

HFUS 1 BOU 241300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 024A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 24 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
23/1200Z TO 24/1200Z: SOLAR ACTIVITY WAS AT MODERATE LEVELS THIS
PERIOD WITH ONE M-CLASS EVENT. THIS EVENT, AT LEVEL M2,
APPARENTLY CAME FROM A REGION (OLD REGION 3537?) STILL BEHIND
THE NORTHEAST LIMB. LOOPS WERE OBSERVED AT N09 FOR MORE THAN
AN HOUR FOLLOWING THE XRAY MAX. ALL SEVEN SPOTTED REGIONS ON
THE DISK HAVE BEEN QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
AT MODERATE LEVELS. SINCE THE REGION AT THE NORTHEAST LIMB IS
STILL HIDDEN FROM VIEW, IT IS DIFFICULT TO ACCESS ITS MAJOR
FLARE POTENTIAL AT THIS TIME. IN ANY CASE, ALL SOLAR INDICES
ARE FORECAST TO INCREASE FOR THE NEXT SEVERAL DAYS AS A BAND OF
ACTIVE SOLAR LONGITUDES ROTATES ONTO THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
STILL AT ACTIVE LEVELS TODAY AND APPEARS TO BE TAKING ITS TIME
IN SETTling DOWN FROM THE CORONAL HOLE-RELATED ACTIVITY WHICH
BEGAN ON 22 JAN. UNSETTLED LEVELS ARE FORECAST FOR THE NEXT 72
HOURS.

III. EVENT PROBABILITIES 25 JAN-27 JAN

CLASS M 50/65/65
CLASS X 05/05/05
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	23 JAN	153
ESTIMATED	24 JAN	148
PREDICTED	25 JAN-27 JAN	148/153/160
90 DAY MEAN	23 JAN	195

V. GEOMAGNETIC A INDICES

OBSERVED AFR	22 JAN	020	AP 23 JAN	018
ESTIMATED AFR	23 JAN	017	AFR/AP 24 JAN	015/015
PREDICTED AFR/AP	25 JAN-27 JAN	010/015-008/012-008/010		

SOLTERWARN

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HXUS BOU 241300

PREDM 05025 06526 06527
PREDX 00525 00526 00527
PREDP 00125 00126 00127
PCAFT 00125

TENCM 14825 15326 16027
AFRED 01025 00826 00827
AFAPF 01525 01226 01027
KKK 33222 33222 32222

BT

HFUS 3 BOU 242200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 024B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 24 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DUE TO A
LONG-LIVED M6/1B/LPS FROM NEW REGION 3573 (N09E90). THE X-RAY
MAXIMUM WAS 24/2003UT. AT PRESS TIME NO RADIO BURSTS HAD BEEN
REPORTED WITH THIS EVENT. THIS REGION IS ABOUT THREE WEEKS OLD
WHICH IN MANY CASES IS PEAK DEVELOPMENT FOR RAPIDLY GROWING
REGIONS. IN CALCIUM LIGHT, 3573 SHOWS ABOUT SIX DEGREES OF
LATITUDINAL EXTENT. SUBFLARES HAVE BEEN OBSERVED FROM REGION
3557 (N04W32) WHERE SOME MAGNETIC FLUX MAY BE EMERGING. FOUR
SMALL REGIONS HAVE BEEN NUMBERED TODAY - 3572 (N22E37), 3571
(S07W13), 3574 (N20E65), AND 3575 (N11E76).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN
MODERATE DUE TO THE APPARENT FLARE POTENTIAL OF REGION 3573.
CLASS X FLARES ARE A POSSIBILITY FROM THIS REGION. PREVIOUSLY
ACTIVE LONGITUDES ARE EXPECTED TO BEGIN RETURNING TO THE EAST
LIMB NEAR THE END OF THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO SLIGHTLY ACTIVE DURING THE PERIOD. THE M6
FLARE IS NOT EXPECTED TO CAUSE A SIGNIFICANT GEOMAGNETIC
DISTURBANCE. UNSETTLED CONDITIONS ARE FORECAST FOR THE NEXT
THREE DAYS. SHOULD REGION 3573 CONTINUE TO PRODUCE SIGNIFICANT
FLARE ACTIVITY, FLARE RELATED DISTURBANCES COULD BEGIN NEAR 29
JANUARY.

III. EVENT PROBABILITIES 25 JAN-27 JAN
CLASS M 80/90/90
CLASS X 10/15/15
PROTON 05/10/10
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 24 JAN 154
PREDICTED 25 JAN-27 JAN 165/175/180
90 DAY MEAN 24 JAN 195

V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 23 JAN 017/018
ESTIMATED AFR/AP 24 JAN 016/015
PREDICTED AFR/AP 25 JAN-27 JAN 010/015-010/012-010/010

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HXUS BOU 242200
PREDM 08025 09026 09027
PREDX 01025 01526 01527
PREDP 00525 01026 01027
PCAFT 00125
TENCM 16525 17526 18027
AFRED 01025 01026 01027
AFAPF 01525 01226 01027
BT