

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/03/87 00:00:00

End : 09/03/87 23:59:00

09/03 22:00

2200

HFUS3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 246

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGIONS 4848 (S24E24) AND 4849 (S22E45) HAVE BOTH PRODUCED SUBFLARE ACTIVITY OVER THE PAST 24 HOURS. THE INVERSION LINE FILAMENT OF REGION 4848 CONTINUES TO BE QUITE ACTIVE. REGION 4849 PRODUCED THE LARGEST FLARE OF THE PERIOD, A C1/1F REACHING MAXIMUM AT 03/1542UT. OTHER REGIONS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. SUBFLARE ACTIVITY IS EXPECTED TO CONTINUE IN REGIONS 4848 AND 4849. SUNSPOT AND H-ALPHA STRUCTURE IN REGION 4849 APPEARS TO HAVE POTENTIAL FOR ISOLATED MODERATE ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET AT MIDDLE LATITUDES. THE HIGH LATITUDE FIELD WAS MOSTLY UNSETTLED WITH ACTIVE CONDITIONS OCCURRING DURING THE NINETY MINUTE PERIOD ENDING AT 03/0900UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED AT MIDDLE LATITUDES WITH ACTIVE CONDITIONS POSSIBLE ON 5 SEPTEMBER DUE TO THE FLARE AND FILAMENT DISRUPTION WHICH OCCURRED IN REGION 4848 AT 01/1530UT. THE HIGH LATITUDE FIELD COULD BE AT STORM LEVELS DURING THIS TIME PERIOD.

III. EVENT PROBABILITIES 04 SEP-06 SEP

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 SEP 086

PREDICTED 04 SEP-06 SEP 088/090/092

90 DAY MEAN 03 SEP 085

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 SEP 013/033

ESTIMATED AFR/AP 03 SEP 006/012

PREDICTED AFR/AP 04 SEP-06 SEP 010/025-020/040-010/030

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09/03 22:00

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HFUS3 BOU 032200 COR02

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PREDICTED AFR/AP 04 SEP-06 SEP 010/025-020/040-010/030

PLAIN

RETRANSMITTED FOR LEARMONTH - NO CHANGE TO TEXT

BT

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