

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 DKI/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.

IIIB. 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

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