

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/22/87 00:00:00

End : 05/22/87 23:59:00

05/22 22:00

2201

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 142

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 MAY 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100Z TO 22/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4811 (N30W16) CONTINUES TO PRODUCE SMALL C-CLASS X-RAY EVENTS, SMALL OPTICAL SUBFLARES AND PLAGE FLUCTUATIONS. THE SUNSPOTS IN THIS REGION HAVE INCREASED IN PENUMBRAL AREA OVER THE PAST 24 HOURS AND A DELTA CONFIGURATION MAY FORM IF THE PRESENT GROWTH TREND CONTINUES. H-ALPHA STRUCTURE HAS CHANGED LITTLE. REGION 4810 (S23W25) HAS DECAYED TO A SPOTLESS PLAGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. THE CHANCE FOR MODERATE ACTIVITY WILL INCREASE AS REGION 4811 CONTINUES TO DEVELOP IN COMPLEXITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR THE PAST 24 HOURS. THE GEOMAGNETIC DISTURBANCE FORECAST FOR TODAY HAS NOT YET OCCURRED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 23 MAY-25 MAY

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 MAY 098

PREDICTED 23 MAY-25 MAY 098/098/096

90 DAY MEAN 22 MAY 081

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 MAY 002/007

ESTIMATED AFR/AP 22 MAY 007/009

PREDICTED AFR/AP 23 MAY-25 MAY 010/012-007/010-005/010

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