

HFUS3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 186

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 JUL 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100 TO 04/2100Z: SOLAR ACTIVITY WAS AT A LOW TO MODERATE LEVEL DURING THE PAST 24 HOURS. AN M1/2B FLARE AT 040254Z (MAX) ACCOUNTED FOR THE MODERATE CONDITIONS. REGION 4532 (S08E59) PRODUCED THIS EVENT AND THEN BECAME QUIET AGAIN. REGION 4532 IS A SMALL D TYPE GROUP WITHOUT THE APPEARANCE FOR SUSTAINED ACTIVITY. IN FACT NONE OF THE VISIBLE REGIONS APPEAR CAPABLE OF SIGNIFICANT ACTIVITY. AGAIN, IN THE PAST 24 HOURS, SMALL REGIONS DEVELOPED. IT WAS DECIDED AFTER ALL THE DATA BECAME AVAILABLE THAT THE NEW SPOTS NEAR N08E13 WERE INDEED PART OF THE MAGNETIC STRUCTURE WHICH DEFINED REGION 4529 YESTERDAY. THE NEW SPOTS AT S03W68 WERE NUMBERED 4535.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT A LOW LEVEL FOR THE NEXT 24 HOURS. AN ISOLATED M EVENT IS POSSIBLE FROM 4525 OR 4532.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT UNSETTLED TO ACTIVE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 05 JUL-07 JUL

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JUL 102

PREDICTED 05 JUL-07 JUL 103/104/105

90 DAY MEAN 04 JUL 118

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 JUL 014/017

ESTIMATED AFR/AP 04 JUL 012/014

PREDICTED AFR/AP 05 JUL-07 JUL 010/015-0107015-010/015

SOLTERWARN

BT