

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/29/87 00:00:00

End : 08/29/87 23:59:00

08/29 22:00

2201

HFUS3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 241

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100Z TO 29/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. A C3.6 FLARE WITH A CORRELATED TYPE II RADIO SWEEP WAS OBSERVED AT 0252Z BUT NO OPTICAL OBSERVATIONS OF THE EVENT WERE AVAILABLE. REGION 4845 (N16W30) DISPLAYED WEAK PLAGE FLUCTUATIONS AND CONTINUED TO GRADUALLY DECAY. REGION 4847 (S22E45) CONTINUED AS A SINGLE SPOT WITHOUT PENUMBRA AND WAS OBSERVED TO BE QUIET AND STABLE.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD WAS AT ACTIVE TO MINOR STORM LEVELS AT MID-LATITUDES AND AT MAJOR STORM LEVELS AT HIGH LATITUDES FROM 28/2100Z TO 29/0300Z. CONDITIONS THEN BECAME QUIET TO UNSETTLED UNTIL ABOUT 1630Z WHEN MID-LATITUDES BECAME GENERALLY UNSETTLED AND HIGH-LATITUDES REACHED ACTIVE TO MINOR STORM LEVELS. THE PREVIOUSLY FORECAST ACTIVITY FOR 30 AUGUST BASED ON A RECURRENT CORONAL HOLE MAY HAVE ARRIVED EARLIER THAN EXPECTED AND CAUSED THIS DISTURBANCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT THREE DAYS, WITH PERIODS OF ACTIVE CONDITIONS ON 30 AUGUST AS THE CURRENT CORONAL HOLE ACTIVITY PERSISTS, AND AGAIN ON 1 SEPTEMBER AS ANOTHER CORONAL HOLE MOVES INTO FAVORABLE POSITION ON THAT DATE.

III. EVENT PROBABILITIES 30 AUG-01 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 AUG 078

PREDICTED 30 AUG-01 SEP 079/080/081

90 DAY MEAN 29 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 AUG 014/028

ESTIMATED AFR/AP 29 AUG 013/020

PREDICTED AFR/AP 30 AUG-01 SEP 013/018-010/015-015/020

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