

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/22/87 00:00:00

End : 08/22/87 23:59:00

08/22 22:00

2201

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 234

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100Z TO 22/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 4845 (N15E64) PRODUCED TWO M-CLASS - REACHING MAXIMUM AT 0932 AND 1648Z - AND THREE C-CLASS FLARES DURING THE PERIOD. MODEST DISCRETE FREQUENCY RADIO BURSTS ACCOMPANIED THE M-CLASS EVENTS.

OSTENSIBLY THE REGION IS A SIMPLE BIPOLE WITH NOTHING TO SUGGEST SUCH A PROLIFIC FLARE OUTPUT. THERE HAS BEEN SURGING AT WEST LIMB WHERE REGION 4839 IS DEPARTING NEAR S26. THE REST OF THE DISK AND LIMBS HAS BEEN QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. CONTINUED M-CLASS ACTIVITY FROM REGION 4845 CANNOT BE DISCOUNTED, DESPITE THE REGION'S BENIGN APPEARANCE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET TO UNSETTLED. HIGH LATITUDES OBSERVED ACTIVE CONDITIONS LATE IN THE INTERVAL.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO MILDLY ACTIVE. DISAPPEARING FILAMENT-RELATED ACTIVITY IS POSSIBLE 24 AUG.

III. EVENT PROBABILITIES 23 AUG-25 AUG

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 AUG 094

PREDICTED 23 AUG-25 AUG 094/093/092

90 DAY MEAN 22 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 AUG 006/013

ESTIMATED AFR/AP 22 AUG 006/011

PREDICTED AFR/AP 23 AUG-25 AUG 010/018-015/020-010/015

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