

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/30/87 00:00:00

End : 09/30/87 23:59:00

09/30 22:00

2209

HFUS3 BOU 302200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 273

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100Z TO 30/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4859

(S24E44) HAS BEEN THE MOST ACTIVE REGION OBSERVED AND PRODUCED THE LARGEST X-RAY EVENT DURING THE PERIOD - A B7/SF FLARE AT

2254 UT. THIS REGION EXHIBITS A BIPOLAR CONFIGURATION WITH

A SMALL NEGATIVE POLE EMBEDDED WITHIN THE LEADER. REGION

4860 (N30E60) CONTINUES TO SLOWLY GROW ALTHOUGH NO FLARES

WERE ATTRIBUTED TO IT. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGIONS 4859 AND 4860 ARE EXPECTED TO INCREASE IN ACTIVITY DURING THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED TO MINOR STORM

LEVELS DURING THE PAST 24 HOURS. MAJOR STORM CONDITIONS

OCCURRED AT HIGH LATITUDES THROUGHOUT THE OBSERVATION

PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD AT

MID-LATITUDES IS EXPECTED TO BE ACTIVE THE FIRST DAY OF THE

FORECAST PERIOD AND BECOME GENERALLY UNSETTLED THEREAFTER.

HIGH LATITUDES ARE EXPECTED TO REMAIN PREDOMINATELY ACTIVE

THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 OCT-03 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 SEP 084

PREDICTED 01 OCT-03 OCT 086/088/092

90 DAY MEAN 30 SEP 087

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 SEP 024/036

ESTIMATED AFR/AP 30 SEP 029/055

PREDICTED AFR/AP 01 SEP-03 OCT 016/027-010/018-010/015

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09/30 22:02

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HFUS3 BOU 302202

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100Z TO 30/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4859 (S24E44) HAS BEEN THE MOST ACTIVE REGION OBSERVED AND PRODUCED THE LARGEST X-RAY EVENT DURING THE PERIOD - A B7/SF FLARE AT 2254 UT. THIS REGION EXHIBITS A BIPOLAR CONFIGURATION WITH A SMALL NEGATIVE POLE EMBEDDED WITHIN THE LEADER. REGION 4860 (N30E60) CONTINUES TO SLOWLY GROW ALTHOUGH NO FLARES WERE ATTRIBUTED TO IT. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGIONS 4859 AND 4860 ARE EXPECTED TO INCREASE IN ACTIVITY DURING THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED TO MINOR STORM LEVELS DURING THE PAST 24 HOURS. MAJOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES THROUGHOUT THE OBSERVATION PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD AT MID-LATITUDES IS EXPECTED TO BE ACTIVE THE FIRST DAY OF THE FORECAST PERIOD AND BECOME GENERALLY UNSETTLED THEREAFTER. HIGH LATITUDES ARE EXPECTED TO REMAIN PREDOMINATELY ACTIVE THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 OCT-03 OCT

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