

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/07/87 00:00:00

End : 08/07/87 23:59:00

08/07 22:00

2201

HFUS3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 219

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100Z TO 07/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. THE LEVEL OF ACTIVITY INCREASED FROM LOW TO MODERATE LATE IN THE PERIOD WHEN REGION 4835 (S24W19) PRODUCED AN M1.1/SF FLARE (07/1947UT MAX). THIS REGION HAD SEVERAL C-CLASS X-RAY EVENTS AND OPTICAL SUBFLARES DURING THE PAST 24 HOURS. 4835 EXPERIENCED RAPID GROWTH SINCE YESTERDAY, MORE THAN DOUBLING IN AREA AND SUNSPOT NUMBER. GROWTH CONTINUES IN THE CENTRAL PORTIONS OF THE REGION WHERE THE MAGNETIC STRUCTURE IS BECOMING MORE COMPLEX.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 4835 IS EXPECTED TO CONTINUE PRODUCING C-CLASS FLARES. ISOLATED M-CLASS ACTIVITY IS POSSIBLE.

OLD REGION 4826 (S28, L-253) IS EXPECTED TO RETURN ON THE THIRD DAY OF THE FORECAST PERIOD. THIS REGION PRODUCED MODERATE LEVEL ACTIVITY DURING ITS LAST DISK PASSAGE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET AT MIDDLE LATITUDES. THE HIGH LATITUDE FIELD HAS BEEN QUIET TO UNSETTLED WITH ACTIVE CONDITIONS EXPERIENCED DURING THE 03-06UT PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED.

III. EVENT PROBABILITIES 08 AUG-10 AUG

CLASS M : 30/30/30

CLASS X : 01/01/01

PROTON : 01/01/01

PCAF : GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 AUG 092

PREDICTED 08 AUG-10 AUG 094/096/096

90 DAY MEAN 07 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 AUG 012/016

ESTIMATED AFR/AP 07 AUG 005/013

PREDICTED AFR/AP 08 AUG-10 AUG 005/011-005/011-005/014

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