

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/30/86 00:00:00

End : 07/30/86 23:59:00

07/30 22:00

2130

HFUS3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 211

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 JUL 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100 TO 30/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4741 (N09E38) IS A DSO TYPE SPOT GROUP AND HAS CHANGED LITTLE. THE NUMBER AND INTENSITY OF FLARES IN THIS REGION HAS DIMINISHED. THE REST OF THE DISK AND LIMBS WERE VERY QUIET AND NO NEW REGIONS WERE NUMBERED. THE OTTAWA 10.7 CM SOLAR RADIO FLUX VALUE (2800 MHZ) IS AGAIN DOUBTFUL DUE TO WEATHER.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. REGION 4741 IS STILL CAPABLE OF ADDITIONAL FLARE ACTIVITY. NO SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY ACTIVE AT ALL LATITUDES WITH SOME PERIODS OF MINOR STORM CONDITIONS AT THE HIGHER LATITUDES AND UNSETTLED CONDITIONS AT THE LOWER LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED AT MIDDLE LATITUDES AND ACTIVE AT HIGH LATITUDES FOR THE NEXT THREE DAYS. ON 02 AUGUST THERE IS AN INCREASED CHANCE OF MINOR STORM CONDITIONS AT THE HIGHER LATITUDES AS THE REMNANTS OF A FILAMENT DISRUPTION AND ASSOCIATED CORONAL MASS EJECTION REACH THE EARTH. THE 39 DEGREE FILAMENT WAS LOCATED ON THE NORTHEAST LIMB AND THE CME EXTENDED INTO THE SOUTHERN CORONA. THE FILAMENT DISAPPEARED EARLY ON 28 JULY.

III. EVENT PROBABILITIES 31 JUL-02 AUG

CLASS M 05/05/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 JUL 071

PREDICTED 31 JUL-02 AUG 073/072/071

90 DAY MEAN 30 JUL 070

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 JUL 017/024

ESTIMATED AFR/AP 30 JUL 012/020

PREDICTED AFR/AP 31 JUL-02 AUG 008/015-008/020-012/025

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