

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/28/87 00:00:00

End : 12/28/87 23:59:00

12/28 22:00

2201

HFUS3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 362

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100Z TO 28/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4912 (S34E38) CONTINUES TO BE THE ONLY SPOTTED REGION ON THE SOLAR DISK AND PRODUCED SEVERAL C-LEVEL X-RAY CLASS FLARES DURING THE PERIOD. THE LARGEST WAS A C7/SN AT 28/0610Z. THE REGION HAS A LARGE LEADER SPOT FOLLOWED BY SMALLER TRAILERS AND IS CHARACTERIZED MAGNETICALLY BY AN EAST-WEST INVERSION LINE WITH SEVERAL KINKS IN IT. THE REMAINDER OF THE SOLAR DISK WAS QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 4912 IS EXPECTED TO CONTINUE TO PRODUCE C-LEVEL FLARES AND IS LIKELY TO PRODUCE SOME ISOLATED M-FLARE ACTIVITY DURING THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD WAS QUIET AT ALL LATITUDES.

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

III. EVENT PROBABILITIES 29 DEC-31 DEC

CLASS M 50/45/40

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 DEC 106

PREDICTED 29 DEC-31 DEC 108/109/109

90 DAY MEAN 28 DEC 098

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 DEC 001/005

ESTIMATED AFR/AP 28 DEC 002/010

PREDICTED AFR/AP 29 DEC-31 DEC 005/010-005/010-010/012

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