

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/23/87 00:00:00

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

07/23 22:00

2246

HFUS3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 204

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 JUL 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100Z TO 23/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4826 (S28W32)

CONTINUED TO PRODUCE SMALL C-LEVEL SUBFLARES WITHOUT MAJOR RADIO ASPECTS. IT WAS A DAI CLASSIFICATION, WITH POSSIBLE ABUTMENT COMPLICATIONS DUE TO ITS PROXIMITY TO THE FOLLOWING REGION

4824 (S32W18). REGION 4827 (S23HFUS3 BOU 232200 RTD

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4824 (S32W18). REGION 4827 (S23E38) DEVELOPED A MORE MATURE CONFIGURATION, AND MAY HAVE A BETA-GAMMA MAGNETIC STRUCTURE EMERGING, BUT IT PRODUCED EVEN SMALLER C-LEVEL SUBFLARES THAN REGION 4826. NEWLY NUMBERED REGION 4831 (N29E75) ROTATED ONTO THE DISK AS A ESO.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGION 4826 PROVIDES A SLIGHT CHANCE OF MODERATE ACTIVITY. REGION 4827 ALSO STILL HAS A VERY SLIGHT CHANCE OF MODERATE LEVEL POTENTIAL, ESPECIALLY WITH ITS BETA-GAMMA POSSIBILITY. RETURNING REGION 4822 (S18, CAR - 112) IS EXPECTED BACK DURING 25 JULY. IT WILL PROBABLY ONLY BE A PLAGE AREA WITHOUT SPOTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE THE FIRST DAY (24 JUL). THIS IS DUE TO THE 25 DEGREE LONG FILAMENT THAT DISAPPEARED ON 20 JULY. THE LAST TWO DAYS (25-26 JUL) ARE EXPECTED TO BE UNSETTLED TO QUIET.

III. EVENT PROBABILITIES 24 JUL-26 JUL

CLASS M 15/20/20

CLASS X 02/03/03

PROTON 02/03/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 JUL 112

PREDICTED 24 JUL-26 JUL 115/117/112

90 DAY MEAN 23 JUL 081

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 JUL 011/012

ESTIMATED AFR/AP 23 JUL 005/012

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0023 22:00

2248

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IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100Z TO 23/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4826 (S28W32) CONTINUED TO PRODUCE SMALL C-LEVEL SUBFLARES WITHOUT MAJOR RADIO ASPECTS. IT WAS A DAI CLASSIFICATION, WITH POSSIBLE ABUTMENT COMPLICATIONS DUE TO ITS PROXIMITY TO THE FOLLOWING REGION 4824 (S32W18). REGION 4827 (S23E38) DEVELOPED A MORE MATURE CONFIGURATION, AND MAY HAVE A BETA-GAMMA MAGNETIC STRUCTURE EMERGING, BUT IT PRODUCED EVEN SMALLER C-LEVEL SUBFLARES THAN REGION 4826. NEWLY NUMBERED REGION 4831 (N29E75) ROTATED ONTO THE DISK AS A ESO.

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