

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 UNSETLED DURING THE PAST 24 HOURS. UNSETLED 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*

HFXS 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

PCAF 00104

TENCM 18504 18305 18006

AFRED 01504 01005 01206

AFAPF 01504 01205 01406

BT