

HFUS 3 BDU 111405

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SD F NUMBER 31SA

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 11 NOV 1980

1A. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.

NUMEROUS M-CLASS FLARES HAVE OCCURRED YESTERDAY AND TODAY

FROM REGIONS 2776 (N 12W 67), 2777 (S 11W 05), AND 2779 (S 11E 02).

THE MOST SIGNIFICANT OF THESE FLARES WAS AN M8/2B FROM REGION

2777 AT 110/113Z AND AN M9/2B FROM REGION 2776 AT 11/0904Z.

REGIONS 2776 AND 2779 BOTH HAVE STRONG MAGNETIC GRADIENTS AND

HAVE RETAINED THEIR DELTAS. REGION 2777 HAS STRENGTHENED (IT'S

GRADIENT) AND 2782 (S 18W 34) HAS RELAXED ITS GRADIENT AND DECAYED

SLIGHTLY IN WHITE LIGHT.

1B. SOLAR ACTIVITY IS EXPECTED TO REMAIN HIGH TO MODERATE.

REGIONS 2776 AND 2779 BOTH HAVE EXCELLENT POTENTIAL FOR X-CLASS

FLARES. REGIONS 2777 AND 2782 BOTH HAVE THE POTENTIAL FOR

M-CLASS FLARES.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED ON 10 NOV AND IS

EXPECTED TO BECOME MILDLY ACTIVE ON 11 NOV, RETURNING TO HIGH

UNSETTLED CONDITIONS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 12 - 14 NOV

CLASS M . . . 95/95/85

CLASS X . . . 35/35/25

PREDICTED . . . 30/30/25

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBERVED 10 NOV 271

ESTIMATED 11 NOV 265

PREDICTED 12-14 NOV 250/240/220

90 DAY MEAN 10 NOV 200

V. GEOMAGNETIC INDICES

OBERVED AFR 09 NOV 07 AP 10 NOV 11

ESTIMATED AFR 10 NOV 12 AP 11 NOV 13/25

PREDICTED AFR/AP 12-14 NOV 13/15 14/20 14/20

SOLTERWARN

BT

HFUS 1 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDE NUMBER 3108

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 11 NOV 1980

I. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. NUMEROUS M-CLASS FLARES HAVE OCCURRED TODAY FROM REGIONS 2776 (N 12W 74), 2777 (S 11W 73), AND 2779 (S 11W 05). THE MOST SIGNIFICANT OF THESE FLARES WAS AN M9/2B FROM REGION 2776 AT 11/0904Z, AN M4/2B FROM REGION 2777 AT 1742Z MAXIMUM WITH 200 FLUX UNITS AT 2695 MHZ, AND AN M1/1B FROM REGION 2779 AT 1725Z WITH AN ASSOCIATED 400 FLUX UNIT BURST AT 2695 MHZ. REGIONS 2776 AND 2779 BOTH HAVE STRONG MAGNETIC GRADIENTS AND HAVE RETAINED THEIR DELTAS. REGION 2777 HAS STRENGTHENED ITS GRADIENT AND 2782 (S 18W 34) HAS RELAXED ITS GRADIENT AND DECAYED SLIGHTLY IN WHITE LIGHT.

II. SOLAR ACTIVITY IS EXPECTED TO REMAIN HIGH TO MODERATE. REGIONS 2776 AND 2779 BOTH HAVE EXCELLENT POTENTIAL FOR X-CLASS FLARES. REGIONS 2777 AND 2782 BOTH HAVE THE POTENTIAL FOR M-CLASS FLARES.

III. THE GEOMAGNETIC FIELD HAS BECOME ACTIVE DURING THE PAST 10 HOURS. ACTIVE TO OCCASIONAL MINOR STORM LEVELS ARE EXPECTED FOR THE NEXT 24 HOURS.

IV. EVENT PROBABILITIES: 12 - 14 NOV

CLASS M 95/95/85

CLASS X 35/35/25

PROTON 30/30/25

PCAF YELLOW

V. OTTAWA 10.7 FLUX

OBSERVED 11 NOV 25

PREDICTED 12-14 NOV 250/240/220

90 DAY MEAN 11 NOV 201

VI. GEOMAGNETIC INDICES

OBSERVED AFR/AP 10 NOV 12/11

PREDICTED AFR/AP 11 NOV 19/20

SOLAR WARN 14/20 14/20

BT