

HFUS 3 2011 15 1400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SOF NUMBER 320A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 15 NOV 1980

IA. SOLAR ACTIVITY HAS BEEN HIGH DURING THE PAST 24 HOURS.
ALL FOUR OF THE CLASS M EVENTS OCCURRED IN REGION 2779 (S11W5 D).
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 STILL, 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 NOV - 18 NOV

CLASS M 95/95/95

CLASS X 30/25/20

PROTON 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

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 NOV 05 AP 13 NOV 06

ESTIMATED AFR 14 NOV 27/13 AFR/AP 15 NOV 22/25

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

SOLTERWARN

BT

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HFUS1 BCU 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 2783 (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 STILL, 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 13/23

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

SOLTERWARN

BT