

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/23/86 00:00:00

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

08/23 22:00

2142

NO53 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 235

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 AUG 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100 TO 23/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4743 (S11W15) HAS DECLINED INTO AN AXX TYPE SPOT GROUP. REGION 4744 (N05E72) WAS NUMBERED AS AN HSX TYPE SPOT GROUP AFTER IT ROTATED ONTO THE DISK EARLY IN THE DAY. THIS REGION MAY BE THE RETURN OF REGION 4741 (N08, L-235 CLASS/AREA DK1/200 ON 29 JULY). THE MAGNETIC CONFIGURATION OF OLD REGION 4741 WAS REVERSED FROM WHAT WAS EXPECTED IN THE CURRENT SUNSPOT CYCLE (NUMBER 21). THE MAGNETIC CONFIGURATION OF REGION 4744 IS UNDETERMINED AS YET. NO SIGNIFICANT 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. MINOR FLARE ACTIVITY IS POSSIBLE FROM REGION 4744. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS OF MINOR STORM CONDITIONS AT MIDDLE LATITUDES. PERIODS OF MAJOR STORM CONDITIONS WERE REPORTED AT SOME MIDDLE LATITUDE STATIONS. MINOR TO MAJOR STORM CONDITIONS PREVAILED AT HIGH LATITUDES. THE GEOMAGNETIC STORM WHICH BEGAN WITH A SUDDEN COMMENCEMENT AT 1350 UT 20 AUGUST IS STILL IN PROGRESS. THE SOURCE OF THE DISTURBANCE IS EITHER A RECURRENT CORONAL HOLE OR A LARGE DISAPPEARING FILAMENT, THE FORMER BEING THE MOST PROBABLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE AT ALL LATITUDES FOR THE NEXT 48 HOURS AND UNSETTLED AT MIDDLE LATITUDES (ACTIVE AT HIGH LATITUDES) FOR THE SUBSEQUENT 24 HOURS. THE OVERALL TREND WILL BE TOWARD DIMINISHING ACTIVITY. THE GEOMAGNETIC STORM IS EXPECTED TO END BY 24 AUGUST.

III. EVENT PROBABILITIES 24 AUG-26 AUG

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 AUG 068

PREDICTED 24 AUG-26 AUG 069/069/070

90 DAY MEAN 23 AUG 069

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 AUG 024/062

ESTIMATED AFR/AP 23 AUG 025/040

PREDICTED AFR/AP 24 AUG-26 AUG 018/025-015/020-012/020

SOLTERWARN

BT

NO53