

PFUS 1 BOU 011300  
 FROM SPACE ENVIRONMENT SERVICES CFATF, ECUIPER, 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  
 PRELP 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 ~~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