

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/21/87 00:00:00

End : 07/21/87 23:59:00

07/21 22:00

2202

HFUS3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 202

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 JUL 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100Z TO 21/2100Z: SOLAR ACTIVITY WAS VERY LOW. NEWLY NUMBERED REGION 4828 (N19W02) EMERGED EARLY IN THE PERIOD. REGION 4829 (S18E24) EMERGED VERY LATE IN THE PERIOD. REGION 4827 (S23E64) ROTATED MORE FULLY ONTO THE DISK, AND WAS A DAO BETA-TYPE. IT PRODUCED ONLY ONE SUBFLARE WITH A WEAK X-RAY CORRELATION, BUT STILL SUPPORTED SURGING AND FILAMENT ACTIVITY DENOTING SIGNIFICANT POTENTIAL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4827 PROVIDES A VERY SLIGHT CHANCE OF MODERATE ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: UNSETTLED TO QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED THE FIRST DAY (22 JUL). AN UNSETTLED TO ACTIVE DISTURBANCE IS EXPECTED THE SECOND AND THIRD DAYS (23-24 JUL) IS RESPONSE TO THE 25 DEGREE LONG FILAMENT THAT DISAPPEARED BY 20/1320Z. OCCASIONAL STORM CONDITIONS ARE POSSIBLE DURING THESE LAST TWO DAYS.

III. EVENT PROBABILITIES 22 JUL-24 JUL

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JUL 093

PREDICTED 22 JUL-24 JUL 095/097/099

90 DAY MEAN 21 JUL 081

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 JUL 011/013

ESTIMATED AFR/AP 21 JUL 007/012

PREDICTED AFR/AP 22 JUL-24 JUL 008/012-012/016-010/014

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