

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/24/87 00:00:00

End : 07/24/87 23:59:00

07/24 22:00

2235

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 205

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 JUL 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY WAS MODERATE DUE TO AN M3/1B FLARE FROM REGION 4826 (S28W44) AT 24/1004Z. IT WAS ACCOMPANIED BY A TENFLARE /2695MHZ BURST/ BUT NO OTHER MAJOR RADIO ASPECTS. A PARALLEL RIBBON FLARE OCCURRED IN REGION 4825 (N22W12) AT 24/1702Z CORRELATED WITH A TYPE II SWEEP AND A LONG DURATION X-RAY EVENT. THIS REGION HAS BEEN SPOTLESS SINCE IT WAS FIRST NUMBERED ON 17/2200Z BECAUSE OF ANOTHER SUBFLARE. NO NEW REGION WAS NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGION 4826 PROVIDES A SLIGHT CHANCE OF MODERATE ACTIVITY. IT ALSO PROVIDES A VERY SLIGHT CHANCE OF BOTH HIGH ACTIVITY AND A POSSIBLE PROTON PRODUCING FLARE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE. A SUDDEN IMPULSE OCCURRED AT 24/1636Z AND WAS PROBABLY ASSOCIATED WITH THE 25 DEGREE LONG DISAPPEARING FILAMENT OF 20 JUL. ISOLATED MINOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES JUST AFTER THIS SHOCK.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE THE FIRST HALF OF THE PERIOD AS THE CURRENT DISTURBANCE SUBSIDES. THE LAST HALF IS AGAIN EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS DUE TO THE HYDER-FLARE TODAY IN COMBINATION WITH THE M3/1B LAST NIGHT.

III. EVENT PROBABILITIES 25 JUL-27 JUL

CLASS M 25/25/25

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JUL 111

PREDICTED 25 JUL-27 JUL 107/100/094

90 DAY MEAN 24 JUL 082

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 JUL 005/010

ESTIMATED AFR/AP 24 JUL 013/018

PREDICTED AFR/AP 25 JUL-27 JUL 020/028-014/022-018/030

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