

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 026A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 26 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 26/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS
PERIOD. THE LARGEST EVENT WAS A C5/SN AT 26/0208UT FROM REGION
3557 (N03W55) THIS REGION HAS A STRONG ARCH FILAMENT SYSTEM AND
HAS EXHIBITED GROWTH AND SOME INCREASE IN MAGNETIC COMPLEXITY.
REGION 3572 (N20E16) ALSO IS GROWING AND CONTAINS AN ARCH
FILAMENT SYSTEM. REGION 3573 (N11E65) HAS BEEN GENERALLY STABLE
THIS PERIOD. NEW REGION 3576 (S13E75) HAS PRODUCED SEVERAL
SMALL C-CLASS EVENTS AND PLAGE FLUCTUATIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
AT OR NEAR MODERATE LEVELS DURING THIS FORECAST PERIOD. REGIONS
3557 AND 3573 APPEAR TO HAVE THE BEST POTENTIAL FOR M-CLASS
ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO QUIET THIS PERIOD. THE GEOMAGNETIC FIELD IS
EXPECTED TO REMAIN QUIET TO SLIGHTLY UNSETTLED UNTIL NEAR THE
END OF THIS FORECAST, WHEN THE FIELD IS EXPECTED TO BE NEAR
ACTIVE LEVELS.

III. EVENT PROBABILITIES 27 JAN-29 JAN

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JAN 177

ESTIMATED 26 JAN 187

PREDICTED 27 JAN-29 JAN 194/196/194

90 DAY MEAN 25 JAN 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 JAN 018 AP 25 JAN 007

ESTIMATED AFR 25 JAN 007 AFR/AP 26 JAN 005/006

PREDICTED AFR/AP 27 JAN-29 JAN 008/010-008/010-012/012

SOLTERWARN

BT

HXUS BOU 261300

PREDM 06027 06028 06029

PREDX 00527 00528 00529

PREDP 00527 00528 00529

PCAFT 00127

TENCM 19427 19628 19429

AFRED 00827 00828 01229

AFAPF 01027 01028 01229

KKK 12132 22222 23222

BT

HXUS BOU 262200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 026B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 26 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD.
ONLY OCCASIONAL LOW LEVEL CLASS C X-RAY BURSTS HAVE OCCURRED.
ALL DISK REGIONS CURRENTLY ARE SIMPLE IN MAGNETIC STRUCTURE,
WITH REGION 3573 (N11E57) HAVING LOST ITS DELTA CONFIGURATION.
REGIONS 3576 (S13E72), 3577 (S12E30), AND 3578 (S08E59) HAVE
BEEN ADDED TODAY. SURGING IS REPORTED AT THE EAST LIMB NEAR
THE LATITUDES OF REGIONS 3573 AND 3576.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. THE FIELD IS EXPECTED TO REMAIN QUIET TO SLIGHTLY
UNSETTLED UNTIL NEAR THE END OF THE FORECAST PERIOD, WHEN THE
FIELD IS EXPECTED TO BE NEAR ACTIVE LEVELS.

III. EVENT PROBABILITIES 27 JAN-29 JAN

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 JAN 192

PREDICTED 27 JAN-29 JAN 202/210/210

90 DAY MEAN 26 JAN 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 JAN 008/007

ESTIMATED AFR/AP 26 JAN 005/006

PREDICTED AFR/AP 27 JAN-29 JAN 008/010-008/010-012/012

SOLTERWARN

BT

HXUS BOU 262200

PREDM 06027 06028 06029

PREDX 00527 00528 00529

PREDP 00527 00528 00529

PCAFT 00127

TENCM 20227 21028 21029

AFRED 00827 00828 01229

AFAPF 01027 01028 01229

BT