

FUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 182

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100 TO 01/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS PERIOD.

REGION 4227 (S08E01) PRODUCED A M1/1B FLARE WHICH REACHED MAXIMUM AT 1335 UT. THIS REGION CONTINUES TO BE THE MOST DYNAMIC ONE (IT STILL CONTAINS THE MAGNETIC DELTA CONFIGURATION) ON THE DISK ALTHOUGH IT IS DECAYING SLIGHTLY IN AREA. REGION 4230 (S18E18) ALSO SHOWS SLIGHT DECAY IN TOTAL AREA AND APPEARS RELATIVELY STABLE. NEW REGIONS NUMBERED THIS PERIOD ARE 4233 (S04W08), 4234 (S08E76) AND 4235 (S21E75). THESE REGIONS ARE A, A AND H TYPE REGIONS RESPECTIVELY. ALL OTHER REGIONS ON THE DISK ARE UNIMPRESSIVE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY LOW WITH ISOLATED M-CLASS EVENTS POSSIBLE FROM REGION 4227.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME ACTIVE ON THE 2ND OF JULY DUE TO CORONAL INFLUENCED ACTIVITY. IT SHOULD THEN TAPER OFF TO UNSETTLED CONDITIONS FOR THE FINAL TWO DAYS OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 02 JUL-04 JUL

CLASS M 40/40/30

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 JUL 117

PREDICTED 02 JUL-04 JUL 118/115/115

90 DAY MEAN 01 JUL 132

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 JUN 008/010

ESTIMATED AFR/AP 01 JUL 009/010

PREDICTED AFR/AP 02 JUL-04 JUL 015/010-014/010-010/015

SOLTERWARN

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