

EFUS 1 BOU 261300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 330A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 26 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 26/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST
24 HOURS. THE PRIMARY REGION OF INTEREST WAS 3477(S09E55)
WHICH PRODUCED SEVERAL C-CLASS FLARES. THIS IS THE THIRD DISK
TRANSIT OF AN ACTIVE CENTER WHICH HAS CONSISTENTLY PRODUCED
M-CLASS FLARES. SURGING HAS BEEN OBSERVED ON THE EAST LIMB
BEHIND THIS LARGE BUT AS YET MAGNETICALLY SIMPLE REGION.
REGION 3478 (N13E17) PRODUCED A C5/1N FLARE 25 NOV AT 2328 UT
MAXIMUM. THIS REGION IS GROWING AND CONTAINS A BROAD EMBEDDED
ARCH FILAMENT SYSTEM. THERE IS OPPORTUNITY FOR INTERACTION
BETWEEN 3478 AND 3475 (N07E17) AND 3474 (N16E09). IN ADDITION,
A NEW REGION MAY BE EMERGING SOUTH OF 3475 AT S03E18. SURGING
IS MARKING THE WEST LIMB TRANSIT OF 3471 (N13W78).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW WITH THE POSSIBILITY OF ISOLATED M CLASS FLARE ACTIVITY
FROM REGION 3477.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN MOSTLY UNSETTLED FOR THE PAST 24 HOURS. UNSETTLED TO
OCCASIONALLY ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE
THROUGH TOMORROW BUT SHOULD TREND TOWARD QUIET LEVELS BY THE
THIRD DAY.

III. EVENT PROBABILITIES 27 NOV-29 NOV

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 NOV 163

ESTIMATED 26 NOV 172

PREDICTED 27 NOV-29 NOV 179/185/190

90 DAY MEAN 25 NOV 219

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 NOV 006 AP 25 NOV 018

ESTIMATED AFR 25 NOV 019 AFR/AP 26 NOV 013/012

PREDICTED AFR/AP 27 NOV-29 NOV 015/012-012/010-007/010

SOLTERWARN

BT

HXUS BCU 261300

FREDM 03027 03028 03029

FREDX 00127 00128 00129

FREDF 00127 00128 00129

PCAFT 00127

TENCM 17927 18528 19029

AFRED 01527 01228 00729

AFAFF 01227 01028 01029

KKK 32343 33223 33332

BT

HFUS 3 BOU 262200
FRM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 330B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 26 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200Z TO 26/2100Z: SOLAR ACTIVITY HAS INCREASED TO MODERATE
LEVELS WITH TWO CLASS M FLARES. REGION 3478 (N12E10) GAVE AN
M2/2B FLARE AT 1621Z; REGION 3477 (S10E56) THEN FOLLOWED WITH
AN M1/1B EVENT AT 1946Z.

REGION 3478 SHOWED VERY RAPID GROWTH DURING THIS PERIOD IN BOTH
WHITE LIGHT AND H-ALPHA, AND REGION 3477 HAS MAINTAINED ITS
LARGE AREA (OVER 600 MILLIONTHS) AND SHOWN MORE ACTIVITY THAN
YESTERDAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE. REGIONS 3477 AND 3478 WERE BOTH SOMEWHAT
QUIETER FOLLOWING THEIR M CLASS EVENTS. THEY STILL POSSESS THE
POTENTIAL FOR PRODUCING ONE OR TWO M CLASS EVENTS PER DAY. THE
OTTAWA 10 CM DRIFT SCAN INDICATES THE POSSIBILITY OF ANOTHER
REGION TRAILING 3477 AT THE SOUTHEAST LIMB. THAT IS THE REASON
FOR OUR RAISING THE FLARE PROBABILITIES OVER THE NEXT 3 DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED AND IS EXPECTED TO REMAIN AT UNSETTLED LEVELS.
THERE IS ABOUT A 25 PERCENT CHANCE OF GETTING GEOMAGNETIC
ACTIVITY IN RESPONSE TO THE 2B FLARE. ANY SUCH ACTIVITY WOULD
OCCUR ON ABOUT 29 NOV.

III. EVENT PROBABILITIES 27 NOV-29 NOV

CLASS M 40/50/60

CLASS X 01/01/05

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 NOV 182

PREDICTED 27 NOV-29 NOV 195/200/205

90 DAY MEAN 26 NOV 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 NOV 020/018

ESTIMATED AFR/AP 26 NOV 010/012

PREDICTED AFR/AP 27 NOV-29 NOV 015/012-012/010-007/010

SOLTERWARN

BT

HXUS BCU 262200

FREDM 04027 05028 06029

FREDX 00127 00128 00529

PREDP 00127 00128 00529

PCAFT 00127

TENCM 19527 20028 20529

AFRED 01527 01228 00729

AFAPF 01227 01028 01029

BT