

FUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 188

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY SUB CLASS C ENHANCEMENTS BEING OBSERVED. ONLY MINOR CHANGES HAVE OCCURRED IN CURRENT DISK REGIONS. REGION 4235 (S19W03) RETAINS ITS BETA GAMMA MAGNETIC CLASSIFICATION BUT POLARITIES ARE ONLY SLIGHTLY MIXED AT THIS TIME. SMALL SPOTS ARE EMERGING IN SEVERAL LOCATIONS IN THE LARGE, DIFUSE PLAGE AREA IN THE SOUTH CENTRAL PORTION OF THE DISK MAKING REGION ASSIGNMENT DIFFICULT. A SMALL CLASS A GROUP EMERGED TODAY AND WAS NUMBERED 4238 (S14W06).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW FOR THE FORECAST PERIOD. THE POSSIBILITY OF AN ISOLATED CLASS M FLARE EXISTS BUT ITS PROBABILITY IS LOW. SEVERAL ACTIVE REGIONS ARE DUE TO RETURN TO THE EAST LIMB DURING THE NEXT THREE DAYS BUT THEY ARE NOT EXPECTED TO INCREASE FLARE FREQUENCIES SIGNIFICANTLY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD WAS AT UNSETTLED TO ACTIVE LEVELS DURING THE PERIOD. SOME HIGH LATITUDE STATIONS HAVE EXPERIENCED GENERALLY ACTIVE CONDITIONS SINCE 07/1200Z. THIS MINOR DISTURBANCE IS ATTRIBUTED TO A WEAK, CORONAL HOLE RELATED, HIGH SPEED SOLAR WIND STREAM.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD CONTINUE AT UNSETTLED TO SLIGHTLY ACTIVE LEVELS FOR THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 08 JUL-10 JUL

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUL 128

PREDICTED 08 JUL-10 JUL 128/128/128

90 DAY MEAN 07 JUL 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 JUL 012/016

ESTIMATED AFR/AP 07 JUL 012/015

PREDICTED AFR/AP 08 JUL-10 JUL 010/015-010/015-012/015

SOLTERWARN

BT