

HFUS 1 BOU 031300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 003A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 03 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
02/1200Z TO 03/1200Z: SOLAR ACTIVITY INCREASED TO THE MODERATE
LEVEL BRIEFLY WITH THE OCCURRENCE OF AN M1/BRIGHT SURGE FROM
DEPARTING REGION 3522 (N20 WEST LIMB). THE X-RAY BURST AND
SURGE BEGAN AT 03/0010Z WITH AN ASSOCIATED WEAK TYPE II RADIO
SWEEP AND AN IMPORTANCE TWO TYPE IV. AT 0639Z AN IMPRESSIVE
SPRAY EXTENDING TO .32 RADII WAS OBSERVED OVER THE NW LIMB.
THIS REGION WHICH IS NOW ABOUT 16 DEGREES PAST WEST LIMB CANNOT
BE ANALYZED, BUT IS OBVIOUSLY UNDERGOING SIGNIFICANT
RESTRUCTURING, AND SHOULD BE WATCHED FOR RETURNING ACTIVITY IN
ABOUT TWELVE DAYS. THE VISIBLE DISK REGIONS ARE BLAND IN
COMPARISON, PRODUCING ONLY MINOR C-CLASS SUBFLARES FROM A
VARIETY OF REGIONS. A NEW AND GROWING REGION AT N08E59 HAS BEEN
NUMBERED 3541. MINOR ACTIVITY HAS BEEN REPORTED HERE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD DECREASE TO
LOW LEVELS. CONTRIBUTION FROM REGION 3522 WILL BECOME LESS
LIKELY AS IT MOVES FURTHER AROUND THE WEST LIMB. THE CURRENT
DISK REGIONS DO NOT POSSESS THE POTENTIAL FOR SIGNIFICANT
ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED TO ACTIVE
CONDITIONS ARE EXPECTED DURING THE NEXT 36 HOURS FOLLOWED BY A
GRADUALLY QUIETING CONDITION.

III. EVENT PROBABILITIES 04 JAN-06 JAN

CLASS M 20/20/20
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JAN 183
ESTIMATED 03 JAN 186
PREDICTED 04 JAN-06 JAN 185/183/180
90 DAY MEAN 02 JAN 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 JAN 010 AP 02 JAN 009
ESTIMATED AFR 02 JAN 009 AFR/AP 03 JAN 015/015
PREDICTED AFR/AP 04 JAN-06 JAN 015/015-010/012-012/014

SOLTERWARN

BT

HXUS BOU 031300

PREDM 02004 02005 02006
PREDX 00104 00105 00106
PREDP 00104 00105 00106
PCAFT 00104
TENCM 18504 18305 18006
AFRED 01504 01005 01206
AFAPF 01504 01205 01406
KKK 33343 32233 33322

BT

3411

HFUS 3 BOU 032200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 003B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 03 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
03/1200Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9
HOURS. SUBFLARES HAVE ALTERNATED BETWEEN REGIONS 3539 (S36E60)
AND 3537 (N10E07). REGION 3537, WHICH WAS SPOTLESS YESTERDAY,
HAS GROWN VERY RAPIDLY TO A D-TYPE GROUP OF BETA- GAMMA
MAGNETIC COMPLEXITY. ADDITIONAL SPOTS APPEAR TO BE DEVELOPING
BETWEEN 3537 AND 3534 (N10E17) AND SOME INTERACTION MAY BE
OCCURRING. REGION 3531 (N26W10) HAS GROWN TO AN E-TYPE GROUP AND
HAS DEVELOPED BETA-GAMMA MAGNETIC COMPLEXITY. NEW REGION 3541
(N08E49) IS A SMALL B-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW FOR THE NEXT THREE DAYS UNLESS CONTINUING DEVELOPMENT IN
REGIONS 3537/3534 FORCES REEVALUATION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE DURING THIS REPORTING INTERVAL. UNSETTLED TO ACTIVE
CONDITIONS ARE EXPECTED THROUGH TOMORROW FOLLOWED BY MOSTLY
UNSETTLED GEOMAGNETIC LEVELS FOR THE REMAINDER OF THE FORECAST
PERIOD.

III. EVENT PROBABILITIES 04 JAN-06 JAN
CLASS M 20/20/20
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 03 JAN 182
PREDICTED 04 JAN-06 JAN 185/183/180
90 DAY MEAN 03 JAN 213

V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 02 JAN 007/009
ESTIMATED AFR/AP 03 JAN 016/017
PREDICTED AFR/AP 04 JAN-06 JAN 015/015-010/012-012/014
SOLTERWARN
BT

HXUS BOU 032200
PREDM 02004 02005 02006
PREDX 00104 00105 00106
PREDP 00104 00105 00106
PCAFT 00104
TENCM 18504 18305 18006
AFRED 01504 01005 01206
AFAPF 01504 01205 01406
BT