

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO  
SDF NUMBER 238

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 26 AUGUST 1979

IA. SOLAR ACTIVITY HAS BEEN HIGH DURING THE PAST 24 HOURS. REGION 1943 (N 25W 11) PRODUCED A SERIES OF ABOUT A DOZEN C-CLASS SUBFLARES BEFORE PRODUCING A MAJOR FLARE WITH A MAXIMUM AT 26/1700Z.

THIS WAS AN X2 EVENT IN X-RAYS (A 2B OPTICALLY WITH PARALLEL FLARE RIBBONS). THE FLARE WAS ACCCOMPANIED BY STRONG SWF'S AT H.F. FREQUENCIES. THE 10 CENTIMETER RADIO BURST REACHED 640 F.V.

IB. REGION 1943 CAN BE EXPECTED TO RELAX FOR A DAY OR TWO BUT WILL PROBABLY PRODUCE STILL MORE MAJOR FLARES DURING ITS DISK TRANSIT.

REGION 1942 (S30W 11) HAS GROWN MORE COMPLEX AND MAY NOW BEGIN ENERGETIC FLARE PRODUCTION. REGION 1951 (N 18W 00) LOOKS CAPABLE OF PRODUCING OCCASIONAL M-CLASS FLARES. A NEW REGION, REGION 1956 (N 17E 75), IS NOT COMPLETELY ON THE DISK YET AND ALREADY LOOKS LIKE A FLARE PRODUCER.

II. THE GEOMAGNETIC FIELD HAS BEEN MILDLY ACTIVE TO UNSETLED DURING THE PAST 24 HOURS. A MAJOR MAGNETIC STORM IS EXPECTED TO BEGIN ABOUT 27/1300Z AS A RESULT OF TODAY'S MAJOR FLARE NEAR CENTRAL MERIDIAN. THE FLARE CHARACTERISTICS ALSO INDICATE GREATER THAN 10 MEV PROTONS SHOULD BEGIN ARRIVING AT THE EARTH ANY TIME NOW. A MAJOR PROTON EVENT IS NOT ANTICIPATED BUT EVENT THRESHOLDS (10 PARTICLES/CM<sup>2</sup>/SEC/SIERRADIAN) ARE LIKELY TO BE EXCEEDED.

III. EVENT PROBABILITIES

CLASS M 70/75/80

CLASS X 30/35/40

PROTON 40/40/40

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 AUGUST 223

PREDICTED 27 - 29 AUGUST 218/218/216

90-DAY MEAN 26 AUGUST 173

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 25 AUGUST 16

ESTIMATED AFR/AP 26 AUGUST 14/19

PREDICTED AFR/AP 27 - 29 AUGUST 50/55 30/55 16/30

SOLIERWARN

BT