

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/18/87 00:00:00

End : 11/18/87 23:59:00

11/18 22:00

2227

HFUS3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 322

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z TO 18/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4890 (S25W13) PRODUCED AN M1/0B FLARE AT 18/0320Z. A TYPE II WAS RECORDED WITH THIS EVENT AS WERE MODEST RADIO BURSTS AT DISCRETE FREQUENCIES. REGION 4891 (S21E48) IS GROWING AND HAS PRODUCED NUMEROUS SUBFLARES.

IB. SOLHFUS3 BOU 182200 RTD

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II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO VERY LOW. REGION 4890 HAS SHOWN ABILITY TO SIGNIFICANTLY INCREASE THE ACTIVITY. OLD REGION 4875 (NGO, L-359 CLASS/AREA EAI/350 ON 29 OCTOBER) IS DUE TO RETURN ON 20 NOVEMBER. 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 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET AT MID-LATITUDES AND QUIET TO UNSETTLED AT HIGH LATITUDES.

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

III. EVENT PROBABILITIES 19 NOV-21 NOV

CLASS M 15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 NOV 102

PREDICTED 19 NOV-21 NOV 102/103/104

90 DAY MEAN 18 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 NOV 001/006

ESTIMATED AFR/AP 18 NOV 001/008

PREDICTED AFR/AP 19 NOV-21 NOV 005/010-010/020-015/025

NLMN

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11/18 22:00

2302

HFUS3 BOU 182200 RTD

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PREDICTED AFR/AP 19 NOV-21 NOV 005/010-010/020-015/025

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11/18 22:00

2307

HFUS3 BOU 182200 COR2

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I.B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO VERY LOW. REGION 4890 HAS SHOWN ABILITY TO SIGNIFICANTLY INCREASE THE ACTIVITY. OLD REGION 4875 (N30, L-358 CLASS/AREA EAI/350 ON 29 OCTOBER) IS DUE TO RETURN ON 20 NOVEMBER. THIS REGION PRODUCED SEVERAL M-CLASS X-RAY FLARES AND A PROTON EVENT AT SATELLITE ALTITUDES DURING ITS LAST DISK PASSAGE.

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NNNN

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