

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/10/87 00:00:00

End : 12/10/87 23:59:00

12/10 22:00

2226

HFUS3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 344

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100Z

TO 10/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4901

(S19W66) REMAINS THE MOST ACTIVE REGION ON THE DISK BUT CAN

ONLY PRODUCE A FEW SUBFLARES AND C-CLASS X-RAY EVENTS. A LONG

DURATION C-CLASS X-RAY EVENT (NO OPTICAL CORRELATION) OCCURRED

FROM 10/1523UT TO 10/1756UT. HFUS3 BOU 102200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 344

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100Z

TO 10/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4901

(S19W66) REMAINS THE MOST ACTIVE REGION ON THE DISK BUT CAN

ONLY PRODUCE A FEW SUBFLARES AND C-CLASS X-RAY EVENTS. A LONG

DURATION C-CLASS X-RAY EVENT (NO OPTICAL CORRELATION) OCCURRED

FROM 10/1523UT TO 10/1756UT. NO NEW REGIONS WERE NUMBERED

TODAY.

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

VERY LOW. REGION 4901 IS EXPECTED TO PRODUCE ADDITIONAL

SUBFLARES AND LOW LEVEL C-CLASS X-RAY EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z:

THE GEOMAGNETIC FIELD AT MIDDLE LATITUDES HAS RANGED FROM

QUIET TO ACTIVE LEVELS FOR THE PAST 24 HOURS. THE HIGH

LATITUDE FIELD HAS RANGED FROM QUIET TO MINOR STORM LEVELS,

WITH MAJOR STORM CONDITIONS EXPERIENCED BETWEEN 10/1500UT AND

10/1800UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS

EXPECTED TO BE MOSTLY ACTIVE FOR THE NEXT THREE DAYS AS THE

RESULT OF THE EQUATORWARD EXTENSION OF A NORTHERN CORONAL

HOLE.

III. EVENT PROBABILITIES 11 DEC-13 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 DEC 093

PREDICTED 11 DEC-13 DEC 092/090/090

90 DAY MEAN 10 DEC 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 DEC 004/010

ESTIMATED AFR/AP 10 DEC 014/025

PREDICTED AFR/AP 11 DEC-13 DEC 022/025-018/020-018/020

NNNN

<003>
12/10 22:00

2231

H 53 BOU 102200 RTD
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 344

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 10 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100Z
TO 10/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4901
(S19W66) REMAINS THE MOST ACTIVE REGION ON THE DISK BUT CAN
ONLY PRODUCE A FEW SUBFLARES AND C-CLASS X-RAY EVENTS. A LONG
DURATION C-CLASS X-RAY EVENT (NO OPTICAL CORRELATION) OCCURRED
FROM 10/1523UT TO 10/1756UT. NO NEW REGIONS WERE NUMBERED
TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW. REGION 4901 IS EXPECTED TO PRODUCE ADDITIONAL
SUBFLARES AND LOW LEVEL C-CLASS X-RAY EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z:
THE GEOMAGNETIC FIELD AT MIDDLE LATITUDES HAS RANGED FROM
QUIET TO ACTIVE LEVELS FOR THE PAST 24 HOURS. THE HIGH
LATITUDE FIELD HAS RANGED FROM QUIET TO MINOR STORM LEVELS,
WITH MAJOR STORM CONDITIONS EXPERIENCED BETWEEN 10/1500UT AND
10/1800UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE MOSTLY ACTIVE FOR THE NEXT THREE DAYS AS THE
RESULT OF THE EQUATORWARD EXTENSION OF A NORTHERN CORONAL
HOLE.

III. EVENT PROBABILITIES 11 DEC-13 DEC

CLASS M 01/01/01
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 DEC 093
PREDICTED 11 DEC-13 DEC 092/090/090
90 DAY MEAN 10 DEC 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 DEC 004/010
ESTIMATED AFR/AP 10 DEC 014/025
PREDICTED AFR/AP 11 DEC-13 DEC 022/025-018/020-018/020

NNNN

<003>