIES 24 - 26 AUG

CLASS M 90/90/90

CLASS X 40/50/50

PROTON 25/30/40

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 AUG 214

PREDICTED 24 - 26 AUG 215/212/210

90-DAY MEAN 23 AUG 171

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 AUG 15

ESTIMATED AFR/AP 23 AUG 04/10

PREDICTED AFR/AP 24 - 26 AUG 10/13 13/15 30/35

SOLTERWARN

BT