

HFUS 1 BOU 291300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SLF NUMBER 333A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 29 NOV 1981

IA. ANALYSIS OF SCLAR ACTIVE REGIONS AND ACTIVITY FROM
28/1200Z TO 29/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST
EVENT WAS A C4/1B TENFLARE (310 FLUX UNITS AT 2695 MHZ) FROM
3477 (S11E24) WHICH MAXED AT 0921Z. HOWEVER, WHILE THEY HAVE
NOT PRODUCED A PARTICULARLY ENERGETIC EVENT, BOTH 3477 AND
3478 (N13W24) ARE SHOWING GOOD PROMISE. REGION 3478 IS
CONTINUING RAPID GROWTH AND IS EXHIBITING A STRONG ARCH
FILAMENT SYSTEM IN THE CENTRAL PORTION OF THE REGION. REGION
3477 IS RESTRUCTURING AROUND THE LARGE ASYMMETRIC LEADER SPOT
WHICH NOW CONTAINS A DELTA MAGNETIC CONFIGURATION. CULGOORA
REPORTS THAT THIS FLUCTUATING REGION HAS BEEN THE SOURCE OF A
TYPE I RADIO STORM. GROWING REGION 3480 (S21W19) HAS BEGUN TO
PRODUCE C-CLASS XRAY SUBFLARES AND IS EXPECTED TO CONTINUE THIS
BEHAVIOR. SURGING AT SEVERAL LOCATIONS ON THE EAST LIMB
PORTENDS THE RETURN OF REGIONS WHICH WERE QUITE ACTIVE LAST
ROTATION. AN H-TYPE SPOT HAS BEEN SEEN AT N19E82.

IB. SCLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE. REGIONS 3477 AND 3478 COULD BOTH CONTRIBUTE
ENERGETIC EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. UNSETTLED CONDITIONS ARE STILL POSSIBLE THROUGH
TOMORROW BUT QUIET CONDITIONS SHOULD PREVAIL THEREAFTER.

III. EVENT PROBABILITIES 30 NOV-02 DEC

CLASS M 60/70/80

CLASS X 15/20/20

PROTCN 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 NOV 214

ESTIMATED 29 NOV 225

PREDICTED 30 NOV-02 DEC 230/235/240

90 DAY MEAN 28 NOV 217

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 NOV 003 AP 28 NOV 005

ESTIMATED AFR 28 NOV 005 AFR/AP 29 NOV 005/010

PREDICTED AFR/AP 30 NOV-02 DEC 012/012-008/012-007/015

SOLTERWARN

BT

HXUS BOU 291300

FREDM 06030 07001 08002

FREDX 01530 02001 02002

FREDP 00530 01001 01502

PCAFT 00130

TENCM 23030 23501 24002

AFRED 01230 00801 00702

AFAPF 01230 01201 01502

KKK 22233 32223 33222

BT

HFUS 3 BOU 292200
FRM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 333B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 29 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
29/1200Z TO 29/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING
THIS PERIOD. A M2/BRIGHT SURGE ON LIMB, NE07, WAS RECORDED AT
1645UT. THIS EVENT PRODUCED NO SIGNIFICANT RADIO, HOWEVER LOOPS
ARE BEING REPORTED IN PROGRESS AT NE07. THIS EVENT MAY BE FROM
NEW REGION 3485 (N19E75) OR AN OTHER REGION YET TO BE SEEN.
REGION 3477 (S11E19) PRODUCED A C9/SB EVENT AT 1931UT, THIS
REGION IS CONTINUING TO GROW. REGION 3478 (N13W31) IS LITTLE
CHANGED OR EXHIBITING SLIGHT DECAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE AT MODERATE LEVELS. AN ISOLATED X-CLASS EVENT IS
POSSIBLE AS THE ACTIVE REGION JUST BEYOND THE EAST LIMB ROTATES
INTO VIEW. REGION 3477 IS EXPECTED TO PRODUCE M-CLASS ACTIVITY
WITH THE CHANCE OF AN X-CLASS EVENT IF DEVELOPMENT CONTINUES.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. UNSETTLED CONDITIONS ARE STILL POSSIBLE FOR 30 NOV
THEN QUIET TO SLIGHTLY UNSETTLED CONDITIONS SHOULD PREVAIL FOR
THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 30 NOV-02 DEC

CLASS M 60/70/80
CLASS X 15/20/20
PROTCN 05/10/15
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 29 NOV 226
PREDICTED 30 NOV-02 DEC 235/240/245
90 DAY MEAN 29 NOV 217

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 NOV 005/005
ESTIMATED AFR/AP 29 NOV 005/006
PREDICTED AFR/AP 30 NOV-02 DEC 012/012-008/012-007/015
SOLTERWARN

BT

HXUS BCU 292200
FREDM 06030 07001 08002
PREDX 01530 02001 02002
FREDF 00530 01001 01502
PCAFT 00130
TENCN 23530 24001 24502
AFREC 01230 00801 00702
AFAPF 01230 01201 01502
BT