

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/29/87 00:00:00

End : 12/29/87 23:59:00

12/29 22:00

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HFUS3 BOU 292200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 363

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100Z TO 29/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4912

(S34E26) PRODUCED A FEW SUBFLARES AND SHOW SOME DECAY IN THE TRAILER SPOTS. A NEW REGION 4915 (N34W40) EMERGED AS A SIMPLE BIPOLAR GROUP WITHOUT PENUMBRA. A CORNAL MASS EJECTION WAS OBSERVED BY SMM AT THE SOUTHWEST LIMB AT 1401Z. THE EVENT WAS CORRELATED WITH A LONG DURATION X-RAY ENHANCEMENT WHICH LASTED APPROXIMATELY 7 HOURS (FROM 1400Z-2100Z) AND PEAKED AT 1940Z WITH A MAXIMUM FLUX OF C1.7. THE LACK OF AN H-ALPHA SIGNATURE OF THE EVENT SUGGESTS ITS LOCATION WAS BEHIND THE WEST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. REGION 4912 IS EXPECTED TO CONTINUE TO PRODUCE SMALL FLARES WITH A CONTINUED BUT REDUCED CHANCE FOR ISOLATED M-FLARE ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 30 DEC-01 JAN

CLASS M 20/15/15

CLASS X 02/01/01

PROTON 02/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 DEC 105

PREDICTED 30 DEC-01 JAN 106/106/106

90 DAY MEAN 29 DEC 098

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 DEC 001/005

ESTIMATED AFR/AP 29 DEC 005/006

PREDICTED AFR/AP 30 DEC-01 JAN 005/010-007/010-010/012

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