

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 01/29/86 00:00:00

End : 01/29/86 23:59:00

01/29 22:00

2122

10033 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 029

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 JAN 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100 TO 29/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. THE DISK IS STILL SPOTLESS. THE YELLOW LINE CORONAL EMISSION MENTIONED IN YESTERDAYS FORECAST IS LESS INTENSE TODAY; HOWEVER, A SMALL EAST LIMB PROTRUSION ON THE EAST-WEST 10 CM DRIFT SCAN IS SLIGHTLY LARGER THAN YESTERDAY. MORE CONFIDENCE IS BEING GAINED IN THIS PHENOMENA BEING ASSOCIATED WITH THE RETURN OF OLD REGION 4710.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL FOR THE NEXT THREE DAYS. AN INCREASE IN THE POSSIBILITY OF ENERGETIC ACTIVITY CAN BE EXPECTED AS 4710 ROTATES CLOSER TO THE VISIBLE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. MINOR TO MAJOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS FOR THE NEXT THREE DAYS. NIGHTTIME SECTORS CAN EXPECT MINOR STORM CONDITIONS AT LATITUDES AND MAJOR STORM CONDITIONS AT HIGH LATITUDES DURING THIS INTERVAL. A FILAMENT DISRUPTION ON 27 JANUARY IS EXPECTED TO IMPACT THE FIELD LATE ON 30 OR EARLY ON 31 JANUARY WHEN THE MORE DISTURBED FIELD CONDITIONS SHOULD BE EXPERIENCED.

III. EVENT PROBABILITIES 30 JAN-01 FEB

CLASS M 01/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 JAN 073

PREDICTED 30 JAN-01 FEB 074/075/076

90 DAY MEAN 29 JAN 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 JAN 033/034

ESTIMATED AFR/AP 29 JAN 015/022

PREDICTED AFR/AP 30 JAN-01 FEB 014/015-014/025-012/020

SOLTERWARN

BT

NNNN

<003>