

HFUS /1 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 156

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 04 JUNE 1980

IA. SOLAR ACTIVITY DURING THE PAST 24 HOURS HAS CONSISTED OF SEVERAL CLASS "C" X-RAY BURST AND TWO CLASS "M" X-RAY BURST. ALTHOUGH REGION 2478 (S1W71) HAS FLARED, MOST OF THE ENERGETIC ACTIVITY HAS COME FROM REGION 2490 (S14E49), INCLUDING BOTH "M" EVENTS. THE PLAGE WITH 2490 IS CONCENTRATED PRIMARILY OVER THE LARGE UMBRAL AREAS OF THE LEADER AND TRAILER SPOTS WITH A BRIGHT SEGMENT APPARENTLY LAYING OVER THE DELTA CONFIGURATION IN THE EASTERN PORTIONS OF THE LEADER. THE MAGNETIC GRADIENTS OUTSIDE OF THE DELTA CONFIGURATION APPEAR RELATIVELY WEAK AND THE OVERALL PLAGE BRIGHTNESS IS NOT IMPRESSIVE. BY CONTRAST, REGION 2478 IS QUITE BRIGHT AND THE PLAGE IS PRIMARILY BETWEEN AND TO THE SOUTH OF THE LEADER-TRAILER. GRADIENTS WITHIN THIS REGION APPEAR STRONG IN SEVERAL LOCATIONS. ALSO, GROWTH IN THE LEADER SINCE YESTERDAY HAS BEEN SIGNIFICANT. NONE OF THE OTHER DISK FEATURES HAVE CHANGED MUCH.

IB. SOLAR ACTIVITY SHOULD CONTINUE GENERALLY MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. NO MAJOR CHANGES EXPECTED.

III. EVENT PROBABILITIES 05 JUNE - 07 JUNE

CLASS M 75/70/65

CLASS X 25/25/20

PROTON 25/20/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JUNE 177

PREDICTED 05-07 JUNE 181/182/182

90-DAY MEAN 04 JUNE 202

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 03 JUNE 12

ESTIMATED AFR/AP 04 JUNE 09/08

PREDICTED AFR/AP 05-07 JUNE 10/10 - 09/10 - 07/10

SOLTERWARN

BT