

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 171

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 JUNE 1978

IA. SOLAR ACTIVITY HAS INCREASED WITH THE EAST LIMB PASSAGE OF A
LARGE ACTIVE REGION (1172) AT S22E77 WHICH PRODUCED A CLASS M1
EVENT AT 1916Z. THE SPOT GROUP IS A LARGE TYPE E. REGION 1170
(N16E60) IS ALSO A CLASS E SPOT GROUP, HAS A MAGNETIC DELTA
CONFIGURATION, AND IS SURROUNDED BY THREE SMALLER BUT SIGNIFICANT
REGIONS. IMPORTANT GROWTH HAS OCCURRED IN REGION 1155 (N18W38)
AND REGION 1161 (S25E07). A NEW REGION (1173) AT S17E42 HAS AN
ABNORMAL MAGNETIC PATTERN. RADIO FLUX CONTINUES TO RISE SHARPLY
AND IS PARTICULARLY STRONG OVER THE EAST LIMB.

IB. CLASS M FLARES ARE EXPECTED AT A RATE OF ONE PER 36 HOURS.
CLASS X EVENTS MAY BE POSSIBLE, BUT FURTHER ANALYSIS IS NEEDED
BEFORE RAISING THEIR FORECAST.

II. THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET WITH UNSETTLED
CONDITIONS EARLY IN THE DAY. QUIET CONDITIONS ARE EXPECTED FOR
ANOTHER DAY BEFORE COMMENCEMENT OF MINOR ACTIVITY FROM A NEW
HIGH-SPEED SOLAR WIND STREAM.

III. EVENT PROBABILITIES 21 JUNE - 23 JUNE

CLASS M 50/70/90

CLASS X 05/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JUNE 169

PREDICTED 21-23 JUNE 175/180/182

90-DAY MEAN 20 JUNE 142

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 JUNE 20

ESTIMATED AFR/AP 20 JUNE 11/13

PREDICTED AFR/AP 21-23 JUNE 08/12 - 15/20 - 24/25

SOLTERWARN

BT