

HFUS 180U 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 159

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 07 JUNE 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
ALL SIGNIFICANT EVENTS ORIGINATED FROM REGION 2495 (N13W83).
THIS REGION PRODUCED SEVERAL FLARES, THE LARGEST BEING AN M7/SB
MAX AT 0314UT. THIS EVENT WAS ACCOMPANIED BY SIGNIFICANT RADIO
BURSTS (130 F.U. AT 2655 MHZ) AND TYPE II/IV RADIO SWEEPS. FLARE
TYPE LOOPS WERE OBSERVED FROM REGION 2495 FROM 1300-1700 UT.
REGION 2490 (S13E09) HAS BEEN QUIET DURING THE PAST 24 HOURS
BUT REMAINS MAGNETICALLY COMPLEX (BETA-GAMMA-DELTA) WITH A ISO-
LATED POLE. THIS REGION APPEARS TO BE RESTRUCTURING MAGNETICALLY
AS IT CONTINUES GROWING.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH REGION 2495
AND REGION 2490 HAVING THE GREATEST FLARE POTENTIAL. REGION 2495
WILL COMPLETE WEST LIMB TRANSIT DURING THE NEXT 24 HOURS AND
THERE AFTER THIS REGION WILL BE OF LITTLE SIGNIFICANCE. REGION
2490 APPEARS TO BE STORING ENERGY AND COULD PRODUCE SIGNIFICANT
ACTIVITY DURING THE NEXT 24 HOURS. REGION 2487 (S12W46) AND
REGION 2496 (N18E17) ARE THE ONLY OTHER AREAS WITH LIMITED FLARE
POTENTIAL.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING
THE PAST 24 HOURS AND IS FORECAST TO BE AT ACTIVE LEVELS DURING
THE FIRST 2 DAYS OF THE FORECAST PERIOD AND UNSETTLED ON THE
THIRD DAY.

III. EVENT PROBABILITIES 08-10 JUNE

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUNE 165

PREDICTED 08-10 JUNE 163/165/170

90-DAY MEAN 07 JUNE 202

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 JUNE 16

ESTIMATED AFR/AP 07 JUNE 17/19

PREDICTED AFR/AP 08-10 JUNE 16/18 20/25 12/15

SOLTERWARN

BT