

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/27/87 00:00:00

End : 07/27/87 23:59:00

07/27 22:00

0025

HFUS3 BOU 272200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 208

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 JUL 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. THE HIGHLIGHT OF THE INTERVAL WAS AN M-2 LIMB FLARE FROM REGION 4826 (S29W84), REACHING MAXIMUM AT 1815Z. THIS VERY IMPULSIVE EVENT WAS CHARACTERIZED BY A RADIO BURST OF 260 FLUX UNITS AT 10 CM, AND SIMILAR OUTPUTS AT OTHER WAVELENGTHS. PRIOR TO THIS FLARE THE REGION HAD PRODUCED OCCASIONAL C-CLASS SUBFLARES. THE OTHER FOUR SPOT GROUPS WERE QUIET AND MOSTLY STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. THE LIKELIHOOD OF CONTINUED M-CLASS ACTIVITY WILL LESSEN AS REGION 4826 DEPARTS. SURGING IS EXPECTED NEAR S29 AT WEST LIMB FOR THE NEXT FEW DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AT ALL LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED. HIGH LATITUDES MAY OBSERVE MILDLY ACTIVE CONDITIONS EARLY IN THE PERIOD AS A CONSEQUENCE OF A LONG-DURATION X-RAY EVENT ON 24 JULY.

III. EVENT PROBABILITIES 28 JUL-30 JUL

CLASS M 20/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 JUL 102

PREDICTED 28 JUL-30 JUL 098/094/091

90 DAY MEAN 27 JUL 083

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 JUL 004/008

ESTIMATED AFR/AP 27 JUL 005/011

PREDICTED AFR/AP 28 JUL-30 JUL 010/020-010/015-010/015

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07/27 22:00

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JOINT USAF/NOAA REPORT OF SOLAR HOUSS BOU 272130

JOINT USAF/NOAA DATA ACQUISITION REPORT