

HFUS3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 212

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 31 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100Z TO 31/2100Z: SOLAR ACTIVITY CONTINUES VERY LOW. REGION 4680 (N06E16) HAS BEEN THE SOLE CENTER OF ACTIVITY AS IT PRODUCED OCCASIONAL SUBFLARES AND MODEST RADIO BURSTS. THE LARGEST FLARE OBSERVED WAS A B7/08 ATTAINING MAXIMUM AT 0725Z. THE REGION IS ELONGATED IN THE E-W DIRECTION AND ULTIMATELY MAY PROVE TO BE TWO DISTINCT GROUPS. HOWEVER, IT IS CONSIDERED TO BE ONE REGION AT THIS TIME. REGION 4682 (S14E29) IS THE ONLY OTHER SPOTTED REGION ON THE DISK. IT HAS BEEN STABLE. EARLIER IN THE PERIOD SPOTS WERE NOTED NEAR N07E25, BUT HAVE SINCE VANISHED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE VERY LOW. REGION 4680 IS THE MOST LIKELY FLARE PRODUCER ON THE DISK, BUT IT SEEMS CAPABLE OF ONLY C-CLASS ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT STORM LEVELS SINCE 0500Z, WITH MAJOR STORM CONDITIONS AT HIGH LATITUDES AND MINOR STORM CONDITIONS AT MID-LATITUDE SITES. THE SOURCE OF THIS DISTURBANCE MAY BE A LONG DURATION X RAY ENHANCEMENT WHICH OCCURRED NEAR 1830Z ON JULY 25. RELATED OPTICAL DATA IS CURRENTLY UNAVAILABLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT ACTIVE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 01 AUG-03 AUG

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 JUL 080

PREDICTED 01 AUG-03 AUG 081/081/081

90 DAY MEAN 31 JUL 079

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 JUL 014/020

ESTIMATED AFR/AP 31 JUL 031/035

PREDICTED AFR/AP 01 AUG-03 AUG 020/025-020/025-020/025

SOLTERWARN

BT