

HFUS 3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDE NUMBER 176

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN M1 FLARE AT 251134Z (MAX) FROM UNKNOWN SOURCES WAS FOLLOWED ABOUT SEVEN HOURS LATER BY AN M1 AT 251859Z (MAX). THIS SECOND EVENT WAS FROM REGION 4227 (S10E72), WHICH IS THE RETURN OF OLD 4201. A SURGE ON THE LIMB CORRELATED WITH THIS FLARE WHICH PROBABLY INDICATES A PORTION OF 4227 IS STILL BEHIND THE LIMB. THE OTHER DISK REGIONS HAVE BEEN IN A DECAY PHASE AND WILL NOW MOST LIKELY BE OVER SHADOWED BY 4227.

IB. SOLAR ACTIVITY FORECAST: THE LEVEL OF SOLAR ACTIVITY SHOULD INCREASE SLIGHTLY WITH AN M EVENT PER DAY LIKELY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: QUIET TO UNSETLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 26 JUN-28 JUN

CLASS M 50/50/50

CLASS X 01/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JUN 137

PREDICTED 26 JUN-28 JUN 137/136/135

90 DAY MEAN 25 JUN 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 JUN 008/010

ESTIMATED AFR/AP 25 JUN 006/010

PREDICTED AFR/AP 26 JUN-28 JUN 010/015-010/015-010/015

SOLTERWARN

BT