

HFUS 1 BOU 261300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 026A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 26 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 26/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING
THIS PERIOD. REGION 4073 (N05E27) PRODUCED SEVERAL SMALL FLARES
THIS PERIOD THE LARGEST A SF/C1 AT 26/0210UT. REGIONS 4072
(S07E22) AND 4074 (S16E70) ALSO PRODUCED SMALL OPTICAL EVENTS.
REGION 4073 IS NOW A D TYPE GROUP HOWEVER GROWTH IS REPORTED TO
HAVE SLOWED ALTHOUGH A WEAK ARCH FILAMENT SYSTEM REMAINS IN
PROGRESS. THE REST OF THE REGIONS ARE REPORTED AS STABLE OR
SLIGHTLY DECAYED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE LOW DURING THE FORECAST PERIOD. OLD ACTIVE REGIONS,
DUE TO RETURN DURING THIS FORECAST PERIOD, WERE SMALL AND
PRODUCED ONLY MINOR EVENTS LAST ROTATION. GROWTH IN THE CURRENT
DISK REGIONS MAY INCREASE THE PRODUCTION OF FLARES HOWEVER THE
EVENTS ARE EXPECTED TO BE BELOW M CLASS LEVELS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN GENERALLY ACTIVE THIS PERIOD. THE LARGE POSTIVE CORONAL
HOLE NOW AT N25W07 IS NOT EXPECTED TO PRODUCE ANY GEOMAGNETIC
EFFECTS. DUE TO THE ABSENCE OF LARGE FLARES AND/OR FILAMENTS
WHICH HAVE DISAPPEARED DURING THE PAST FOUR DAYS THE FIELD IS
EXPECTED TO BE UNSETTLED TO NEAR QUIET DURING THIS FORECAST
PERIOD.

III. EVENT PROBABILITIES 27 JAN-29 JAN

CLASS M 10/10/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JAN 127
ESTIMATED 26 JAN 135
PREDICTED 27 JAN-29 JAN 138/142/134
90 DAY MEAN 25 JAN 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 JAN 020 AP 25 JAN 017
ESTIMATED AFR 25 JAN 014 AFR/AP 26 JAN 012/015
PREDICTED AFR/AP 27 JAN-29 JAN 008/015-008/010-010/010

SOLTERWARN

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HFUS 3 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 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION
4074(S16E63) HAS BEEN THE MAIN SOURCE OF ACTIVITY BUT HAS
PRODUCED ONLY C1/SF FLARES. REGIONS 4072(S07E16) AND
4073(N05E21) CONTINUE TO GROW AND BOTH HAVE SHOWN AFS IN RECENT
HOURS. NEW REGION 4075(S13E77) APPEARED OVER THE EAST LIMB
TODAY SHOWING A SINGLE SPOT SO FAR.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE LOW. SOME INCREASE IN THE FREQUENCY OF ACTIVITY MAY
BE EXPECTED SINCE MORE REGIONS APPEAR CAPABLE OF ACTIVITY. NO
REGION APPEARS CAPABLE OF M LEVEL ACTIVITY AT PRESENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED WITH MIDLATITUDE K-INDICES OF 3 OBSERVED FOR THE
PERIOD. GEOMAGNETIC ACTIVITY SHOULD CONTINUE UNSETTLED WITH A
TREND TOWARD QUIET EXPECTED.

III. EVENT PROBABILITIES 27 JAN-29 JAN

CLASS M	10/10/10
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	26 JAN	148
PREDICTED	27 JAN-29 JAN	158/163/168
90 DAY MEAN	26 JAN	171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	25 JAN	014/017
ESTIMATED AFR/AP	26 JAN	014/015
PREDICTED AFR/AP	27 JAN-29 JAN	008/015-008/015-010/010

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