

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/26/86 00:00:00

End : 07/26/86 23:59:00

07/26 22:00

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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 207

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 JUL 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100 TO 26/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THE DISK IS SPOTLESS. THE SMM SATELLITE OBSERVED SOME EAST LIMB CORONAL ACTIVITY AFTER THE LONG DURATION X-RAY EVENT AT 0400 UT ON 25 JULY. SURGING WAS OBSERVED AT TWO PLACES ON THE NORTHEAST LIMB TODAY. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. REGION 4736 (N07, L-225 CLASS/AREA DAD/080 ON 12 JULY) IS DUE TO RETURN AT MIDDAY ON 27 JULY. THIS REGION PRODUCED NUMEROUS MINOR FLARES ON ITS LAST TRANSIT OF THE DISK. NO OTHER SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: GEOMAGNETIC FIELD ACTIVITY HAS RANGED FROM ACTIVE WITH PERIODS OF MINOR STORM CONDITIONS AT MIDDLE LATITUDES TO MINOR STORM WITH PERIODS OF MAJOR STORM CONDITIONS AT HIGH LATITUDES. A MINOR GEOMAGNETIC STORM WHICH BEGAN AS A SUDDEN COMMENCEMENT AT 1833 UT 25 JULY IS STILL IN PROGRESS. THE STORM IS THE EFFECT OF A SMALL CORONAL HOLE WHOSE LEADING EDGE PASSED THE CENTRAL SOLAR MERIDIAN AT APPROXIMATELY MIDDAY ON 21 JULY (HE 10830 ANGSTROM OPTICAL AND 692 MHZ RADIO DATA).

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE AT MIDDLE LATITUDES AND ACTIVE WITH PERIODS OF MINOR STORM CONDITIONS AT HIGH LATITUDES FOR THE NEXT TWO DAYS. ACTIVITY LEVELS WILL DIMINISH OVER THE NEXT 36-48 HOURS. ISOLATED PERIODS OF MAJOR STORM CONDITIONS AT HIGH LATITUDES ARE POSSIBLE, ESPECIALLY IN THE NIGHTTIME SECTORS, FOR THE NEXT 48 HOURS. THE GEOMAGNETIC STORM IN PROGRESS IS EXPECTED TO END BY 1800 UT 27 JULY.

III. EVENT PROBABILITIES 27 JUL-29 JUL

CLASS M 02/02/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 JUL 069

PREDICTED 27 JUL-29 JUL 069/070/071

90 DAY MEAN 26 JUL 070

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 JUL 019/025

ESTIMATED AFR/AP 26 JUL 020/035

PREDICTED AFR/AP 27 JUL-29 JUL 015/015-010/025-007/035

SOLTERWARN

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