

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/29/86 00:00:00

End : 10/29/86 23:59:00

10/29 22:00

2224

HFUS3 BOU 292200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 302

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 OCT 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100Z TO 29/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4750 (N25W82) PRODUCED A C1.2 X-RAY FLARE AND A 245 MHZ RADIO BURST OF 21 F.U. AT 2127UT ON 28 OCTOBER. THE REGION IS DECAYING AS IT APPROACHES THE WEST LIMB. REGION 4751 (S27W46) AND 4752 (S14W40) ARE BOTH SIMPLE BI-POLAR GROUPS AND APPEAR TO BE GROWING. REGION 4754 (N01E45) IS A FLUCTUATING H-TYPE GROUP AND PRODUCED SOME SUB-FLARE ACTIVITY. REGION 4753 (S21E09) IS QUIET AND STABLE. AN ACTIVE SURGE REGION WAS OBSERVED (28/2323UT) AT THE EAST LIMB AT LATITUDE S01. AN ACTIVE PROMINENCE WAS ALSO OBSERVED AT THE EAST LIMB FROM 0445UT-0959UT AT LATITUDE N43.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. REGIONS 4750, 4751, AND 4754 ARE THE REGIONS MOST LIKELY TO PRODUCE FLARES.

REGIONS 4750 AND 4751 ARE EXPECTED TO ROTATE OFF AT ABOUT 30/1500UT AND 01/1200UT RESPECTIVELY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE, WITH A BRIEF PERIOD OF MINOR STORM CONDITIONS AT HIGH LATITUDES FROM 29/1200-29/1330UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR 30 OCTOBER AND UNSETTLED FROM 31 OCTOBER TO 1 NOVEMBER.

III. EVENT PROBABILITIES 30 OCT-01 NOV

CLASS M 25/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 OCT 093

PREDICTED 30 OCT-01 NOV 089/080/077

90 DAY MEAN 29 OCT 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 OCT 009/011

ESTIMATED AFR/AP 29 OCT 015/018

PREDICTED AFR/AP 30 OCT-01 NOV 015/014-010/010-010/015

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10/29 22:05

2225

HFUS3 BOU 292205 RTD

SDF NUMBER 302

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