

ABOU

HFUS 1 BOU 171300Z

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 017A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 17 JANUARY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
16/1200Z TO 17/1200Z:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE
FEW771)-43 #-;3 733, 3 5#-, :3 IN X-RAY INTENSITY.

NEARLY ALL HAVE OCCURRED IN REGION 3549 (S10W08) WHICH
CONTINUES A SLOW EVOLUTION TOWARD A MORE COMPLEX FORM.
AN ISOLATED POLE NOW EXISTS IN THE CENTER OF THE REGION.
ITS SUNSPOTS ARE RELATIVELY SMALL BUT NUMEROUS AND HAVE
AN UNUSUAL CONFIGURATION. MINOR GROWTH HAS BEEN REPORTED
IN REGION 3550 (N02W20) AND REGION 3553 (S08W31) AND RAPID
DEVELOPMENT IN A SMALL YOUNG REGION 3556 (N06E38). EXTENSIVE
FAINT FLARE HAS APPEARED AT EAST LIMB INCLUDING AN AREA
NEAR THE EXPECTED RETURN OF REGION 3522 AT NE LIMB.

IB. SOLAR ACTIVITY FORECAST:

A GENERAL TREND OF GROWTH IN REGIONS OVER THE ENTIRE SOLAR
DISK INDICATES THAT ACTIVITY SHOULD GRADUALLY INCREASE
DURING THIS PERIOD. REGION 3549 HAS THE STRUCTURE TO PRO-
DUCE CLASS M EVENTS IF GROWTH CONTINUES.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN HIGHLY UNSETTLED FOR THE
PAST 24 HOURS. SIMILAR CONDITIONS ARE EXPECTED FOR AN-
OTHER 24 HOURS BEFORE A RETURN TO QUIET CONDITIONS.

III. EVENT PROBABILITIES: 18-20 JANUARY

CLASS M 35/40/50

CLASS X 01/01/05

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 16 JAN 152

ESTIMATED 17 JAN 160

PREDICTED 18-20 JAN 165/170/175

90 DAY MEAN 16 JAN 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 JAN 015 AP 16 JAN 16

ESTIMATED AFR 16 JAN 015 AFR/AP 17 JAN 15/12

PREDICTED AFR/AP 18-20 JAN 15/15 10/10 06/08

SOLTERWARN

BT

HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 017B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 17 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
17/1200Z TO 17/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
PAST 9 HOURS. REGIONS 3549 (S10W14), 3550 (N02W28) AND 3553
(S08W39) HAVE EACH PRODUCED SEVERAL SMALL C-CLASS SUBFLARES.
OTHER DISK REGIONS AND THE LIMBS HAVE BEEN REASONABLY QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE ESSENTIALLY LOW BUT WITH A GRADUAL INCREASE IN THE
FREQUENCY AND INTENSITY OF FLARES AS THE REGIONS ON THE DISK
GROW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO QUIET FOR THE PAST 9 HOURS. THE FIELD IS
EXPECTED TO BE UNSETTLED, TRENDING TOWARD QUIET, OVER THE NEXT
72 HOURS.

III. EVENT PROBABILITIES 18 JAN-20 JAN

CLASS M 35/40/50

CLASS X 01/01/05

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JAN 158

PREDICTED 18 JAN-20 JAN 165/170/175

90 DAY MEAN 17 JAN 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 JAN 014/016

ESTIMATED AFR/AP 17 JAN 012/015

PREDICTED AFR/AP 18 JAN-20 JAN 012/015-010/010-006/008

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HXUS BOU 172200

PREDM 03518 04019 05020

PREDX 00118 00119 00520

PREDP 00118 00119 00520

PCAFT 00118

TENCM 16518 17019 17520

AFRED 01218 01019 00620

AFAPF 01518 01019 00820

BT