

HFUS 1 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 239

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 AUGUST 1978

IA. SOLAR ACTIVITY WAS GENERALLY LOW DURING THE PAST 24 HOURS
WITH FLARE ACTIVITY BEING LIMITED TO C-CLASS LEVELS. THE LARGEST
X-RAY BURST DETECTED WAS A C8/SB (MAXED NEAR 27/1628Z) FROM
REGION 1266 (N19E54). THIS D-TYPE REGION SHOWED CONSIDERABLE
GROWTH DURING THE PAST 24 HOURS AND PRODUCED MOST OF THE OBSERVED
FLARE ACTIVITY. A NEW REGION, 1268, DEVELOPED RAPIDLY NEAR S20W43
AND IS A D-TYPE GROUP. REGION 1265 (N11E16) HAS DISPLAYED PLAGE
FLUCTUATIONS TO NEAR FLARE INTENSITY AND HAS AN AFS. OTHER DISK
REGIONS WERE GENERALLY STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO OCCASIONALLY MODERATE
DURING THE NEXT 24 HOURS. REGIONS 1265, 1266, AND 1268 SHOULD
CONTINUE DEVELOPING, AND REGION 1266 SHOULD BECOME CAPABLE OF
PRODUCING OCCASIONAL M-CLASS X-RAY EVENTS.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PAST
24 HOURS. A SUDDEN COMMENCEMENT OCCURRED NEAR 27/0247Z AND MINOR
STORM CONDITIONS EXISTED BETWEEN 27/1000Z AND 27/1500Z. THE SC MAY
HAVE RESULTED FROM A FILAMENT (NEAR N17E18 AT 22/1453Z) WHICH
DISAPPEARED BETWEEN 22 AND 23 AUGUST. THE GEOMAGNETIC FIELD SHOULD
BE UNSETTLED TO OCCASIONALLY ACTIVE ON 28-29 AUGUST, BECOMING
GENERALLY ACTIVE ON 30 AUGUST.

III. EVENT PROBABILITIES 28 AUGUST - 30 AUGUST

CLASS M 30/40/50

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 AUGUST 109

PREDICTED 28-30 AUGUST 115/120/125

90-DAY MEAN 27 AUGUST 130

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 AUGUST 02

ESTIMATED AFR/AP 27 AUGUST 21/18

PREDICTED AFR/AP 28-30 AUGUST 10/15 - 10/12 - 20/20

SOLTERWARN