

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/11/87 00:00:00

End : 04/11/87 23:59:00

04/11 22:00

2202

HFUS3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 101

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100Z

TO 11/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4790 (S30E16)

CONTINUED TO DEVELOP SPOTS SOUTH AND AHEAD OF ITS MAIN SPOT.

ITS ENCRONDACHMENT INTO REGION 4787 (S33E11) PRODUCED SEVERAL

SUB-FLARES BUT NO SIGNIFICANT ACTIVITY. MINOR UMBRA WERE ALSO

OBSERVED BEHIND THE MAIN SPOT BUT PROBABLY JUST NOW REPORTED

MORE DUE TO ROTATION THAN ANY CURRENT EMERGENCE IN THE TRAILER.

REGION 4787 ALSO DEVELOPED WESTWARD SOMEWHAT BUT AT THE

EXPENSE OF ITS TRAILER GROUP. A KINKED INVERSION LINE IN THE

LEADING GROUP BETWEEN DEVELOPING REGIONS 4790 AND 4787 WAS

THE SITE OF MOST OF THE ACTIVITY. THE APPARENT SLOW INVASION

BY REGION 4790 IMMEDIATELY SOUTH-WEST OF ITS MAIN SPOT ALSO

SETS UP A POTENTIAL DELTA MAGNETIC CONFIGURATION. NEWLY

ASSIGNED REGION 4791 (N25E73) WAS ONLY OBSERVED AS AN ALPHA

TYPE, BUT WEAK ACTIVITY THERE IMPLIED SOME MINOR BI-POLAR

GROUP NOT YET VISIBLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE

LOW. REGION 4790 AND 4787 PROVIDE A FAIR CHANCE OF MODERATE

ACTIVITY. A VERY SLIGHT TO SLIGHT CHANCE OF A PROTON FLARE

CONTINUES AS THE MERGING REGIONS RECONFIGURE AND POTENTIAL

DELTA STRUCTURES ARE CREATED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z:

THE GEOMAGNETIC FIELD WAS UNSETTLED TO QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS

EXPECTED TO BE UNSETTLED TO ACTIVE.

III. EVENT PROBABILITIES 12 APR-14 APR

CLASS M 40/40/40

CLASS X 04/04/04

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 APR 101

PREDICTED 12 APR-14 APR 101/099/096

90 DAY MEAN 11 APR 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 APR 010/012

ESTIMATED AFR/AP 11 APR 007/010

PREDICTED AFR/AP 12 APR-14 APR 013/015-013/015-015/018

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