

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/11/87 00:00:00

End : 09/11/87 23:59:00

09/11 22:00

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HFUS3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 254

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100Z TO 11/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4849 (S22W58) PRODUCED SIX SMALL FLARES: THE LARGEST BEING A C1/ON AT 10/2224Z WITH NO SIGNIFICANT RADIO PARAMETERS. IT SLOWED ITS DECAY, BUT STILL DISPLAYED AN OVERALL DECREASE IN MOST ASPECTS. REGION 4851 (S26E05) PRODUCED A SURPRISE C1/1N HYDER-FLARE AT 11/1904Z WITH SOME VERY MINOR RADIO ASSOCIATIONS. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4849 PROVIDES A VERY SLIGHT CHANCE OF POSSIBLE PROTON PRODUCING FLARES. IT IS EXPECTED TO CONTINUE TO DECAY VERY SLOWLY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVELS THROUGHOUT MOST OF PERIOD. THE SUDDEN STORM COMMENCEMENT AT 10/1135Z WAS FOLLOWED BY MAJOR TO MINOR STORM CONDITIONS AT HIGH LATITUDES. A BRIEF PERIOD OF SEVERE CONDITIONS AT HIGH LATITUDES OCCURRED AT THE END OF THE FIRST DAY (10/2400Z-10/130Z). THIS STORM IS PROBABLY ASSOCIATED WITH AN EXTENSION OF THE NORTHERN POLAR CROWN CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT MINOR STORM TO ACTIVE LEVELS THE FIRST HALF OF THE PERIOD AS IT RESTABILIZES. IT IS THEN EXPECTED TO RETURN TO MORE NORMAL ACTIVE TO UNSETTLED CONDITIONS THE LAST HALF OF THE PERIOD.

III. EVENT PROBABILITIES 12 SEP-14 SEP

CLASS M 15/10/05

CLASS X 01/01/01

PROTON 05/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 SEP 094

PREDICTED 12 SEP-14 SEP 091/089/087

90 DAY MEAN 11 SEP 087

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 SEP 025/043

ESTIMATED AFR/AP 11 SEP 027/050

PREDICTED AFR/AP 12 SEP-14 SEP 018/035-012/025-008/020

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