

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