

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/22/86 00:00:00

End : 12/22/86 23:59:00

12/22 22:00 /

2000

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 356

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 DEC 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100Z TO 22/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4762

(S27E16) HAS CONTINUED TO GROW, DEVELOPING PENUMBRA ON THE TRAILER SPOT. MAGNETIC ANALYSIS INDICATES THAT THIS IS A NEW CYCLE REVERSE POLARITY BETA TYPE SUNSPOT GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. THERE IS A SLIGHT CHANCE FOR C FLARE ACTIVITY OUT OF REGION 4762.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE, WITH A PERIOD OF MINOR STORM CONDITIONS AT HIGH LATITUDES FROM 1500-1930UT ON 22 DECEMBER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE WITH BRIEF PERIODS OF MINOR STORM CONDITIONS AT HIGH LATITUDES FOR 23 DECEMBER, BECOMING UNSETTLED ON 24 DECEMBER AND QUIET TO UNSETTLED FOR 25 DECEMBER.

III. EVENT PROBABILITIES 23 DEC-25 DEC

CLASS M 02/02/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 DEC 074

PREDICTED 23 DEC-25 DEC 074/074/074

90 DAY MEAN 22 DEC 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 DEC 010/012

ESTIMATED AFR/AP 22 DEC 015/020

PREDICTED AFR/AP 23 DEC-25 DEC 015/020-010/012-005/015

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