

HFUS3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 220

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY HAS BEEN LOW. OF ALL THE REGIONS, REGION 4554 (N08E28) HAS SHOWN THE MOST DYNAMIC CHANGE. IN THE PAST 24 HOURS IT HAS DEVELOPED INTO A D-TYPE SPOT GROUP WITH STRONG ARCH FILAMENT SYSTEMS THROUGHOUT AND NUMEROUS POINT BRIGHTENINGS ALONG IT'S KINKED INVERSION LINE. THIS INDICATES THAT FURTHER GROWTH IS POSSIBLE. TWO REGIONS WERE NUMBERED TODAY AS 4558 (N09W42) AND 4559 (N13E31) WHICH ARE BOTH B-TYPE SPOT GROUPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. REGION 4554 COULD POSSIBLY PRODUCE ONE OR TWO C-EVENTS, BUT THAT SHOULD BE IT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD WAS AT QUIET LEVELS AT ALL LATITUDES UNTIL 1030Z. SINCE THEN IT WAS GENERALLY UNSETTLED TO SLIGHTLY ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE AT ALL LATITUDES ON THE 8TH. THE FIELD SHOULD THEN CLIMB TO ACTIVE TO STORM LEVELS MID-DAY ON THE 9TH AND THROUGH THE 10TH. THIS ACTIVITY IS FORECAST DUE TO THE CORONAL HOLE MENTIONED IN THE PREVIOUS SDF.

III. EVENT PROBABILITIES 08 AUG-10 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 AUG 090

PREDICTED 08 AUG-10 AUG 092/094/096

90 DAY MEAN 07 AUG 103

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 AUG 005/009

ESTIMATED AFR/AP 07 AUG 006/009

PREDICTED AFR/AP 08 AUG-10 AUG 015/020-030/030-030/040

SOLTERWARN

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