

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/16/87 00:00:00

End : 11/16/87 23:59:00

11/16 22:00

2202

HFUS3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 320

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100Z TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4890 (S25E14) PRODUCED A FEW OPTICAL SUBFLARES AND ONE C-CLASS X-RAY EVENT OVER THE PAST 24 HOURS. SUNSPOT GROWTH HAS OCCURRED IN PORTIONS OF THIS REGION AND THE LARGE ASYMMETRIC PENUMBRA OF THE LEADER SPOTS APPEARS TO BE FRAGMENTING. NEW REGION 4891 (S21E72) ROTATED AROUND THE EAST LIMB AND DOES NOT APPEAR COMPLEX AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. THE NUMBER OF SMALL FLARES FROM REGION 4890 IS EXPECTED TO INCREASE DUE TO THE EVOLUTION TAKING PLACE. THERE IS A REMOTE CHANCE OF M-CLASS X-RAY ACTIVITY FROM THIS REGION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO UNSETTLED LEVELS FOR THE PAST 24 HOURS. ISOLATED PERIODS OF ACTIVE CONDITIONS OCCURRED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY QUIET AT MIDDLE LATITUDES. THE HIGH LATITUDE FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE.

III. EVENT PROBABILITIES 17 NOV-19 NOV

CLASS M 10/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 NOV 097

PREDICTED 17 NOV-19 NOV 098/095/095

90 DAY MEAN 16 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 NOV 011/014

ESTIMATED AFR/AP 16 NOV 008/010

PREDICTED AFR/AP 17 NOV-19 NOV 007/018-005/018-005/015

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