

FFUS 1 BOU 281300

FFCM 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 ECLIPSE 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 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

SOITERWARN

BT

HXUS BOU 281300

FREDM 05029 06030 07001

PREDX 01029 01530 02001

FREDF 00129 00530 01001

PCAFI 00129

TENCM 21529 22030 22501

AFRED 01229 01430 00801

AFAPF 01029 01230 01201

KKK 12233 32223 34333

BT

HXUS 3 BOU 282200
FROM SPACE ENVIRONMEN T 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 BIPOLE 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 UNSETLED 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

PROTON 01/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

CBSEVED 28 NOV 214

PREDICTED 29 NOV-01 DEC 220/225/230

90 DAY MEAN 28 NOV 217

V. GEOMAGNETIC INDICES

CBSEVED 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
PREDM 05029 06030 07001
PREDX 01029 01530 02001
PREDP 00129 00530 01001
PCAFT 00129
TENCM 22029 22530 23001
AFRED 01229 01430 00801