

HFUS Y BOU 121300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 346A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 12 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
11/1200Z TO 12/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING
THE PAST 24 HOURS. REGION 3487 (NO4W83) PRODUCED THE ONLY
M-CLASS EVENT, A M2/1P AT 12/0333UT, THIS EVENT PRODUCED ONLY
MINOR RADIO BURSTS, 23 FLUX UNITS AT 2695MHZ.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE DURING THE FORECAST PERIOD. IF REGIONS 3492
(N19W51) OR 3496 (N08W51) BEGIN TO RAPIDLY DECAY THEN A LARGE
M-CLASS EVENT COULD OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST:
THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED THIS PERIOD.
A SUDDEN COMMENCEMENT OF 28 GAMMA WAS RECORDED ON THE BOULDER
MAGNETOMETER AT 12/0142UT. NO MAIN PHASE HAS YET BEEN RECORDED.
USING RECURRENCE, ALONG WITH THE EXPECTED ACTIVITY FROM THE
M5/13B EVENT OF 09/1918UT, THE FIELD IS EXPECTED TO BE AT ACTIVE
LEVELS DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 13 DEC-15 DEC

CLASS M 65/60/50

CLASS X 05/05/05

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 DEC 278

ESTIMATED 12 DEC 265

PREDICTED 13 DEC-15 DEC 251/239/231

90 DAY MEAN 11 DEC 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR 10 DEC 006 AFR 11 DEC 005

ESTIMATED AFR 11 DEC 005 AFR/AP 12 DEC 013/014

PREDICTED AFR/AP 13 DEC-15 DEC 018/020-016/020-013/020

SOLTERWARN

BT

HFUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 346F

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 12 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
12/1200Z TO 12/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DUE TO A
LONG-LIVED M2 FLARE AT 12/1704UT WITH NO OPTICAL REPORTS.
SHORT WAVE FADES ACCOMPANIED THIS FLARE. POOR WEATHER AT
SEVERAL OBSERVATORIES PRECLUDED OBSERVATIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN MODERATE DUE TO THE HISTORY AND POTENTIAL IN REGIONS
3492(N19W58) AND 3496(N08W58).

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
BECAME ACTIVE DURING THE 12-15UT PERIOD. UNSETTLED CONDITIONS
ARE EXPECTED FOR THE FOLLOWING THREE DAYS.

III. EVENT PROBABILITIES 13 DEC-15 DEC

CLASS M 65/60/50

CLASS X 05/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 DEC 260

PREDICTED 13 DEC-15 DEC 246/234/222

90 DAY MEAN 12 DEC 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 DEC 004/005

ESTIMATED AFR/AP 12 DEC 019/018

PREDICTED AFR/AP 13 DEC-15 DEC 012/012-012/012-010/010

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HXUS BOU 122200

PREDM 06513 06014 05015

PREDX 00513 00514 00515

PREDP 01013 00514 00515

PCAFT 00113

TENCM 24613 23414 22215

AFRED 01213 01214 01015

AFAPF 01213 01214 01015

BT