

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 PRE-

CEDED 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

NNNN

<003>