

HFUS 3 BOU 15 1400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SD F NUMBER 320A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 15 NOV 1980

I. SOLAR ACTIVITY HAS BEEN HIGH DURING THE PAST 24 HOURS.  
ALL FOUR OF THE CLASS M EVENTS OCCURRED IN REGION 2779 (S11W5D).  
AN M2/2B MAXIMUM OCCURRED AT 14/1547Z AND AN M6/1B MAXIMUM AT  
15/0004 THESE AND THE OTHER LESS SIGNIFICANT CLASS M EVENTS  
WERE ACCOMPANIED BY MODEST RADIO EMISSION. THE M1/SF EVENT AT  
15/0728 MAXIMUM PRODUCED 120 F.U. OF RADIO EMISSION AT 245 MHZ  
AND TWO UNASSOCIATED BURSTS AT 245 MHZ OCCURRED NEAR THAT TIME,  
ONE OF 750 F.U. THE OTHER OF 450 F.U. REGION 2779 IS CUR-  
RENTLY THE ONLY REGION ON THE SOLAR DISK WITH PROPERTIES SUG-  
GESTING CONTINUED HIGH TO MODERATE ACTIVITY. THE REGION APPEARS  
TO CONTAIN A MAGNETIC DELTA STALL, AND ALTHOUGH SOME DECAY IN  
WHITE LIGHT IS BEING OBSERVED, IN PARTICULAR, AREA HAS DECREASED  
AND FEWER LEADER SPOTS ARE OBSERVED, YET THE MAGNETIC  
GRADIENTS IN THIS REGION REMAIN LARGE, AND FURTHER ACTIVITY IS  
LIKELY DURING THE DECLINE PHASE.

II. SOLAR ACTIVITY MAY BE EXPECTED TO MODERATE SOMEWHAT, BUT  
MAY REMAIN AT OR NEAR HIGH LEVELS FOR THE FORECAST INTERVAL.  
REGION 2779 WILL CONTINUE TO BE THE PRINCIPAL SOURCE OF ACTIVITY.

III. THE GEOMAGNETIC FIELD HAS REACHED ACTIVE LEVELS BRIEFLY  
DURING RECENT HOURS. THE FIELD MAY BE UNDER THE INFLUENCE OF A  
CORONAL HOLE OR AFFECTED BY CURRENT SOLAR ACTIVITY DUE TO THE  
POSITION OF REGION 2779. ACTIVITY IS EXPECTED TO CONTINUE AT  
UNSETLED LEVELS DURING MOST OF THE FORECAST INTERVAL.

IV. EVENT PROBABILITIES: 16 NOV - 18 NOV

CLASS M 95/95/95

CLASS X 30/25/20

PREDICTON 20/20/20

PCAF YELLOW

V. OTTAWA 10.7 FLUX

OBSERVED 14 NOV 227

ESTIMATED 15 NOV 220

PREDICTED 16-18 NOV 214/208/202

90 DAY MEAN 14 NOV 202

VI. GEOMAGNETIC INDICES

OBSERVED AFR 13 NOV 05 AP 13 NOV 06

ESTIMATED AFR 14 NOV 07/13 AP 15 NOV 22/25

PREDICTED AFR/AP 16-18 NOV 16/18 12/14 10/12

SOLAR TERMARN

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HFUS1 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 320B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 15 NOV 1980

IA. SOLAR ACTIVITY HAS BEEN HIGH DURING THE PAST 24 HOURS. REGION 2779 (S11W58) PRODUCED A X2/1B FLARE AT 15/1553Z WITH ASSOCIATED RADIO BURSTS OF 1700 FU AT 245 MHZ AND 370 FU AT 2695 MHZ. THIS REGION HAS ALSO PRODUCED 6 CLASS M EVENTS IN THE PAST 24 HOURS, THE LARGEST BEING AN M6/1B AT 15/0004Z. REGION 2788 (N19E05) PRODUCED THE ONLY OTHER M EVENT TODAY, A M2/SB AT 15/1312Z. REGION 2779 IS CURRENTLY THE ONLY REGION ON THE SOLAR DISK WITH PROPERTIES SUGGESTING CONTINUED HIGH TO MODERATE ACTIVITY. THE REGION APPEARS TO CONTAIN A MAGNETIC DELTA STALL, AND ALTHOUGH SOME DECAY IN WHITE LIGHT IS BEING OBSERVED, IN PARTICULAR, AREA HAS DECREASED AND FEWER LEADER SPOTS ARE OBSERVED, YET THE MAGNETIC GRADIENTS IN THIS REGION REMAIN LARGE, AND FURTHER ACTIVITY IS LIKELY DURING THE DECLINE PHASE.

IB. SOLAR ACTIVITY MAY BE EXPECTED TO MODERATE SOMEWHAT, BUT MAY REMAIN AT OR NEAR HIGH LEVELS FOR THE FORECAST INTERVAL. REGION 2779 WILL CONTINUE TO BE THE PRINCIPAL SOURCE OF ACTIVITY. II. THE GEOMAGNETIC FIELD HAS REACHED ACTIVE LEVELS BRIEFLY DURING RECENT HOURS. THE FIELD MAY BE UNDER THE INFLUENCE OF A CORONAL HOLE OR AFFECTED BY CURRENT SOLAR ACTIVITY DUE TO THE POSITION OF REGION 2779. ACTIVITY IS EXPECTED TO CONTINUE AT UNSETTLED LEVELS DURING MOST OF THE FORECAST INTERVAL.

III. EVENT PROBABILITIES: 16-18 NOV

CLASS M 95/95/95

CLASS X 30/25/20

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 15 NOV 212

PREDICTED 16-18 NOV 200/185/170

90 DAY MEAN 15 NOV 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 NOV 10/09

ESTIMATED AFR/AP 15 NOV 18/23

PREDICTED AFR/AP 16-18 NOV 16/18 12/14 10/12

SOLTERWARN

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