

HFUS , BOU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 322A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 18 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
17/1200Z TO 18/1200Z: SOLAR ACTIVITY INCREASED ABRUPTLY TO THE
MODERATE LEVEL WITH THE OCCURRENCE OF AN M2/1B FLARE IN REGION
3467 (S17W29) AT 0416Z MAXIMUM. MODERATE DISCRETE FREQUENCY
RADIO BURSTS WERE RECORDED THROUGHOUT THE SPECTRUM. THIS REGION
HAS DEVELOPED VERY RAPIDLY FROM A SMALL B-TYPE GROUP YESTERDAY
TO A D-TYPE BETA GAMMA CONFIGURATION TODAY. IT DEVELOPED NEAR
PREVIOUSLY ACTIVE LONGITUDES LAST ROTATION. REGION 3465
(S,4W72), A SOMEWHAT DORMANT REGION WHEN IT FIRST APPEARED, HAS
NOW SHOWN RAPID GROWTH ALONG WITH SUBFLARE PRODUCTION. REGION
3461 (S04E07), A PRODUCTIVE REGION SINCE ITS ARRIVAL AT EAST
LIMB, IS NOW SHOWING SIGNS OF SLOW DECAY ALONG WITH DECREASED
FLARE PRODUCTION. THE EASTERN HALF OF THE SUN IS NOW LOOKING
BLAND COMPARED TO THE DEVELOPING WESTERN HALF.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN GENERALLY LOW. REGION 3467'S GROWTH SHOULD STABILIZE SOON
AND THUS BE A THREAT FOR ONLY ISOLATED M-CLASS EVENTS. WITH THE
LOSS OF REGION 3451 (NOW AT N20, WEST LIMB) AND NO SIGNIFICANT
RETURNING REGIONS, SOLAR ACTIVITY AND INDICES SHOULD APPROACH
THE MINIMUM OF THE 27 DAY CYCLE DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
REMAINED ACTIVE DURING THE PAST 24 HOURS. ACTIVE CONDITIONS ARE
EXPECTED TO CONTINUE THROUGH THE REMAINDER OF TODAY, FOLLOWED
BY GRADUALLY SETTLING LEVELS.

III. EVENT PROBABILITIES 19 NOV-21 NOV

CLASS M 10/40/40
CLASS X 05/05/05
PROTON 05/05/05
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	17 NOV	177
ESTIMATED	18 NOV	172
PREDICTED	19 NOV-21 NOV	167/165/163
90 DAY MEAN	17 NOV	228

V. GEOMAGNETIC A INDICES

OBSERVED AFR	16 NOV	016	AP 17 NOV	027
ESTIMATED AFR	17 NOV	024	AFR/AP 18 NOV	020/025
PREDICTED AFR/AP	19 NOV-21 NOV	012/015-007/014-010/012		

SOLTERWARN

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HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 322B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 18 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
18/1200Z TO 18/2100Z: SOLAR ACTIVITY HAS BEEN QUIET FOR THE PAST
12 HOURS. ONLY REGION 3467 (S17W35) HAS PRODUCED SIGNIFICANT
ACTIVITY AND THAT HAS BEEN LIMITED TO SUBFLARES. ITS SMALL
SPOT GROUP HAS MAGNETIC COMPLEXITY RESULTING FROM INTERACTION
WITH FIELDS TO ITS WEST.

IB. SOLAR ACTIVITY FORECAST: SOLAR FLARE ACTIVITY IS EXPECTED
TO BE LOW WITH A DECREASING CHANCE OF CLASS M EVENTS AS REGION
3467 BEGINS TO DECLINE TOMORROW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE FOR THE PAST 12 HOURS. UNSETTLED CONDITIONS ARE
EXPECTED THROUGHOUT THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 19 NOV-21 NOV

CLASS M 40/30/20

CLASS X 05/02/01

PROTON 05/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 NOV 167

PREDICTED 19 NOV-21 NOV 158/150/140

90 DAY MEAN 18 NOV 227

V. GEOMAGNETIC A INDICES 28

OBSERVED AFR/AP 17 NOV 016/026

ESTIMATED AFR/AP 18 NOV 020/025

PREDICTED AFR/AP 19 NOV-21 NOV 012/015-007/014-010/012

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HXUS BOU 182200

FREDM 04019 03020 02021

FREDX 00519 00220 00121

FREDP 00519 00220 00121

PCAFT 00119

TENCM 15819 15020 14021

AFRED 01219 00720 01021

AFAPF 01519 01420 01221

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