

HFUS 1 BOU 171300  
FROM SPACE ENVIRONMENT SERVI EST ENTER, BOULDER, COLORADO  
SDF NUMBER 321A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 17 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
16/1200Z TO 17/1200Z: SOLAR ACTIVITY IS LOW. REGIONS 3451  
(N19W79) AND 3454 (S05E32) ARE PRODUCING AN OCCASIONAL  
SUBFLARE. REGION 3451 IS NEARING WEST LIMB PASSAGE AND ACCURATE  
ANALYSIS IS NOT POSSIBLE. REGION 3454 IS STILL SMALL BUT MAY BE  
GROWING. THE ONLY OTHER REGIONS THAT APPEAR CAPABLE OF  
ENERGETIC ACTIVITY ARE 3461 (S04E21) AND 3465 (S14E57). REGION  
3461 IS NOW ONLY A BETA GAMMA MAGNETICALLY BUT IS SHOWING  
OCCASIONAL POINT BRIGHTENINGS AND FLUCTUATIONS. REGION 3465 HAS  
AN ARCH FILAMENT SYSTEM AND WAS GROWING RAPIDLY EARLIER TODAY.  
THE REST OF THE DISK FEATURES ARE SIMPLE AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE LOW. ISOLATED M ACTIVITY IS POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BECOME ACTIVE. THESE ACTIVE CONDITIONS MAY BE THE RESULTS OF  
THE M5/2B FLARE THAT OCCURRED AT 142153Z. ACTIVE CONDITIONS  
SHOULD CONTINUE BECOMING UNSETTLED BY 19 NOV.

III. EVENT PROBABILITIES 18 NOV-20 NOV

CLASS M 50/30/30  
CLASS X 10/05/05  
PROTON 10/05/05  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 NOV 185  
ESTIMATED 17 NOV 175  
PREDICTED 18 NOV-20 NOV 170/165/163  
90 DAY MEAN 16 NOV 229

V. GEOMAGNETIC INDICES

OBSERVED AFR 15 NOV 015 AP 15 NOV 015  
ESTIMATED AFR 15 NOV 015 AFR/AP 17 NOV 013/013  
PREDICTED AFR/AP 18 NOV-20 NOV 013/025-012/015-012/014  
SOLTERWARN

BT

HXUS BOU 171300  
PREDM 05013 03019 03020  
PREDX 01013 00519 00520  
PREDP 01013 00519 00520  
P AFT 00118  
TENCN 17013 16519 16320  
AFRED 01313 01219 01220  
AFAPF 02518 01519 01420  
KKK 33344 33333 33333  
BT

HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 321B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 17 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
17/1200Z TO 17/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW FOR THE  
PAST 9 HOURS. REGION 3465 (S14W64) HAS BEEN AT OR NEAR FLARE  
INTENSITY THROUGHOUT THIS REPORTING PERIOD BUT WITH VERY LITTLE  
X-RAY EMISSION. FOUR NEW REGIONS WERE NUMBERED TODAY. REGION  
3467 (S17W21) IS A D-TYPE GROUP WHICH IS PRODUCING SUBFLARES.  
REGIONS 3468 (N03W06) AND 3470 (N10E53) ARE C-TYPE GROUPS, AND  
REGION 3469 (S19E49) IS A B-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW FOR THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE. ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE INTO  
TOMORROW BUT SHOULD THEN DECLINE TO UNSETTLED AND THEN QUIET  
LEVELS BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 18 NOV-20 NOV

CLASS M 50/30/30

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 NOV 177

PREDICTED 13 NOV-20 NOV 170/165/163

90 DAY MEAN 17 NOV 228

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 15 NOV 016/015

ESTIMATED AFR/AP 17 NOV 024/023

PREDICTED AFR/AP 13 NOV-20 NOV 013/025-012/015-007/014

SOLTERWARN

BT

HXUS BOU 172200

PREDM 05013 03019 03020

PREDX 01013 00519 00520

PREDP 01018 00519 00520

PCAF 00113

TEN M 17013 16519 16320

AFRED 01813 01219 00720

AFAPF 02513 01519 01420

BT