

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 225

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z TO 12/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4554 (N08W36) PRODUCED ONE B1/0F EVENT AT 12/1134Z. IT CONTINUED TO SLOWLY DECAY IN WHITE-LIGHT ASPECTS. ONE NEW REGION WAS ASSIGNED- 4560 (N03W03) WAS A BETA-TYPE (CRO IN WHITE-LIGHT CLASSIFICATION) WITH FOUR SPOTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. NO SIGNIFICANT REGIONS ARE EXPECTED TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: GEOMAGNETIC ACTIVITY WAS AT ACTIVE TO MINOR STORM LEVELS. MINOR LEVELS WERE REPORTED AT HIGH LATITUDES 11/2230-2400; 1030; AND 1330-1500Z. ONE MAJOR STORM LEVEL WAS REPORTED 12/1930Z. LOW AND MID-LATITUDES REMAINED AT ACTIVE LEVELS. THIS ACTIVITY WAS ATTRIBUTED TO MINOR DISAPPEARING FILAMENTS IN CONJUNCTION WITH PERIPHERAL MEDIUM-SPEED SOLAR WIND FROM A WEAK AND

ILL-POSITIONED CORONAL HOLE. TWO FILAMENTS DISAPPEARED - FIRST FROM S01W08 (CAR-051) BEFORE 10/1325Z OF THREE DEGREES; AND SECOND FROM S12W24 (CAR-053) BEFORE 11/1635Z OF EIGHT DEGREES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS. CONTINUED STORM LEVELS ARE EXPECTED AT HIGH LATITUDES DURING MOSTLY NIGHT-TIME PERIODS, WITH ONLY OCCASIONAL MINOR LEVELS AT MID-LATITUDES DURING LOCAL MID-NIGHT HOURS ONLY. THIS CONTINUED ACTIVITY IS EXPECTED DUE TO THE MINOR DISAPPEARING FILAMENTS ENHANCING THE RECURRENT UNSETTLED-TO-ACTIVE CARRINGTON LONGITUDES UPCOMING.

III. EVENT PROBABILITIES 13 AUG-15 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 AUG 086

PREDICTED 13 AUG-15 AUG 085/084/083

90 DAY MEAN 12 AUG 100

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 AUG 012/018

ESTIMATED AFR/AP 12 AUG 018/018

PREDICTED AFR/AP 13 AUG-15 AUG 014/020-014/020-014/015

SOLTERWARN

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