

HFUS 1 BOU 281300Z

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 301A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 28 OCTOBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING
THE PAST 24 HOURS. REGION 3416 (S05W60) HAS BEEN REPORTED
GROWING RAPIDLY AND CONTAINS STRONG ARCH FILAMENTS INDICATIVE
OF NEW EMERGING FIELDS. THE REGION HAS PRODUCED A C7/SB AT
27/1734Z AND A C9/1B AT 28/0353Z. OTHER REGIONS HAVE BEEN
STABLE OR HAVE SHOWN ONLY SLIGHT GROWTH. THE LIMBS ARE
CURRENTLY QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE GENERALLY LOW. REGION 3416 GROWTH IS EXPECTED TO
SLOW SOON. THE REGION MAY PRODUCE AN ISOLATED SMALL M-CLASS
FLARE BEFORE IT STABILIZES. OTHER DISK REGIONS DO NOT APPEAR
TO HAVE M-CLASS FLARE POTENTIAL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
HAS BEEN GENERALLY UNSETTLED FOR THE PAST 24 HOURS. A MINOR
DISTURBANCE IS POSSIBLE DURING THE NEXT 48 HOURS DUE TO A
WELL DEFINED NORTHERN HEMISPHERE CORONAL HOLE.

III. EVENT PROBABILITIES: 29 - 31 OCTOBER 1981

CLASS M 25/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 27 OCT 174

ESTIMATED 28 OCT 176

PREDICTED 29-31 OCT 173/168/170

90 DAY MEAN 27 OCT 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 OCT 10 AP 27 OCT 08

ESTIMATED AFR 27 OCT 13 AFR/AP 28 OCT 12/14

PREDICTED AFR/AP 29/31 OCT 15/18 17/20 12/12

SOLTERWARN

BT

HFUS 3 BOU 282200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 301B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 28 OCT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
28/1200Z TO 28/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THIS
PERIOD WITH NO OPTICAL REPORTS DUE TO POOR WEATHER AND ONLY ONE
C6 X-RAY EVENT AT 28/2056 UT. GROWTH HAS BEEN OBSERVED IN
REGIONS 3416(S04W68) AND 3424(N15E20), BUT NONE OF THE REGIONS
CURRENTLY ON THE DISK APPEAR ACTIVE. IB. SOLAR ACTIVITY
FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR THE NEXT
THREE DAYS. IF GROWTH CONTINUES IN REGION 3416 AT ITS CURRENT
RATE, AN ISOLATED M-CLASS EVENT COULD BECOME PROBABLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED FOR THE PAST 24 HOURS, BUT IS EXPECTED TO BECOME
ACTIVE ON 29-30 OCT. UNSETTLED CONDITIONS ARE EXPECTED TO
RETURN ON 31 OCT.

III. EVENT PROBABILITIES 29 OCT-31 OCT

CLASS M 25/20/20
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 OCT 185
PREDICTED 29 OCT-31 OCT 182/177/179
90 DAY MEAN 28 OCT 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 OCT 009/003
ESTIMATED AFR/AP 28 OCT 012/014
PREDICTED AFR/AP 29 OCT-31 OCT 015/018-017/020-012/012

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HXUS BOU 282200

PREDM 02529 02030 02031

PREDX 00129 00130 00131

PREDP 00129 00130 00131

PCAF 00129

TENCM 18229 17730 17931

AFRED 01529 01730 01231

AFAPF 01829 02030 01231

BT