

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/27/86 00:00:00

End : 07/27/86 23:59:00

07/27 22:00

2125

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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 208

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 JUL 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4741 (N10E75) WAS NUMBERED TODAY AS AN HSX TYPE SPOT GROUP. THE REGION ROTATED ONTO THE DISK OVERNIGHT. THE REST OF THE DISK AND LIMBS WERE VERY QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. NO SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS OF MINOR STORM CONDITIONS AT ALL LATITUDES. PERIODS OF MAJOR STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES AND AT SOME MIDDLE LATITUDE STATIONS. THE GEOMAGNETIC STORM WHICH BEGAN WITH A SUDDEN COMMENCEMENT AT 1833 UT ON 24 JULY IS STILL IN PROGRESS. THE STORM IS THE EFFECT OF A SMALL CORONAL HOLE WHOSE LEADING EDGE PASSED THE CENTRAL SOLAR MERIDIAN AT MIDDAY ON 21 JULY. THE BEGIN TIME OF THE GEOMAGNETIC STORM WAS INCORRECTLY LISTED IN SDF 207 (26 JULY) AS 1833 UT 25 JULY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED AT MIDDLE LATITUDES AND ACTIVE AT HIGH LATITUDES FOR THE NEXT THREE DAYS. ISOLATED PERIODS OF ACTIVE CONDITIONS AT MIDDLE LATITUDES AND MINOR STORM CONDITIONS AT HIGH LATITUDES ARE POSSIBLE. THE GEOMAGNETIC STORM IS EXPECTED TO END BY 28 JULY.

III. EVENT PROBABILITIES 28 JUL-30 JUL

CLASS M 02/02/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 JUL 069

PREDICTED 28 JUL-30 JUL 070/071/071

90 DAY MEAN 27 JUL 070

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 JUL 020/032

ESTIMATED AFR/AP 27 JUL 018/020

PREDICTED AFR/AP 28 JUL-30 JUL 010/015-007/020-005/020

SOLTERWARN

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