

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/24/86 00:00:00

End : 08/24/86 23:59:00

08/24 22:00

2122

H053 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 236

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 AUG 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4743 (S11W27) HAS LOST ITS SPOTS. REGION 4744 (N05E60) IS STILL AN HSX TYPE SPOT GROUP. PRELIMINARY MAGNETIC ANALYSIS OF THE LATTER REGION INDICATES THAT IT HAS A REVERSED BIPOLARITY (LEADER-NEGATIVE TRAILER-POSITIVE). NO FLARES WERE OBSERVED AND THE REST OF THE DISK AND LIMBS WERE QUIET.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE AT MIDDLE LATITUDES AND ACTIVE WITH MINOR TO MAJOR STORM CONDITIONS AT HIGH LATITUDES. THE GEOMAGNETIC STORM THAT BEGAN WITH A SUDDEN COMMENCEMENT AT 1350 UT 20 AUGUST HAS ENDED. THE SOURCE OF THE DISTURBANCE WAS MOST PROBABLY A RECURRENT CORONAL HOLE OBSERVED ON SEVERAL PAST SOLAR ROTATIONS, BUT ADDITIONAL EFFECTS FROM A LARGE DISAPPEARING FILAMENT CANNOT BE RULED OUT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED AT MIDDLE LATITUDES AND ACTIVE AT HIGH LATITUDES FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 25 AUG-27 AUG

CLASS M 02/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 AUG 068

PREDICTED 25 AUG-27 AUG 069/069/068

90 DAY MEAN 24 AUG 069

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 AUG 026/039

ESTIMATED AFR/AP 24 AUG 014/025

PREDICTED AFR/AP 25 AUG-27 AUG 012/020-010/022-008/015

SOLTERWARN

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