

HFUS 1 BOU 011300 CIROR
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 305A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 01 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
31/1200Z TO 01/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW. REGION
3432 (S12E45) HAS PRODUCED FREQUENT SUBFLARES INCLUDING A C7/SB
AT 01/0445UT AND A C1/SF WHICH WAS ACCOMPANIED BY A MODERATE
INTENSITY TYPE II BURST. THIS REGION CONTINUES TO GROW AND
EXHIBIT CONTINUAL CHANGE ESPECIALLY IN ITS TRAILING PORTION.
3432 HAS NOW REACHED SIGNIFICANT REGION STATUS WITH ITS LARGE
AREA, MAGNETIC COMPLEXITIES, AND LOCATION WITHIN PREVIOUSLY
ACTIVE LONGITUDES. OTHER REGIONS ARE SMALL, SIMPLE, AND QUIET
TO ONLY SLIGHTLY ACTIVE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BECOME
MODERATE. REGION 3432, WHILE PRODUCING ONLY CLASS C SUBFLARES
THUS FAR, SHOULD BEGIN TO PRODUCE M CLASS FLARES SOON. LARGER
EVENTS REMAIN POSSIBLE. PREVIOUSLY ACTIVE REGION 3390 IS
EXPECTED TO RETURN TO THE VISIBLE DISK ON 03 AND 04 NOVEMBER.
IT IS NOT EXPECTED TO BE AS ACTIVE AS IT WAS LAST ROTATION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. THE FIELD SHOULD BE UNSETTLED FOR THE NEXT THREE
DAYS. STORM CONDITIONS COULD EXIST NEAR THE END OF THE
FORECAST PERIOD SHOULD A MAJOR FLARE ERUPT FROM REGION 3432 IN
THE VERY NEAR FUTURE.

III. EVENT PROBABILITIES 02 NOV-04 NOV

CLASS M 50/50/60
CLASS X 10/10/10
PROTON 01/01/05
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 OCT 210
ESTIMATED 01 NOV 222
PREDICTED 02 NOV-04 NOV 228/235/243
90 DAY MEAN 31 OCT 222

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 OCT 009 AP 31 OCT 007
ESTIMATED AFR 31 OCT 006 AFR/AP 01 NOV 005/008
PREDICTED AFR/AP 02 NOV-04 NOV 007/013-008/021-010/023

SOLTERWARN

BT

HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 305B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 0200Z 01 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
01/1200Z TO 01/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE WITH
NEARLY ALL ACTIVITY COMING FROM REGION 3432(S12E37). THIS
REGION HAS DEVELOPED TO AN AREA OF 1300 MILLIONTHS AND
CONTINUES TO EXHIBIT BOTH SPOT AND MAGNETIC COMPLEXITY. A
C6/SB OCCURRED, MAX AT 1526Z, AND SUB BRIGHT OPTICAL EVENT
BEGAN AT 1643Z, PRODUCING MULTIPLE PEAKS IN XRAY. THESE WERE C4
MAX AT 1648Z, AND C7 AT 1725, AND M1 AT 1814. SIGNIFICANT
RADIO EMISSION AT ALL DISCRETE FREQUENCIES WAS OBSERVED DURING
THIS EVENT, INCLUDING 1300 FU AT 245MHZ, MAX AT 1813Z. FIVE NEW
REGIONS WERE NUMBERED TODAY, 3438(S23W52), 3439(S03W09),
3440(N14E52), 3441(N04E76), 3442(S04E84). REGIONS 3427(N15E08),
3429(S22E07), AND 3433(N11W35) ALSO CONTRIBUTED LOW LEVEL
ACTIVITY DURING THE PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN MODERATE WITH REGION 3432 EXPECTED TO BE THE PRINCIPAL
SOURCE. NO EVIDENCE HAS BEEN REPORTED SUGGESTING DECLINE IN
THIS REGION DURING ACTIVITY SO FAR.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET UNTIL RECENT HOURS WHEN IT BECAME SLIGHTLY
UNSETTLED. THE FIELD IS EXPECTED TO REMAIN AT UNSETTLED LEVELS
DURING THE FORECAST INTERVAL.

III. EVENT PROBABILITIES 02 NOV-04 NOV

CLASS M 60/60/70

CLASS X 10/10/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 NOV 232

PREDICTED 02 NOV-04 NOV 230/238/248

90 DAY MEAN 01 NOV 222

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 OCT 004/007

ESTIMATED AFR/AP 01 NOV 008/008

PREDICTED AFR/AP 02 NOV-04 NOV 007/013-008/015-010/015

SOLTERWARN

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