

PFUS 1 BOU 281300

FPCM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 332A

JCINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 28 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST
24 HOURS. THE LARGEST EVENT WAS A C5/1B FLARE FROM 3478

(N10W12) WHICH MAXED AT 0950 Z. THIS REGION IS CONTINUING TO
GROW AND CONTAINS A STRONG ARCH FILAMENT SYSTEM ALTHOUGH IT
REMAINS RATHER SIMPLE MAGNETICALLY. REGION 3477 (S08E37) HAS
PRODUCED ONLY SUBFLARES SINCE ITS M1/1B FLARE ON 26 NOV., BUT
IT IS DEVELOPING INTO A VERY INTERESTING GROUP. THE REGION IS
MAGNETICALLY COMPLEX AND NEW SPOTS, A SEPARATE BUT INTERACTING
BIPOLAR GROUP, HAVE

EMERGED JUST SOUTHEAST OF THE PRIMARY REGION. BECAUSE OF ITS
PROXIMITY TO 3477, THIS NEW D-TYPE GROUP IS BEING CONSIDERED AS
PART OF REGION 3477. REGION 3480 (S21W05) IS CONTINUING TO
DEVELOP AND MAY BECOME ERUPTIVE SOON.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE. REGIONS 3477 AND 3478 ARE CAPABLE OF M-CLASS FLARES
AND DRAMATIC DEVELOPMENT IN REGION 3477 INDICATES AN INCREASING
PROBABILITY OF A MAJOR FLARE FROM THIS COMPOUND GROUP.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET FOR THE PAST 24 HOURS. GEOMAGNETIC CONDITIONS ARE
EXPECTED TO BECOME UNSETTLED ON 29, 30 NOV OWING TO FLARES
OBSERVED ON 26 NOV. NEAR-QUIET CONDITIONS SHOULD RETURN
THEREAFTER UNLESS MAJOR FLARE ACTIVITY FORCES REEVALUATION.

III. EVENT PROBABILITIES 29 NOV-01 DEC

CLASS M 50/60/70

CLASS X 10/15/20

PROTON 01/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 NOV 196

ESTIMATED 28 NOV 207

PREDICTED 29 NOV-01 DEC 215/220/225

90 DAY MEAN 27 NOV 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 NOV 009 AP 27 NOV 005

ESTIMATED AFR 27 NOV 008 AFR/AP 28 NOV 005/010

PREDICTED AFR/AP 29 NOV-01 DEC 012/010-014/012-008/012

SOLTERWARN

BT

HXUS BOU 281300

FREDM 05029 06030 07001

PREDX 01029 01530 02001

FREDI 00129 00530 01001

PCAFT 00129

TENCM 21529 22030 22501

AFRED 01229 01430 00801

AFAPF 01029 01230 01201

KKK 12233 32223 34333

BT

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 332B

JOINT USAF/NCAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
28/1200Z TO 28/2100Z:

SOLAR ACTIVITY CONTINUED AT A LOW LEVEL THIS PERIOD. REGION
3478 (N12W19) PRODUCED THE ONLY EVENT THIS PERIOD, A C2/SN AT
1506UT. THE COMPLEX REGION 3477 (S09E30) CONTINUES TO EXHIBIT
GROWTH AND IS A E-TYPE GROUP, THE BIPOLAR GROUP JUST SE OF THE
MAIN PORTION THE REGION HAS SHOWN RAPID GROWTH THIS PERIOD
AND IS CONSIDERED TO BE PART OF 3477. NEW REGIONS TO DAY ARE
3483 (N05W13) SIMPLE B-TYPE GROUP, AND 3484 (N15E17) ALSO A
B-TYPE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE NEAR OR AT MODERATE LEVELS
DURING THE FORECAST PERIOD. REGIONS 3477 AND 3478 CONTINUE TO
DEVELOP AND APPEAR CAPABLE OF M-CLASS EVENTS WITH AN ISOLATED
X-CLASS EVENT POSSIBLE NEAR THE END OF THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET THIS PERIOD. THE FIELD IS
EXPECTED TO BE UNSETTLED 29-30 NOV WITH QUIET CONDITIONS ON 01
DEC.

III. EVENT PROBABILITIES 29 NOV-01 DEC

CLASS M 50/60/70

CLASS X 10/15/20

FRCTN 01/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 NOV 214

PREDICTED 29 NOV-01 DEC 220/225/230

90 DAY MEAN 28 NOV 217

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 NOV 003/005

ESTIMATED AFR/AP 28 NOV 005/006

PREDICTED AFR/AP 29 NOV-01 DEC 012/010-014/012-008/012

SOLTERWARN

BT

HXUS BOU 282200

FREDM 05029 06030 07001

FREDX 01029 01530 02001

FREDP 00129 00530 01001

PCAFT 00129

TENCM 22029 22530 23001

AFRED 01229 01430 00801