

HFUS 1 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 154

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 JUNE 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. THREE M-CLASS X-RAY EVENTS OCCURRED ON THE EAST AND WEST LIMBS. TWO CAME FROM REGION 2490 (S13E78), AN M2 MAXING AT 0736 UT AND AN M2/SB MAXING AT 2150 UT. REGION 2470 (S18W97) HAD AN M1 MAXING AT 0923 UT. REGION 2490 HAS NOT ROTATED FAR ENOUGH ONTO THE DISK TO ALLOW GOOD ANALYSIS, BUT IT IS EXPECTED TO BE A FOCUS OF ATTENTION. ALTHOUGH REGION 2478 (S11W41) PRODUCED ONLY C-CLASS SUBFLARE ACTIVITY TODAY, IT HAS GROWN AND EVOLVED INTO A CONFIGURATION OFTEN ASSOCIATED WITH MAJOR PROTON FLARES. IT IS EXTREMELY COMPLEX MAGNETICALLY AND THE MAJOR SPOT HAS BEEN OBSERVED TO ROTATE. TWO NEW B-TYPE REGIONS EMERGED ON THE DISK TODAY. THEY ARE 2491 (N17W14) AND 2492 (N20E37).

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH IN RESPONSE TO THE OBSERVED FLARE POTENTIAL IN 2478 AND THE M-CLASS PROPENSITY OF 2490.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET FOR THE PAST 24 HOURS. THE MINOR STORM CONDITIONS EXPERIENCED ON 01 JUNE HAVE COMPLETELY SUBSIDED. THE FIELD IS EXPECTED TO REMAIN MOSTLY QUIET WITH OCCASIONAL UNSETTLED PERIODS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 03 JUNE - 05 JUNE

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 20/20/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JUNE 179

PREDICTED 03-05 JUNE 175/173/174

90-DAY MEAN 02 JUNE 202

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 JUNE 17

ESTIMATED AFR/AP 02 JUNE 07/10

PREDICTED AFR/AP 03-05 JUNE 08/10 - 06/08 - 10/10

SOLTERWARN

BT