

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 01/28/86 00:00:00

End : 01/28/86 23:59:00

01/28 22:00

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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 028

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 JAN 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. OLD REGION 4710 IS DUE BACK ON THE SOUTHEAST LIMB LATE ON 30 JANUARY. YELLOW LINE CORONAL EMISSION WAS OBSERVED IN THAT AREA EARLIER TODAY. WHETHER OR NOT THIS EMISSION IS ASSOCIATED WITH 4710 IS QUESTIONABLE BUT IN ANY CASE, IT DOES INDICATE A DYNAMIC ENVIRONMENT IN THAT LOCALE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL FOR THE NEXT THREE DAYS. THE THIRD DAY SHOULD SHOW SOME INDICATIONS AS TO THE POTENTIAL FOR FLARES FROM 4710.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT GENERALLY ACTIVE LEVELS WITH MINOR STORM CONDITIONS AT MID LATITUDES, AND MAJOR STORM CONDITIONS AT HIGH LATITUDES, OCCURRING INTERMITTENTLY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO CONTINUE AT ACTIVE TO MINOR STORM LEVELS(MAJOR STORM AT HIGH LATITUDES) FOR ANOTHER 24 TO 36 HOURS AND THEN EXPERIENCE A DAY OF BASICALLY ACTIVE CONDITIONS. THE THIRD DAY THE FORECAST COULD SEE THE FIELD RETURN TO INTERMITTENT STORM CONDITIONS AS A RESULT OF FILAMENT ACTIVITY.

III. EVENT PROBABILITIES 29 JAN-31 JAN

CLASS M 01/01/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JAN 072

PREDICTED 29 JAN-31 JAN 073/074/075

90 DAY MEAN 28 JAN 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 JAN 035/045

ESTIMATED AFR/AP 28 JAN 025/040

PREDICTED AFR/AP 29 JAN-31 JAN 020/025-015/015-014/025

SOLTERWARN

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