

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 177

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 26 JUNE 1978

* IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. THE EARLY PART OF THIS PERIOD WAS MARKED BY OCCASIONAL C-CLASS X-RAY BURST FROM REGIONS 1171 (N25W13), 1172 (S20W02) AND 1176 (N22E09). THE HIGHLIGHT OF THE PERIOD OCCURRED AT 261530 U.T. WHEN AN M-3 X-RAY BURST WAS OBSERVED IN CONJUNCTION WITH A 2B FLARE IN REGION 1170. THIS EVENT HAD A 1024 FLUX UNIT BURST AT 10.7 CM AS MEASURED BY OTTAWA AND A TYPE IV SWEEP FREQUENCY BURST. REGION 1170 HAS BEEN BASICALLY QUIET SINCE THAT TIME. NO MAJOR STRUCTURAL CHANGES HAVE OCCURRED IN ANY OF THE VISIBLE FEATURES BUT THE X-RAY BACKGROUND FLUX REMAINS NEAR C-LEVEL AND PLAGE FLUCTUATIONS AS WELL AS POINT BRIGHTENINGS ARE FREQUENT. A NEW REGION 1182 (N14E73) ROTATED OVER THE EAST LIMB BUT IS SMALL AND SIMPLE SO FAR.

IB. SOLAR ACTIVITY SHOULD BE AT MODERATE LEVEL DURING THE NEXT 24 HOURS.*

II. THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS DURING THE PAST 24 HOURS. GENERALLY ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT 24 TO 48 HOURS WITH STORM INDUCED ACTIVITY EXPECTED LATE ON 28 JUNE.

III. EVENT PROBABILITIES 27 JUNE - 29 JUNE

CLASS M 85/85/85

CLASS X 30/30/30

PROTON 80/50/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 JUNE 193

PREDICTED 27-29 JUNE 187/181/175

90-DAY MEAN 26 JUNE 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 JUNE 22

ESTIMATED AFR/AP 26 JUNE 30/50

PREDICTED AFR/AP 27-29 JUNE 24/24 - 16/16 - 30/30

SOLTERWARN

BT

* LTR