

HFUS 1 BOU 021300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 002A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 02 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION  
3522 (N20W94) PRODUCED AN M8/1B FLARE AT 020601Z. THIS EVENT  
WAS ACCOMPANIED BY A TYPE II SWEEP FREQUENCY BURST AND A 120  
FLUX UNIT BURST AT 2695 MHZ. REGION 3522 IS TOO NEAR THE LIMB  
FOR ACCURATE ANALYSIS BUT ACTIVE SURGING ASSOCIATED WITH ITS  
LIMB PASSAGE INDICATES IT IS STILL DYNAMIC. A SECOND EVENT (AN  
M1) AT 020030Z WAS FROM UNKNOWN SOURCES BUT MOST PROBABLY WAS  
FROM 3522 ALSO. THE OTHER DISK FEATURES ARE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW AS  
REGION 3522 DEPARTS THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED. ACTIVE CONDITIONS ARE EXPECTED ON 3 JAN IN  
RESPONSE TO A FILAMENT DISAPPEARANCE.

III. EVENT PROBABILITIES 03 JAN-05 JAN

CLASS M 15/10/10  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 JAN 186  
ESTIMATED 02 JAN 184  
PREDICTED 03 JAN-05 JAN 184/184/177  
90 DAY MEAN 01 JAN 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 DEC 018 AP 01 JAN 009  
ESTIMATED AFR 01 JAN 009 AFR/AP 02 JAN 007/009  
PREDICTED AFR/AP 03 JAN-05 JAN 015/015-015/015-010/012

SOLTERWARN

BT

HXUS BOU 021300

PREDM 01503 01004 01005

PREDX 00103 00104 00105

PREDP 00103 00104 00105

PCAFT 00103

TENCM 18403 18404 17705

AFRED 01503 01504 01005

AFAPF 01503 01504 01205

KKK 22243 32233 34332

BT

HFUS 3 BOU 022200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 002B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 02 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
02/1200Z TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE  
PAST 9 HOURS. REGION 3531 (N26E05) HAS PRODUCED A FEW  
SUBFLARES INCLUDING A C1/SN FLARE AT 1643 Z WHICH WAS  
ACCOMPANIED BY A DARK SURGE. THREE NEW REGIONS HAVE BEEN  
NUMBERED IN THE SOUTHEAST. THEY ARE 3538 (S15E56), 3539  
(S33E75), AND 3540 (S14E76). REGION 3540 IS AN H-TYPE SPOT  
WHICH IS THE RETURN OF OLD REGION 3504. ALL OF THE 12 SPOTTED  
REGIONS PRESENTLY ON THE VISIBLE DISK APPEAR TO BE MAGNETICALLY  
SIMPLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
LOW WITH ONLY A SLIGHT CHANCE OF SIGNIFICANT ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED FOR THE PAST 9 HOURS. UNSETTLED TO OCCASIONALLY  
ACTIVE CONDITIONS ARE EXPECTED TO PREVAIL THROUGHOUT THE  
FORECAST PERIOD.

III. EVENT PROBABILITIES 03 JAN-05 JAN

CLASS M 15/10/10  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 02 JAN 183  
PREDICTED 03 JAN-05 JAN 180/177/175  
90 DAY MEAN 02 JAN 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 JAN 010/009  
ESTIMATED AFR/AP 02 JAN 009/009  
PREDICTED AFR/AP 03 JAN-05 JAN 015/015-015/015-010/012

SOLTERWARN

BT

HXUS BOU 022200

PREDM 01503 01004 01005  
PREDX 00103 00104 00105  
PREDP 00103 00104 00105  
PCAFT 00103  
TENCM 18003 17704 17505  
AFRED 01503 01504 01005  
AFAPF 01503 01504 01205  
BT