

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/11/87 00:00:00

End : 08/11/87 23:59:00

08/11 22:00

2201

HFUS3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 223

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100Z TO 11/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4835

(S23W74) HAS BEEN QUIET AND IS WITHIN A DAY OF TRANSITTING THE WEST LIMB. REGION 4839 (S25E47) HAS BEEN QUIET EXCEPT FOR WEAK X-RAY EVENTS AND OPTICAL SUBFLARES. THE CONFIGURATION

OF THIS REGION IS SOMEWHAT UNUSUAL IN THAT IT HAS TWO SEPARATE NEUTRAL LINES WITHIN THE REGION. THE PENUMBRA HAS THE APPEARANCE OF FRAGMENTING, HOWEVER, IT IS IN REALITY MORE A CASE OF RESTRUCTURING. THE SPOTS ARE FEWER THAN

YESTERDAY BUT ARE LARGER AND DARKER. CONSIDERING THE INTERNAL COMPLEXITY OF REGION 4839 AND ITS STABILITY OF THE PAST 24 HOURS, THE PROBABILITIES WILL BE LOWERED SLIGHTLY BUT NOT ENOUGH TO MINIMIZE ITS POTENTIAL. NEW REGION 4840 (N23E27) IS A BXD/BETA GROUP THAT HAS REMAINED QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. THE POTENTIAL OF REGION 4839 DUE TO ITS UNUSUAL FIELD CONFIGURATION WILL KEEP PROBABILITIES UP UNTIL COMPLETE ANALYSIS CAN BE ACCOMPLISHED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE DURING THE NEXT TWO DAYS.

THE FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS ON THE THIRD DAY. THE FINAL DAYS ACTIVITY IS BASED ON RECURRENCE AND A FILAMENT DISAPPEARANCE (21 DEGREES LONG, N40E03) THAT OCCURRED LATE ON 09 AUGUST.

III. EVENT PROBABILITIES 12 AUG-14 AUG

CLASS M 10/05/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 AUG 099

PREDICTED 12 AUG-14 AUG 100/098/097

90 DAY MEAN 11 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 AUG 005/010

ESTIMATED AFR/AP 11 AUG 005/012

PREDICTED AFR/AP 12 AUG-14 AUG 012/016-010/020-018/035

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