

PFUS 1 BOU 011300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 335A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 01 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
30/1200Z TO 01/1200Z: SOLAR ACTIVITY HAS CONTINUED MODERATE
DURING THE PERIOD WITH ALL OF THE M-CLASS XRAY ACTIVITY
OBSERVED WITHIN THE UT DAY OF 01 DEC. AN M2/1B OCCURRED AT
0105Z MAX., AN M1/1N AT 0552Z MAX. AND AN M3/2N AT 0844 MAX.
REGION 3484(N17W16) WAS THE SOURCE OF ALL THREE EVENTS, AND
TOGETHER WITH REGION 3477(S10W01) HAS BEEN THE SOURCE OF NEARLY
ALL ACTIVITY FOR THE PERIOD. REGION 3477 HAS STABILIZED AS AN
EXTENDED F CLASS SPOT GROUP OF MODEST AREA. REGION 3484
CONTINUES TO GROW AT A MUCH REDUCED RATE. WEATHER CONDITIONS
HAVE SHARPLY LIMITED OBSERVATIONS AND THEREFORE ANALYSIS ALSO.
REPORTS IDENTIFY ONE MORE REGION OF POSSIBLE SIGNIFICANCE.
REGION 3487(N06E71) IS NOW AN E CLASS GROUP DUE TO ADDITIONAL
TRAILER SPOTS WHICH HAVE FOLLOWED ONTO THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE MODERATE WITH M-CLASS FLARES POSSIBLE IN ANY OF THE
REGIONS 3477, 3484, AND 3487. BASED ON RATHER LIMITED
INFORMATION, THESE REGIONS APPEAR TO HAVE LOW POTENTIAL FOR
X-CLASS ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN VERY QUIET IN RECENT HOURS. ACTIVITY IS EXPECTED TO
REMAIN AT QUIET LEVELS UNTIL POSSIBLE ACTIVITY FROM RECENT
SOLAR FLARES WILL BRING MAGNETIC LEVELS UP TO UNSETTLED. THESE
LEVELS ARE NOT EXPECTED UNTIL ABOUT 03 DEC.

III. EVENT PROBABILITIES 02 DEC-04 DEC
CLASS M 80/80/80
CLASS X 10/10/10
PROTON 05/05/05
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 30 NOV 238
ESTIMATED 01 DEC 252
PREDICTED 02 DEC-04 DEC 255/256/253
90 DAY MEAN 30 NOV 217

V. GEOMAGNETIC A INDICES
OBSERVED AFR 29 NOV 004 AP 30 NOV 005
ESTIMATED AFR 30 NOV 002 AFR/AP 01 DEC 006/012
PREDICTED AFR/AP 02 DEC-04 DEC 007/012-009/015-011/015

SOLTERWARN
BT

HXUS BCU 011300
PREDM 08002 08003 08004
PREDX 01002 01003 01004
PREDP 00502 00503 00504
PCAFT 00102
TENCN 25502 25603 25304
AFRED 00702 00903 01104
AFAFF 01202 01503 01504
KKK 11122 22222 23322
BT

HFUS 3 BOU 012200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 335B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 01 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
01/1200Z TO 01/2100Z: SOLAR ACTIVITY HAS CONTINUED MODERATE
DURING THE PAST 9 HOURS. REGION 3484 (N16W23), CURRENTLY THE
MOST VIGOROUS REGION ON THE DISK, PRODUCED AN M2/1B FLARE
BEGINNING AT 1654Z. A STRONG 30-MINUTE SHORT-WAVE FADE WAS
OBSERVED TO 15 MHZ BUT NO DISCRETE FREQUENCY RADIO BURSTS WERE
REPORTED WITH THIS EVENT. OTHERWISE, ABOUT 10 SMALL C-CLASS
SUBFLARES WERE REPORTED FROM SEVERAL REGIONS. THE LIMBS ARE
REPORTED QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE MODERATE WITH OCCASIONAL M-CLASS FLARES, PRINCIPALLY
FROM REGION 3484. APPARENTLY, SIGNIFICANT DECAY HAS OCCURRED
IN REGIONS 3477 (S10W08) AND 3478 (N13W60), SO THEY SHOULD
CONTRIBUTE LESS FREQUENTLY TO M-CLASS ACTIVITY, IF AT ALL.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN GENERALLY UNSETTLED SINCE 1200Z. THE FIELD IS EXPECTED TO
BE MILDLY UNSETTLED TO UNSETTLED FOR THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 02 DEC-04 DEC

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 DEC 237

PREDICTED 02 DEC-04 DEC 239/239/236

90 DAY MEAN 01 DEC 217

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 NOV 001/004

ESTIMATED AFR/AP 01 DEC 006/012

PREDICTED AFR/AP 02 DEC-04 DEC 007/012-009/015-011/015

SOLTERWARN

BT

HXUS BOU 012200

PREDM 08002 08003 08004

PREDX 01002 01003 01004

PREDP 00502 00503 00504

PCAFT 00102

TENCM 23902 23903 23604

AFRED 00702 00903 01104

AFAPF 01202 01503 01504

BT