

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/19/87 00:00:00

End : 11/19/87 23:59:00

11/19 22:00

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HFUS3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 323

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100Z TO 19/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4891 (S22E34) PRODUCED AN M1/1N FLARE AT 19/0747Z, RADIO BURSTS AT DISCRETE FREQUENCIES ACCOMPANIED THIS EVENT. REGION 4891 HAS CONTINUED TO GROW IN BOTH WHITE LIGHT AND H-ALPHA. REGION 4890 (S25W26) HAS SLOWLY DECAYED, HOWEVER, IT HAS PRODUCED NUMEROUS SUBFLARES. NEW REGION 4894 (S15W14) EMERGED ONTO THE DISK AS A SMALL SINGLE SPOT AND HAS SINCE DECAYED TO A SPOTLESS PLAGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. REGIONS 4890 AND 4891 HAVE THE POTENTIAL TO INCREASE ACTIVITY TO MODERATE LEVELS. OLD REGION 4875 (N30 L-358 CLASS/AREA EAI/350 ON 29 OCTOBER) IS EXPECTED TO ROTATE AROUND THE EAST LIMB TOMMOROW. THIS REGION PRODUCED M-LEVEL X-RAY FLARES AND A PROTON EVENT AT SATELLITE ALTITUDES DURING ITS LAST DISK PASSAGE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO UNSETTLED LEVELS AT MID-LATITUDES AND UNSETTLED TO ACTIVE LEVELS AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE.

III. EVENT PROBABILITIES 20 NOV-22 NOV

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 NOV 109

PREDICTED 20 NOV-22 NOV 112/113/114

90 DAY MEAN 19 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 NOV 003/008

ESTIMATED AFR/AP 19 NOV 012/018

PREDICTED AFR/AP 20 NOV-22 NOV 010/020-015/025-010/015

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