

HFXS 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 ACCCOMPANIED 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 UNSETLED. 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 ACCCOMPANIED 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

PCAFF 00103

TENCM 18003 17704 17505

AFRED 01503 01504 01005

AFAPF 01503 01504 01205

BT