

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/12/87 00:00:00

End : 04/12/87 23:59:00

04/12 22:00

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HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 102

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z TO 12/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4790 (S31E03) GREW AND ENGULFED THE NORTHEASTERNMOST TRAILER SPOT OF REGION 4787 (S33W02) TO BECOME A DELTA-TYPE. THESE TWO REGIONS ARE NOT PRODUCING ANY SIGNIFICANT EVENTS REGARDLESS OF THIS INTERACTION. REGION 4790 CONTINUED TO SHIFT SLOWLY AHEAD AND DOMINATE THE INTERMEDIATE AREA, WHILE ITS DISTANT TRAILING SPOTS DECAYED. THE SAME GENERAL SWING FOREWARD WAS OBSERVED IN REGION 4787 WITH ITS TRAILING SPOTS ALSO APPARENTLY DECAYING. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGIONS 4790 AND 4787 PROVIDE A FAIR CHANCE OF MODERATE ACTIVITY. A VERY SLIGHT TO SLIGHT CHANCE OF A PROTON FLARE CONTINUES AS THE LARGE, MAIN SPOT IN REGION 4790 SLOWLY MOVES BYE AND AHEAD OF THE FRAGMENTED TRAILING PORTION OF REGION 4787. THEIR RECENT HISTORY CONTRADICTS THE CLASSIFICATION, BUT THE DYNAMIC SHEARING OCCURRING HERE STATISTICALLY PRODUCES SIGNIFICANT IF NOT MAJOR FLARING.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z:

THE GEOMAGNETIC FIELD WAS UNSETTLED TO QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE. THIS SLIGHT ENHANCEMENT ABOVE RECURRENT VALUES IS EXPECTED DUE TO THE INFLUENCE OF THE SOLAR REGIONS ROTATING INTO A FAVORABLE CONNECTION POINT AND THE RESULTANT SLIGHT AGITATION OF THE FIELD.

III. EVENT PROBABILITIES 13 APR-15 APR

CLASS M 40/40/40

CLASS X 04/04/04

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 APR 098

PREDICTED 13 APR-15 APR 096/093/090

90 DAY MEAN 12 APR 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 APR 008/010

ESTIMATED AFR/AP 12 APR 006/008

PREDICTED AFR/AP 13 APR-15 APR 013/015-013/015-013/015

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