

HXUS 1 BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 323A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 24 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
23/1200Z TO 24/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3471  
(N13W50) IS DECAYING BUT STILL CONTAINS SOME MAGNETIC  
COMPLEXITY. IT HAS PRODUCED ONLY SMALL CLASS C FLARES IN THE  
PAST 48 HOURS. REGIONS 3461 (S05W75) AND 3475 (N07E45) ARE ALSO  
DECAYING. THEY HAVE PRODUCED ONLY ONE SMALL SUBFLARE APIECE. A  
NEW REGION AT S08 EAST LIMB APPEARS TO BE THE RETURN OF  
PREVIOUSLY ACTIVE REGION 3432. NO ACTIVITY HAS BEEN REPORTED IN  
THIS REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW, WITH ONLY AN ISOLATED M EVENT POSSIBLE FROM REGION  
3471 OR THE NEW REGION AT S08 EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED  
25-26 NOV AS A RESULT OF THE FLARE, DISAPPEARING FILAMENT AND  
CORONAL HOLE OBSERVED ON 22 NOV. A PARTICLE ENHANCEMENT, AT  
SATELLITE ALTITUDES, BEGAN 23/0400Z AND ENDED 24/0100Z. IT DID  
NOT REACH EVENT LEVELS.

III. EVENT PROBABILITIES 25 NOV-27 NOV

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 NOV 156

ESTIMATED 24 NOV 154

PREDICTED 25 NOV-27 NOV 160/164/163

90 DAY MEAN 23 NOV 222

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 NOV 009 AP 23 NOV 023

ESTIMATED AFR 23 NOV 012 AFR/AP 24 NOV 003/016

PREDICTED AFR/AP 25 NOV-27 NOV 020/023-015/023-010/012

SOLTERWARN

BT

HXUS BOU 241300

PREDM 02525 02525 02527

PREDX 00125 00125 00127

PREDP 00125 00125 00127

PCAFT 00125

TENVCM 16025 16425 16327

AFRED 02025 01526 01027

AFAPP 02825 02326 01227

KKK 22344 43323 44333

BT

HFUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 323B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
24/1200Z TO 24/2100Z: SOLAR ACTIVITY CONTINUED AT LOW LEVELS  
DURING THIS PERIOD. THERE ARE NOW ONLY SIX SPOTTED REGIONS ON  
THE DISK. REGION 3475 (N03E37) PRODUCED A FEW FLARES, THE  
LARGEST BEING A 1N/C3 EVENT AT 2040Z. NEW REGION 3477 (S07E76)  
IS NOT FAR ENOUGH FROM THE EAST LIMB TO DETERMINE ITS FLARE  
POTENTIAL, BUT ITS SIZE IS DEFINITELY GREATER THAN ANYTHING  
ELSE ON THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE AT LOW LEVELS. THIS FORECAST COULD CHANGE WHEN MORE  
DATA ON REGION 3477 BECOME AVAILABLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN QUIET OR UNSETLED THE LAST 9 HOURS. ACTIVE CONDITIONS ARE  
FORECAST FOR 25-26 NOVEMBER.

III. EVENT PROBABILITIES 25 NOV-27 NOV

CLASS M 25/30/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 NOV 154

PREDICTED 25 NOV-27 NOV 160/164/163

30 DAY MEAN 24 NOV 220

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 NOV 013/023

ESTIMATED AFR/AP 24 NOV 003/012

PREDICTED AFR/AP 25 NOV-27 NOV 020/023-015/023-010/012

SOLTERWARN

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HFUS BOU 242200

PREDM 02525 03026 04027

PREDX 00125 00125 00127

PREDP 00125 00125 00127

PCAFM 00125

TENCM 15025 15425 15827

AFRFD 02025 01525 01027

AFAPP 02325 02325 01227

BT