

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/07/87 00:00:00

End : 11/07/87 23:59:00

11/07 22:00

2201

HFUS3 BDU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 311

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100Z

TO 07/2100Z: SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL.

REGION 4875, NOW A DAY BEYOND WEST LIMB NEAR N31, PRODUCED YET

ANOTHER M-CLASS EVENT. IN PARTICULAR, IT WAS AN M1 LIMB FLARE

THAT REACHED MAXIMUM AT 07/2104Z, AND IS STILL IN PROGRESS AT

THIS WRITING. AN ERUPTIVE PROMINENCE OUT TO .34 SOLAR RADII

AND FLARE LOOPS WERE OBSERVED IN THE VICINITY OF THE REGION.

TYPE IV SWEEP WAS ALSO REPORTED. REGION 4886 (S27E46), STILL

A SPOTLESS PLAGE, GENERATED A C1/1N FLARE AT 07/1515Z AS IT

REMAINED ACTIVE. A NEW REGION - 4887 (S19E29) - WAS BORN ON

THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE

GENERALLY VERY LOW. AN ISOLATED M-CLASS EVENT IS REMOTELY

POSSIBLE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET AT MID-

LATITUDES AND GENERALLY UNSETTLED AT HIGH LATITUDES. A

DISTINCT SUDDEN IMPULSE WAS RECORDED BY GROUND-BASED

MAGNETOMETERS AT APPROXIMATELY 06/2358Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS

EXPECTED TO BE AT PREDOMINANTLY ACTIVE TO MINOR STORM LEVELS

FOR THE NEXT THREE DAYS. THIS DISTURBANCE IS PREDICATED ON A

COMBINATION OF FLARE AND POSSIBLY CORONAL HOLE EFFECTS.

III. EVENT PROBABILITIES 08 NOV-10 NOV

CLASS M 15/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 NOV 096

PREDICTED 08 NOV-10 NOV 097/097/098

90 DAY MEAN 07 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 NOV 008/014

ESTIMATED AFR/AP 07 NOV 005/010

PREDICTED AFR/AP 08 NOV-10 NOV 015/032-020/027-025/035

NNNN

<003>

11/07 22:00

209

HFUS3 BDU 072200 COR

..... CORRECTED COPY
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 07 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100Z
07/2100Z: SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL.
REGION 4875, NOW A DAY BEYOND WEST LIMB NEAR N31, PRODUCED YET
ANOTHER M-CLASS EVENT. IN PARTICULAR, IT WAS AN M1 LIMB FLARE
THAT REACHED MAXIMUM AT 07/2014Z, AND IS STILL IN PROGRESS AT
THIS WRITING. AN ERUPTIVE PROMINENCE OUT TO .34 SOLAR RADII,
AND FLARE LOOPS WERE OBSERVED IN THE VICINITY OF THE REGION.
TYPE IV SWEEP WAS ALSO REPORTED. REGION 4886 (S27E46), STILL
A SPOTLESS PLAGE, GENERATED A C1/1M FLARE AT 07/1515Z AS IT
REMAINED ACTIVE. A NEW REGION - 4887 (S19E29) - WAS BORN ON
THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
GENERALLY VERY LOW. AN ISOLATED M-CLASS EVENT IS REMOTELY
POSSIBLE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET AT MID-
LATITUDES AND GENERALLY UNSETTLED AT HIGH LATITUDES. A
DISTINCT SUDDEN IMPULSE WAS RECORDED BY GROUND-BASED
MAGNETOMETERS AT APPROXIMATELY 06/2358Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE AT PREDOMINANTLY ACTIVE TO MINOR STORM LEVELS
FOR THE NEXT THREE DAYS. THIS DISTURBANCE IS PREDICATED ON A
COMBINATION OF FLARE AND POSSIBLY CORONAL HOLE EFFECTS.

III. EVENT PROBABILITIES 08 NOV-10 NOV

CLASS M	15/10/10
CLASS X	01/01/01
PROTON	01/01/01
RF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	07 NOV	096
PREDICTED	08 NOV-10 NOV	097/097/098
90 DAY MEAN	07 NOV	093

V. GEOMAGNETIC A INDICES

OBSERVED	AFR/AP	06 NOV	008/014
ESTIMATED	AFR/AP	07 NOV	005/010
PREDICTED	AFR/AP	08 NOV-10 NOV	015/032-020/027-025/035

NNNN

<003>