

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/17/87 00:00:00

End : 11/17/87 23:59:00

11/17 22:00

2200

HFUS3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 321

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100Z TO 17/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4890 (S25E02) CONTINUES TO PRODUCE SMALL SUBFLARES AND ASSOCIATED LOW LEVEL X-RAY BURSTS. DEVELOPMENT IN THIS REGION HAS NOT BEEN SIGNIFICANT OVER THE PAST 24 HOURS. TWO NEW REGIONS WERE NUMBERED TODAY, REGION 4892 (S19E44) AND 4893 (S17W14), BOTH OF WHICH ARE SMALL AND MAGNETICALLY SIMPLE. OTHER REGIONS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. SMALL FLARES ARE EXPECTED FROM REGION 4890, BUT THIS REGION DOES NOT SEEM CAPABLE OF ENERGETIC ACTIVITY. OLD REGION 4875 (N30, L-358, CLASS/AREA EAI/350 ON 29 OCTOBER) IS DUE TO RETURN ON THE EAST LIMB AT THE END OF THE FORECAST PERIOD. THIS REGION PRODUCED SEVERAL M-CLASS X-RAY FLARES AND A PROTON EVENT AT SATELLITE ALTITUDES DURING ITS LAST DISK PASSAGE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC FIELD AT MIDDLE LATITUDES HAS BEEN AT QUIET LEVELS FOR THE PAST 24 HOURS. THE HIGH LATITUDE FIELD HAS BEEN QUIET TO UNSETLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET AT MIDDLE LATITUDES AND UNSETLED TO ACTIVE AT HIGH LATITUDES.

III. EVENT PROBABILITIES 18 NOV-20 NOV

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 NOV 099

PREDICTED 18 NOV-20 NOV 100/100/098

90 DAY MEAN 17 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 NOV 007/009

ESTIMATED AFR/AP 17 NOV 002/006

PREDICTED AFR/AP 18 NOV-20 NOV 005/013-005/016-010/019

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