

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/03/87 00:00:00

End : 12/03/87 23:59:00

12/03 22:00

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HFUS3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 337

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4899 (N27E07) SHOWED SOME GROWTH AND PRODUCED A SUBFLARE. A FILAMENT DISAPPEARED SOMETIME BETWEEN 0300-1400Z IN THE NORTHWEST QUADRANT. THE REMAINDER OF THE SOLAR DISK WAS QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD RANGED FROM QUIET TO ACTIVE CONDITIONS WITH SOME MINOR STORM PERIODS AT HIGH LATITUDES LATE IN THE DAY. THIS ACTIVITY MIGHT HAVE OCCURRED IN RESPONSE TO A CORONAL MASS EJECTION REPORTED BY SMM/GODDARD ON 01 DECEMBER BETWEEN 1600-1800Z WHICH WAS ASSOCIATED WITH AN ERUPTIVE PROMINENCE ON THE NORTHWEST LIMB.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED WITH BRIEF ACTIVE SUBSTORM PERIODS ON 04 DECEMBER AS THE CURRENT DISTURBANCE SUBSIDES. CONDITIONS ARE EXPECTED TO BE UNSETTLED FOR 05 DECEMBER AND MOST OF THE DAY 06 DECEMBER. AN INCREASE TO SLIGHTLY ACTIVE CONDITIONS IS EXPECTED LATE ON 06 DECEMBER IN RESPONSE TO AN EXTENSION OF THE NORTHERN POLAR CORONAL HOLE TO ABOUT N20.

III. EVENT PROBABILITIES 04 DEC-06 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 DEC 088

PREDICTED 04 DEC-06 DEC 088/089/089

90 DAY MEAN 03 DEC 096

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 DEC 005/006

ESTIMATED AFR/AP 03 DEC 016/019

PREDICTED AFR/AP 04 DEC-06 DEC 013/017-007/012-010/015

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