

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/26/86 00:00:00

End : 05/26/86 23:59:00

05/26 22:00

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HFUSS BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 146

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100 TO 26/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4731 (N08W29) PRODUCED A C1/ON SUBFLARE VERY EARLY IN THE PERIOD AS IT EVOLVED INTO A BETA-GAMMA. IT CONTINUED TO SUPPORT POINT BRIGHTENINGS, ARCHED FILAMENTS, AND SMALL SUBFLARES (B-LEVEL AND SUB-FAINT) THROUGHOUT THE PERIOD. A FINAL C1/O/F EVENT WITH A FIVE DEGREE DISAPPEARING FILAMENT OCCURRED AT 26/1829Z. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4731 PROVIDES A VERY SLIGHT CHANCE OF MODERATE (M-LEVEL X-RAY) ACTIVITY AS IT CONTINUES TO SLOWLY WEAKEN AND DECAY. IT ALSO PROVIDES A VERY SLIGHT CHANCE OF PROTON EVENT GENERATION ON THE SECOND DAY (28 MAY) AS IT WILL BE FAVORABLY CONNECTED AND STILL RETAIN SOME FLARE POTENTIAL AT 43 DEGREES WEST.

I. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE. BRIEF MINOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES MIDWAY THROUGH THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE. THIS IS BASED ON DISAPPEARING FILAMENTS OF 24 MAY. THERE IS A SLIGHT CHANCE OF STORM CONDITIONS 28-29 MAY.

III. EVENT PROBABILITIES 27 MAY-29 MAY

CLASS M 15/10/05

CLASS X 01/01/01

PROTON 01/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 075

PREDICTED 27 MAY-29 MAY 075/074/073

90 DAY MEAN 26 MAY 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 MAY 012/022

ESTIMATED AFR/AP 26 MAY 009/015

PREDICTED AFR/AP 27 MAY-29 MAY 010/020-010/020-013/015

SOLTERWARN

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