

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/27/87 00:00:00

End : 05/27/87 23:59:00

05/27 22:00

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HFUS3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 147

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 MAY 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4811 (N28W83) IS ONE OF ONLY TWO SPOTTED REGIONS ON THE DISK CURRENTLY. THE REGION HAS CONTINUED TO PRODUCE SUBFLARES, POINT BRIGHTNINGS TO NEAR FLARE INTENSITY, AND WEAK TO MODERATE MULTIPLE FREQUENCY RADIO SWEEPS. THE REGION IS DUE TO ROTATE OFF THE WEST LIMB TOMORROW. REGION 4812 (N23E06) HAS REMAINED RELATIVELY QUIET. THE REMAINDER OF THE DISK AND LIMBS ARE QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW DURING THE NEXT THREE DAYS. NO SIGNIFICANT ACTIVITY IS EXPECTED AFTER REGION 4811 IS OFF THE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AT MID LATITUDES. HIGH LATITUDE STATIONS OBSERVED MINOR TO MAJOR STORM CONDITIONS THE FIRST HALF OF THE PERIOD AND ACTIVE TO UNSETTLED CONDITIONS THE SECOND HALF. THE ORIGIN OF THE ACTIVITY IS UNKNOWN, BUT IS BELIEVED TO BE ASSOCIATED WITH THE M-CLASS X-RAY EVENT THAT OCCURRED ON 24 MAY.

IB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE ON 28-29 MAY AND UNSETTLED ON 30 MAY.

III. EVENT PROBABILITIES 28 MAY-30 MAY

CLASS M 10/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MAY 085

PREDICTED 28 MAY-30 MAY 082/078/077

90 DAY MEAN 27 MAY 082

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 MAY 011/015

ESTIMATED AFR/AP 27 MAY 012/032

PREDICTED AFR/AP 28 MAY-30 MAY 012/025-012/015-009/012

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