

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/27/87 00:00:00

End : 08/27/87 23:59:00

08/27 22:00

2201

HFUS3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 239

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. A FEW SMALL FLARES WERE OBSERVED IN X-RAY DATA; THE LARGEST WAS A C1.1 AT 1342UT WHICH WAS NOT SEEN OPTICALLY. REGION 4846 (N19W90) WAS OBSERVED TO PRODUCE A SUBFLARE AT 26/2359UT AND SURGING THROUGHOUT THE LATTER PART OF THE DAY AS IT ROTATED OFF THE WEST LIMB. REGION 4845 (N17W02) WAS OBSERVED TO PRODUCE A SUBFLARE AT 1431UT. REPORTS INDICATE THAT THE ACTIVITY WAS ASSOCIATED WITH A SMALL ACTIVE DARK FILAMENT ORIENTED ON THE MORE COMPLEX PART OF THE INVERSION LINE IN THE SOUTHERN PART OF THE REGION. THE REGION CONTINUED TO DECAY IN SUNSPOT NUMBER AND AREA DURING THE PERIOD. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD RANGED FROM UNSETTLED TO MAJOR STORM LEVELS. THE MOST INTENSE PERIOD OF ACTIVITY WAS FROM 1600-1800UT WHEN MID-LATITUDES WERE AT MINOR STORM LEVELS AND HIGH LATITUDES WERE AT MAJOR STORM LEVELS. THE OTHER TIME PERIODS DURING THE DAY WERE CHARACTERIZED BY UNSETTLED TO ACTIVE CONDITIONS AT MID-LATITUDES AND ACTIVE TO MAJOR STORM LEVELS AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO OCCASIONALLY ACTIVE FOR 28 AUGUST, BECOMING UNSETTLED ON 29 AUGUST, AND ACTIVE AGAIN ON 30 AUGUST. THE INCREASE ON 30 AUGUST IS EXPECTED FROM EFFECTS OF A RECURRENT CORONAL HOLE.

III. EVENT PROBABILITIES 28 AUG-30 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 AUG 083

PREDICTED 28 AUG-30 AUG 081/081/082

90 DAY MEAN 27 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 AUG 039/086

ESTIMATED AFR/AP 27 AUG 020/040

PREDICTED AFR/AP 28 AUG-30 AUG 013/015-007/012-016/020

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