

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/07/87 00:00:00

End : 09/07/87 23:59:00

09/07 22:00

2230

HFUS3 BDU 072200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 250

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100Z TO 07/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW TO LOW.

REGION 4849 (S22W05) IS NOW AN EKI/BETA SPOT GROUP. IT HAS BEGUN TO PRODUCE NUMEROUS C-CLASS X-RAY EVENTS DURING THE PREVIOUS 24 HOURS. THE TRAILER PORTION OF THE REGION HAS CONTINUED TO GROW IN AREA AND SPOTS. THE LATEST REPORTS INDICATED THE TRAILER IS TRYING TO CHANGE CHARACTERISTICS AND TURN THE REGION INTO A BETA-DELTA CONFIGURATION. THERE HAVE ALSO BEEN REPORTS OF THE REGION ROTATING IN A CLOCKWISE MANNER. THE REMAINING REGION**AVE BEEN GENERALLY UNINTER**TING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 4849 HAS INCREASED IN ENOUGH FACTORS TO INDICATE THAT MODERATE OR HIGHER ACTIVITY IS POSSIBLE. THE INCREASE IN FLARES, BOTH X-RAY AND OPTICAL, IS EXPECTED TO CONTINUE. CLOSE MONITORING FOR FURTHER DEVELOPMENT WILL CONTINUE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO ACTIVE LEVELS FOR THE PAST 24 HOURS. THE FLUCTUATIONS CAUSING THE ACTIVE CONDITIONS MAY BE THE BEGINNING OF THE FORECASTED ACTIVITY DISCUSSED THE PREVIOUS TWO DAYS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS FOR THE NEXT TWO DAYS. THE FIELD IS EXPECTED TO BE UNSETTLED AT MID LATITUDES ON THE THIRD DAY. THE HIGH LATITUDE STATIONS WILL STILL EXPERIENCE MINOR STORM CONDITIONS ON THE FINAL DAY AS THE DISTURBANCE LINGERS AT THOSE STATIONS.

III. EVENT PROBABILITIES 08 SEP-10 SEP

CLASS M 30/30/30

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 SEP 102

PREDICTED 08 SEP-10 SEP 099/098/096

90 DAY MEAN 07 SEP 086

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 SEP 008/015

ESTIMATED AFR/AP 07 SEP 016/020

PREDICTED AFR/AP 08 SEP-10 SEP 025/035-018/030-015/030

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