

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/13/87 00:00:00

End : 08/13/87 23:59:00

08/13 22:00

2201

HFUS3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 225

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE.

REGION 4839 (S26E20) PRODUCED AN M1.2 X-RAY EVENT (MAX 1344UT).

THE REGION HAS RESTRUCTURED TO THE POINT OF THE LEADER BEING CONSIDERABLY LARGER IN SPOT AND PENUMBRA AREA. REGION 4841 (S32E55) HAS BEEN RELATIVELY QUIET. THIS REGION HAS EXPERIENCED LARGE AREA GROWTH OVERNIGHT. REGION 4842 (S25E64) PRODUCED A C4.9/1B EVENT (MAX 1604UT). THIS REGION IS STILL TOO FAR EAST TO DO AN ACCURATE ANALYSIS OF ITS STRUCTURE, HOWEVER, EARLY ASSESSEMENTS INDICATE THE REGION TO HAVE GOOD POTENTIAL FOR FUTURE ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT THREE DAYS. ALL THREE REGIONS LOCATED IN THE SOUTHEAST APPEAR TO HAVE MORE THAN ENOUGH POTENTIAL TO CREATE ENERGETIC EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AT MID LATITUDES AND AT MINOR TO MAJOR STORM CONDITIONS AT HIGH LATITUDES. THE STORM CONDITIONS LASTED UNTIL 131330UT WHEN THE HIGH LATITUDE FIELD RETURNED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS ON 14 AUGUST, ACTIVE ON 15 AUGUST, AND UNSETTLED TO ACTIVE ON 16 AUGUST. THE PRIMARY BASIS FOR THE FORECAST PERIOD IS RECURRENCE.

III. EVENT PROBABILITIES 14 AUG-16 AUG

CLASS M 20/20/20

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 AUG 101

PREDICTED 14 AUG-16 AUG 102/103/102

90 DAY MEAN 13 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 AUG 016/025

ESTIMATED AFR/AP 13 AUG 020/047

PREDICTED AFR/AP 14 AUG-16 AUG 020/032-016/025-015/025

NNNN

<003>