

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/23/86 00:00:00

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

12/23 22:00

2078

HFUS3 BOU 232200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 357

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 DEC 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100Z TO 23/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4762 (S27E03) IS NOW A CAO TYPE SPOT GROUP. NO FLARES HAVE BEEN OBSERVED. A SMALL FILAMENT DISAPPEARED NEAR S42W71 OVERNIGHT. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. NO REGIONS ARE DUE TO RETURN. THERE IS A SLIGHT CHANCE FOR FLARE ACTIVITY IN REGION 4762.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED AT ALL LATITUDES EARLY AND LATE IN THE PERIOD. ACTIVITY LEVELS INCREASED AFTER 0900UT 23 DECEMBER AND REACHED MINOR STORM AT MIDDLE LATITUDES AND MAJOR STORM AT HIGH LATITUDES BY 1500UT 23 DECEMBER. THE PATTERN OF ACTIVITY IS CONSISTENT WITH A WEAK CORONAL HOLE EFFECT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED WITH ACTIVE PERIODS AT MIDDLE LATITUDES AND ACTIVE WITH OCCASIONAL PERIODS OF GEOMAGNETIC STORM CONDITIONS AT HIGH LATITUDES FOR THE NEXT THREE DAYS. THE FILAMENT DISRUPTION IS NOT EXPECTED TO PRODUCE ANY SIGNIFICANT ACTIVITY.

III. EVENT PROBABILITIES 24 DEC-26 DEC

CLASS M 04/04/04

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 DEC 072

PREDICTED 24 DEC-26 DEC 072/072/072

90 DAY MEAN 23 DEC 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 DEC 013/016

ESTIMATED AFR/AP 23 DEC 021/025

PREDICTED AFR/AP 24 DEC-26 DEC 014/015-010/015-010/015

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