

HFUS 3 BQU 111405  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 315A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1200UT 11 NOV 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.  
NUMEROUS M-CLASS FLARES HAVE OCCURRED YESTERDAY AND TODAY  
FROM REGIONS 2776 (N12W67), 2777 (S11W65), AND 2779 (S11E02).  
THE MOST SIGNIFICANT OF THESE FLARES WAS AN M8/2B FROM REGION  
2777 AT 10/1138Z 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 ITS  
GRADIENT AND 2782 (S18W34) HAS RELAXED ITS GRADIENT AND DECAYED  
SLIGHTLY IN WHITE LIGHT.

IB. 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

PROTON 30/30/25

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 10 NOV 271

ESTIMATED 11 NOV 265

PREDICTED 12-14 NOV 250/240/220

90 DAY MEAN 10 NOV 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 NOV 07 AP 10 NOV 11

ESTIMATED AFR 10 NOV 12 AFR/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  
OF NUMBER 3158

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200UT 11 NOV 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.  
NUMEROUS M-CLASS FLARES HAVE OCCURRED TODAY FROM REGIONS 2776  
(N12W74), 2777 (S11W73), AND 2779 (S11W05). THE MOST SIGNI-  
FICANT 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 2.695 MHZ, AND AN M1/1B FROM REGION 2779 AT 1725Z WITH  
AN ASSOCIATED 400 FLUX UNIT BURST AT 2.695 MHZ. REGIONS 2776  
AND 2779 BOTH HAVE STRONG MAGNETIC GRADIENTS AND HAVE RETAINED  
THEIR DELTAS. REGION 2777 HAS STRENGTHENED ITS GRADIENT AND 2782  
(S18W34) HAS RELAXED ITS GRADIENT AND DECAYED SLIGHTLY IN WHITE  
LIGHT.

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

III. EVENT PROBABILITIES: 12 - 14 NOV

CLASS M 95/95/85

CLASS X 35/35/25

PROTON 30/30/25

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 11 NOV 25

PREDICTED 12-14 NOV 25/24/220

90 DAY MEAN 11 NOV 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 NOV 12/11

ESTIMATED AFR/AP 11 NOV 19/20

PREDICTED AFR/AP 12/14 NOV 25/25 14/20 14/20

SOLTERWARN

BT