

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/22/86 00:00:00

End : 08/22/86 23:59:00

08/22 22:00

2134

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 234

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 22 AUG 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100
TO 22/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4743
(S11E01) HAS BEEN RELATIVELY STABLE AND UNIMPRESSIVE. NO NEW
REGIONS WERE NUMBERED TODAY 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. DULL AND SCATTERED
PLAGE ON THE EAST LIMB APPEAR TO BE THE ONLY REMNANTS OF
RETURNING REGION REGION 4741. NO OTHER REGIONS ARE DUE TO
RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z:
GEOMAGNETIC ACTIVITY HAS RANGED FROM UNSETTLED TO MAJOR STORM
AT MIDDLE LATITUDES AND MINOR TO SEVERE STORM AT HIGH
LATITUDES. PERIODS OF SEVERE STORM WERE OBSERVED AT SEVERAL
MIDDLE LATITUDE STATIONS. THE GEOMAGNETIC STORM BEGAN WITH A
SUDDEN COMMENCEMENT AT 1350 UT 20 AUGUST AND IS STILL IN
PROGRESS. THE SOURCE OF THE DISTURBANCE IS EITHER A RECURRENT
CORONAL HOLE OR A LARGE FILAMENT DISRUPTION, OR BOTH.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC STORM
CONDITIONS ARE EXPECTED TO CONTINUE FOR THE NEXT 36 HOURS,
FOLLOWED BY GENERALLY ACTIVE CONDITIONS IN THE SUBSEQUENT 36
HOURS. PERIODS OF MINOR TO MAJOR STORM CONDITIONS AT MIDDLE
LATITUDES AND MAJOR TO SEVERE STORM CONDITIONS AT HIGH
LATITUDES ARE POSSIBLE DURING THE NEXT THREE DAYS. THE EXPECTED
END TIME OF THE STORM IS UNCLEAR SINCE THE SOURCE OF THE
DISTURBANCE IS UNKNOWN.

III. EVENT PROBABILITIES 23 AUG-25 AUG

CLASS M 01/01/01

CLASS X 01/01 22 AUG 069

PREDICTED 23 AUG-25 AUG 069/069/069

90 DAY MEAN 22 AUG 069

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 AUG 027/041

ESTIMATED AFR/AP 22 AUG 025/065

PREDICTED AFR/AP 23 AUG-25 AUG 022/025-018/020-015/020

SOLTERWARN

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08/22 22:00

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HFUS3 BOU 222200 COR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 234

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 AUG 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4743 (S11E01) HAS BEEN RELATIVELY STABLE AND UNIMPRESSIVE. NO NEW REGIONS WERE NUMBERED TODAY 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. DULL AND SCATTERED PLAGE ON THE EAST LIMB APPEAR TO BE THE ONLY REMNANTS OF RETURNING REGION REGION 4741. NO OTHER REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: GEOMAGNETIC ACTIVITY HAS RANGED FROM UNSETTLED TO MAJOR STORM AT MIDDLE LATITUDES AND MINOR TO SEVERE STORM AT HIGH LATITUDES. PERIODS OF SEVERE STORM WERE OBSERVED AT SEVERAL MIDDLE LATITUDE STATIONS. THE GEOMAGNETIC STORM BEGAN WITH A SUDDEN COMMENCEMENT AT 1350 UT 20 AUGUST AND IS STILL IN PROGRESS. THE SOURCE OF THE DISTURBANCE IS EITHER A RECURRENT CORONAL HOLE OR A LARGE FILAMENT DISRUPTION, OR BOTH.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC STORM CONDITIONS ARE EXPECTED TO CONTINUE FOR THE NEXT 36 HOURS, FOLLOWED BY GENERALLY ACTIVE CONDITIONS IN THE SUBSEQUENT 36 HOURS. PERIODS OF MINOR TO MAJOR STORM CONDITIONS AT MIDDLE LATITUDES AND MAJOR TO SEVERE STORM CONDITIONS AT HIGH LATITUDES ARE POSSIBLE DURING THE NEXT THREE DAYS. THE EXPECTED END TIME OF THE STORM IS UNCLEAR SINCE THE SOURCE OF THE DISTURBANCE IS UNKNOWN.

III. EVENT PROBABILITIES 23 AUG-25 AUG

CLASS M 01/01/01
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 AUG 069
PREDICTED 23 AUG-25 AUG 069/069/069
90 DAY MEAN 22 AUG 069

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 AUG 027/041
ESTIMATED AFR/AP 22 AUG 025/065
PREDICTED AFR/AP 23 AUG-25 AUG 022/025-018/020-015/020
SOLTERWARN

CORRECTED FOR MISSING PROBABILITIES DATA (SECTION III)

BT

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