

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/12/87 00:00:00

End : 08/12/87 23:59:00

08/12 22:00

2202

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 224

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z

TO 12/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4839 (S25E36) HAS BEEN RELATIVELY QUIET CONSIDERING THE POTENTIAL OF THE TWO PREVIOUS DAYS. NEW REGION 4841 (S29E68) IS CURRENTLY A DSO/BETA GROUP. THERE ARE SUSPICIONS THAT REGION 4841 IS MORE COMPLEX THAN CAN BE DETERMINED AT THE PRESENT TIME. THE REGION NEEDS TO BE FURTHER ONTO THE DISK FOR A TRUELY ACCURATE ASSESSMENT. NEW REGION 4842 (S23E74) IS A SPOT GROUP WITH AN HSX/ALPHA CLASSIFICATION. THIS REGION HAS NOT INDICATED ANY SPECIAL FEATURES AS OF THIS WRITING. THE REMAINDER OF THE DISK AND LIMBS ARE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. THE PROBABILITIES OF CONTINUED C-CLASS X-RAY EVENTS REMAINS SIGNIFICANT BASED ON POTENTIAL OF REGION 4839 AND THE SUSPECTED COMPLEXITY OF REGION 4841.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE WITH MINOR STORM CONDITIONS OCCURRING AT HIGH LATITUDES BETWEEN 12/1330UT AND 12/1930UT. THE PRIMARY REASONING FOR THE INCREASE IN ACTIVITY IN THE PAST 24 HOURS WAS RECURRENCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE ON 13 AND 15 AUGUST. THE ACTIVITY IS EXPECTED TO INCREASE TO ACTIVE TO MINOR STORM LEVELS ON 14 AUGUST.

III. EVENT PROBABILITIES 13 AUG-15 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 AUG 097

PREDICTED 13 AUG-15 AUG 098/099/099

90 DAY MEAN 12 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 AUG 009/012

ESTIMATED AFR/AP 12 AUG 015/024

PREDICTED AFR/AP 13 AUG-15 AUG 015/028-018/035-015/025

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