

HFXS 1 BOU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SIF NUMBER 333A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 29 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 29/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT WAS A C4/1B XENFLARE (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 FORTENIS THE RETURN OF REGIONS WHICH WERE QUITE ACTIVE LAST ROTATION. AN H-TYPE SPOT HAS BEEN SEEN AT N19E82.

IB. SOLAR 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. UNSETLED 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

FROTCN 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

PT

HFXS BOU 291300

FREDM 06030 07001 08002

FREDX 01530 02001 02002

FREDP 00530 01001 01502

PCAF 00130

TENCM 23030 23501 24002

AFRED 01230 00801 00702

AFAPP 01230 01201 01502

KKK 22233 32223 33222

BT

HFUS 3 BOU 292200

FRCM 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 SCALAR 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: SCALAR 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

FROTCN 05/10/15

FCAF 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 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

SOLARWARN

FT

HXUS ECU 292200

FREDM 06030 07001 08002

PREDX 01530 02001 02002

FREDF 00530 01001 01502

PCAFT 00130

TENCM 23530 24001 24502

AFREI 01230 00801 00702

AFAPP 01230 01201 01502

BT