

HFUS 1 BOU 101300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 314A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 10 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
09/1200Z TO 10/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE  
OBSERVING PERIOD. IN ADDITION TO THE M3/1B OF 09/1312Z MAX. OUT  
OF REGION 3450(S19E03), AN UNASSOCIATED M1 FLARE OCCURRED AT  
10/0551Z MAX. REGION 3444 (S15W27) PRODUCED A C3/1B FLARE AT  
09/2025Z MAX. OTHER ACTIVITY WAS LIMITED SMALL C CLASS XRAY  
AND SUB CLASS OPTICAL EVENTS. REGION 3432(S09W79) CONTINUES TO  
DECAY AS IT MOVES ONTO THE WEST LIMB. LEFT BEHIND ARE SEVERAL  
REGIONS WITH FLARE CAPABILITY. THE LARGEST 3450(S19E15) AT 500  
MILLIONTHS AREA HAS STABILIZED AND FAILS TO SHOW THE DEGREE OF  
COMPLEXITY THAT WOULD SUGGEST MAJOR EVENTS. 3444(S15W27) HAS  
ALSO STABILIZED AS A SIMPLE REGION OF 200 MILLIONTHS. REGION  
3451(N18E24) IS CURRENTLY MORE MODEST IN AREA BUT IS DEVELOPING  
IN SIZE AND COMPLEXITY, MAY HAVE DEVELOPED A DELTA AND  
THEREFORE DESERVES ATTENTION.

IR. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY MAY BE EXPECTED TO  
CONTINUE MODERATE. WHILE NO ONE REGION MAY BE EXPECTED TO  
CONTRIBUTE HEAVILY TO SOLAR ACTIVITY DURING THE FORECAST  
PERIOD, THE NUMBER OF REGIONS CAPABLE OF SIGNIFICANT ACTIVITY  
IS LARGE ENOUGH TO SUGGEST A FAIRLY STEADY OUTPUT AT MODERATE  
LEVELS FOR THE NEXT FEW DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED AND IS EXPECTED TO STAY AT MORE OR LESS  
UNSETTLED LEVELS FOR THE FORECAST PERIOD. HOWEVER, RECENT  
SOLAR ACTIVITY MAY CAUSE BRIEF ACTIVE LEVELS TO OCCUR WITHIN  
THE PERIOD.

III. EVENT PROBABILITIES 11 NOV-13 NOV

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 NOV 237

ESTIMATED 10 NOV 231

PREDICTED 11 NOV-13 NOV 227/223/213

90 DAY MEAN 09 NOV 229

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 NOV 027 AP 09 NOV 007

ESTIMATED AFR 09 NOV 009 AFR/AP 10 NOV 015/014

PREDICTED AFR/AP 11 NOV-13 NOV 015/020-015/020-010/010

SOLTERWARN

BT

HXUS BOU 101300

PREDM 07011 07012 07013

PREDX 01011 01012 01013

PREDP 00511 00512 01013

PCAF 00111

TENCM 22711 22312 21813

AFRED 01511 01512 01013

AFAPF 02011 02012 01013

KKK 43343 33223 34333

BT

END OF BUFFER  
HFUS 3 BOU 102200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 314B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 10 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
10/1200Z TO 10/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY  
CLASS C XRAY EVENTS REPORTED. REGION 3432(S09W83) IS DECAYING  
BUT CONTINUES TO PRODUCE SMALL FLARES AS IT ROTATES BEYOND WEST  
LIMB. THE LARGEST FLARE FROM THIS REGION WAS A C6/SN AT 1903Z.  
REGION 3451(N19E03) IS GROWING RAPIDLY AND HAS DOUBLED IN SPOT  
GROUP SIZE TO A CLASS/AREA D/300 SINCE YESTERDAY. A LONG LIVED  
C4/1B FLARE BEGAN IN THIS REGION AT 1453Z. THE SPOT GROUP IN  
REGION 3450(S20W01) IS RESTRUCTURING BUT NO INCREASE IN OTHER  
ACTIVITY HAS BEEN OBSERVED. SMALL NEW REGION 3459(N13W17) WAS  
NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
RETURN TO A MODERATE LEVEL DURING THE FORECAST PERIOD WITH  
CLASS M EVENTS POSSIBLE FROM REGIONS 3450 AND 3451.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED AND IS EXPECTED TO REMAIN UNSETTLED FOR THE NEXT  
3 DAYS.

III. EVENT PROBABILITIES 11 NOV-13 NOV

CLASS M 70/70/70  
CLASS X 10/10/10  
PROTON 05/05/10  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 NOV 226  
PREDICTED 11 NOV-13 NOV 220/216/212  
90 DAY MEAN 10 NOV 229

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 NOV 006/007  
ESTIMATED AFR/AP 10 NOV 014/013  
PREDICTED AFR/AP 11 NOV-13 NOV 015/020-015/020-010/010

SOLTERWARN

BT

HXUS BOU 102200  
PREDM 07011 07012 07013  
PREDX 01011 01012 01013  
PREDP 00511 00512 01013  
PCAFT 00111  
TFNCM 22011 21612 21213  
AFRED 01511 01512 01013  
AFAPF 02011 02012 01013  
BT