

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/16/87 00:00:00

End : 12/16/87 23:59:00

12/16 22:00

2203

HFUS3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 350

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100Z TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4906 (S33E37) IS THE MOST COMPLEX REGION ON THE DISK AND IS GROWING IN BOTH WHITE LIGHT AND H-ALPHA. THE REMAINDER OF THE SOLAR DISK IS QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. HOWEVER REGION 4906 HAS SHOWN POTENTIAL TO INCREASE THE ACTIVITY LEVELS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT GENERALLY ACTIVE LEVELS FOR MID-LATITUDES. HIGH LATITUDES HAVE EXPERIENCED ACTIVE TO SEVERE STORM CONDITIONS. THIS INCREASE IN ACTIVITY MAY BE DUE TO THE ISOLATED SOUTHERN CORONAL HOLE WHICH CROSSED THE SOLAR CENTRAL MERIDIAN ON 13 DECEMBER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED AT MID-LATITUDES. HIGH LATITUDES MAY EXPERIENCE UNSETTLED TO ACTIVE CONDITIONS.

III. EVENT PROBABILITIES 17 DEC-19 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 DEC 099

PREDICTED 17 DEC-19 DEC 097/097/097

90 DAY MEAN 16 DEC 096

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 DEC 010/013

ESTIMATED AFR/AP 16 DEC 029/046

PREDICTED AFR/AP 17 DEC-19 DEC 015/028-010/018-007/015

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