

HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 177

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100 TO 26/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN M5 AT 260440Z (MAX) AND AN M7 AT 261415Z (MAX) WERE PRODUCED BY 4227 (S09E65). THE M5 WAS ACCOMPANIED BY A 10CM BURST OF 380 FLUX UNITS WHILE THE M7 PRODUCED A 420 FLUX UNIT BURST AT 10CM. AN IMPORTANCE 1 TYPE II BURST AT SWEEP FREQUENCIES AND A 37000 FLUX UNIT BURST AT 245 MHZ. REGION 4227 MAY NOT BE FULLY ON THE DISK AS ERUPTIVES ARE STILL BEING NOTED ON THE LIMB. LIMB PROXIMITY MAKES ACCURATE ANALYSIS OF THIS REGION DIFFICULT BUT IT APPEARS TO BE A MIXTURE OF POLARITIES EXTENDING TO THE LIMB. WEATHER HAS HAMPERED OBSERVATIONS AT SEVERAL OBSERVATORIES BUT INDICATIONS ARE THAT NO SIGNIFICANT CHANGES HAVE OCCURRED IN ANY OF THE OTHER DISK FEATURES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE AT MODERATE LEVELS FOR THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AT MID LATITUDES AND UNSETTLED TO ACTIVE AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE AT MID LATITUDES AND ACTIVE NIGHTTIME CONDITIONS ARE EXPECTED AT HIGH LATITUDES.

III. EVENT PROBABILITIES 27 JUN-29 JUN

CLASS M 95/95/95

CLASS X 50/50/50

PROTON 05/10/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 JUN 142

PREDICTED 27 JUN-29 JUN 146/148/150

90 DAY MEAN 26 JUN 131

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 JUN 006/008

ESTIMATED AFR/AP 26 JUN 014/015

PREDICTED AFR/AP 27 JUN-29 JUN 012/015-010/015-010/010

SOLTERWARN

BT