

FUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 187

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100 TO 06/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST FLARE THIS PERIOD WAS A C2/SN FROM REGION 4235(S21E09) . THIS HAD AN XRAY MAXIMUM TIME OF 06 0104Z. AN ARCHED FILAMENT SYSTEM WAS SEEN IN REGION 4236 (S12E25) THIS PERIOD. CLOUDS HAMPERED THE PATROL OF MOST OBSERVATORIES TODAY SO OTHER SIGNIFICANT FEATURES MAY HAVE BEEN MISSED. SURGING WAS NOTED ON THE EAST LIMB AT S 20 LATE ON THE 5TH AND EARLY ON THE 6TH. A NEW REGION THEN ROTATED INTO VIEW AND WAS NUMBERED. THIS IS REGION 4237 (S15E72) WHICH IS AN HHX TYPE REGION WITH AN AREA OF 150 MILLIONTHS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD BEGAN THE PERIOD AT QUIET LEVELS, BUT INCREASED TO ACTIVE LEVELS BY 1200 Z IN RESPONSE TO A CORONAL HOLE THAT IS NOW LOCATED AT 70 WEST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT ACTIVE LEVELS (WITH OCCASIONAL MINOR STORM LEVELS) THROUGH MOST OF THE 7TH. UNSETTLED TO ACTIVE CONDITIONS ARE THEN EXPECTED ON THE 8TH AND 9TH.

III. EVENT PROBABILITIES 07 JUL-09 JUL

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JUL 128

PREDICTED 07 JUL-09 JUL 130/132/130

90 DAY MEAN 06 JUL 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 JUL 005/008

ESTIMATED AFR/AP 06 JUL 013/015

PREDICTED AFR/AP 07 JUL-09 JUL 018/030-010/015-010/015

SOLTERWARN

BT