

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/01/87 00:00:00

End : 08/01/87 23:59:00

08/01 22:00

2201

HFUS3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 213

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100Z TO 01/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4827 (S21W73) PRODUCED A C8.6/SN FLARE AT 1831Z. THE EVENT WAS PRECEDED BY FILAMENT ACTIVITY ALONG THE REGION'S NEUTRAL LINE AND PRODUCED A VISIBLE SURGE ON THE LIMB. RADIO ANALYSTS OBSERVED A TYPE II SWEEP SIMULTANEOUSLY AND ESTIMATE A SHOCK SPEED OF 900-1000 KM/S. THE GROWTH RATE OF REGION 4834 (N16W16) HAS SLOWED CONSIDERABLY DURING THE PERIOD AND THE GROUP NOW APPEARS TO BE RELATIVELY STABLE. A NEW REGION 4835 (S23E59) WAS NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4834 CONTINUES TO HAVE THE POTENTIAL TO PRODUCE SMALL FLARES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET TO UNSETTLED AT MID-LATITUDES AND UNSETTLED TO SLIGHTLY ACTIVE AT HIGH LATITUDES. IN ADDITION A SUBSTORM OCCURRED FROM ABOUT 0130-0730UT: THE FIELD WAS AT MINOR STORM LEVELS AT MID-LATITUDES AND MAJOR STORM LEVELS AT HIGH LATITUDES DURING THE SUBSTORM.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED AT MID-LATITUDES AND UNSETTLED TO ACTIVE AT HIGH LATITUDES. AN INCREASE IN ACTIVITY IS FORECAST FOR 04 AUGUST BECAUSE OF THE FILAMENT ERUPTION REPORTED IN PART IA.

III. EVENT PROBABILITIES 02 AUG-04 AUG

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 AUG 088

PREDICTED 02 AUG-04 AUG 086/084/084

90 DAY MEAN 01 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 JUL 011/030

ESTIMATED AFR/AP 01 AUG 012/025

PREDICTED AFR/AP 02 AUG-04 AUG 010/016-008/011-012/020

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