

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/02/87 00:00:00

End : 09/02/87 23:59:00

09/02 22:00

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HFUS3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 245

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100Z TO 02/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. ONLY SMALL OPTICAL SUBFLARES AND B-CLASS X-RAY EVENTS OCCURRED SINCE YESTERDAY. REGION 4849 (S21E59) HAS ROTATED COMPLETELY INTO VIEW AND APPEARS TO BE A D-CLASS SPOT GROUP. THIS REGION HAS BEEN QUIET SINCE ITS APPEARANCE ON THE DISK. NEW REGION 4850 (S17W63) EMERGED AS A SINGLE, SMALL SPOT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. SUBFLARES ARE EXPECTED FROM REGIONS 4848 (S23E36) AND 4849. THERE IS A SLIGHT CHANCE OF MODERATE ACTIVITY. OLD REGION 4839 (S26,L-281, CLASS/AREA DK1/310 ON 10 AUGUST) IS DUE TO RETURN AT THE EAST LIMB ON 5 SEPTEMBER.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD AT MIDDLE LATITUDES HAS BEEN AT QUIET TO UNSETTLED LEVELS FOR THE PAST 24 HOURS. THE HIGH LATITUDE FIELD WAS AT MOSTLY ACTIVE TO STORM LEVELS WITH MAJOR STORM CONDITIONS EXPERIENCED DURING THE 0300-1030UT PERIODS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE FIRST DAY OF THE FORECAST PERIOD. ACTIVE TO MINOR STORM CONDITIONS ARE POSSIBLE ON THE LAST TWO DAYS AS A RESULT OF THE C6/1N FLARE AND ASSOCIATED FILAMENT DISRUPTION/CORONAL MASS EJECTION FROM REGION 4848 AT 01/1530UT.

III. EVENT PROBABILITIES 03 SEP-05 SEP

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 SEP 084

PREDICTED 03 SEP-05 SEP 086/088/090

90 DAY MEAN 02 SEP 085

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 SEP 023/067

ESTIMATED AFR/AP 02 SEP 015/033

PREDICTED AFR/AP 03 SEP-05 SEP 010/025-010/030-020/040

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