

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

2002

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 ENCROACHMENT 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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