

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/24/87 00:00:00

End : 11/24/87 23:59:00

11/24 22:00

2201

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 328

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4891 (S21W32) IS SLOWLY DECAYING AND TRANSVERSE MAGNETIC FIELD MEASUREMENTS SHOW ONLY SLIGHT SHEAR HERE. REGION 4896 (S34W44) WHICH WAS EMERGING RAPIDLY YESTERDAY CONTINUES TO BUT AT A REDUCED RATE. TRANSVERSE MAGNETIC FIELD DATA ON THIS REGION INDICATE A VERY LOW ENERGY CONFIGURATION. REGION 4895 (N29E34) PRODUCED A LONG DURATION C1/1F FLARE WITH MAXIMUM NEAR 24/2000Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE VERY LOW. AN ISOLATED CLASS M FLARE IS POSSIBLE FROM REGIONS 4890 AND 4891 BUT THE LIKELIHOOD IS DECREASING.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD REMAINED DISTURBED. MAJOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES BETWEEN 23/2200-24/0300Z AND 24/1000-1200Z. ACTIVE TO MINOR STORM LEVELS WERE MEASURED THE REMAINDER OF THE PERIOD. MIDDLE LATITUDE SECTORS WERE ACTIVE FOR THE MAJORITY OF THE DAY TRENDING TOWARD UNSETTLED AT THE END OF THE PERIOD.

GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD SLOWLY RECOVER OVER THE NEXT THREE DAYS FROM THE RECENT DISTURBANCE. INTERMITTENT MINOR STORM LEVELS ARE POSSIBLE ON 25 NOV DURING LOCAL NIGHTTIMES.

III. EVENT PROBABILITIES 25 NOV-27 NOV

CLASS M 20/20/15

CLASS X 05/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 NOV 112

PREDICTED 25 NOV-27 NOV 110/108/106

90 DAY MEAN 24 NOV 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 NOV 031/047

ESTIMATED AFR/AP 24 NOV 024/044

PREDICTED AFR/AP 25 NOV-27 NOV 015/028-012/020-010/015

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