

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

I A. 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 ACCCOMPANIED 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.

I B. 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 ~200Z 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/SR 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

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