

HFUS 3 BOU 281417  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 333A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1200UT 28 NOVEMBER 1980

IA. SOLAR ACTIVITY REACHED A MODERATE LEVEL TODAY WITH A M1/SB FLARE AT 28/0948Z FROM REGION 2810 (S11E66). THE FLARE HAD A VERY LONG DURATION, WITH XRAY LEVELS CONTINUING WELL ABOVE BACKGROUND LEVELS AT THE TIME OF THIS REPORT, 2 HOURS AFTER FLARE MAXIMUM. THE REGION IS GROWING IN SPOT AREA BUT IS NOT MAGNETICALLY COMPLEX. A NEW REGION 2812 (N15E03) HAS DEVELOPED ON THE DISK TO A D TYPE SPOT GROUP AND BRIGHT ACTIVE PLAGE. IT HAS PRODUCED 3 SUBFLARES, THE LARGEST A C2/SB AT 27-2045Z. MINOR SURGING IS REPORTED FROM REGION 2794 (N10W1). NO OTHER SIGNIFICANT ACTIVITY HAS BEEN OBSERVED.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT LOW TO MODERATE LEVELS. REGION 2810 MAY PRODUCE LARGER CLASS M LEVEL EVENTS IF IT CONTINUES TO DEVELOP. ALL OTHER REGIONS ARE EXPECTED TO CONTRIBUTE ONLY SMALL EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN MOSTLY ACTIVE THE PAST 24 HOURS. UNSETTLED CONDITIONS ARE FORECAST FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 29 NOV - 01 DEC

CLASS M	60/60/60
CLASS X	01/01/01
PROB ON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED	27 NOV 190
ESTIMATED	28 NOV 192
PREDICTED	29-NOV-01 DEC 196/200/205
90 DAY MEAN	27 NOV 203

V. GEOMAGNETIC INDICES

OBSERVED AFR	26 NOV 21 AP	27 NOV 16
ESTIMATED AFR	27 NOV 16 AFR/AP	28 NOV 18/22
PREDICTED AFR/AP	29 NOV-01 DEC 12/12	10/10 10/10
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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SD NUMBER 333B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 28 NOV 1980

IA. SOLAR ACTIVITY REACHED A MODERATE LEVEL TODAY WITH A M1/SB FLARE AT 28/0948Z FROM REGION 2810 (S11E66). THE FLARE HAD A VERY LONG DURATION, WITH XRAY LEVELS CONTINUING WELL ABOVE BACKGROUND LEVELS AT THE TIME OF THIS REPORT, 2 HOURS AFTER FLARE MAXIMUM. THE REGION IS GROWING IN SPOT AREA BUT IS NOT MAGNETICALLY COMPLEX. A NEW REGION 2812 (N15E03) HAS DEVELOPED ON THE DISK TO A D TYPE SPOT GROUP AND BRIGHT ACTIVE PLACE. IT HAS PRODUCED 3 SUBFLARES, THE LARGEST A C2/SB AT 27-245Z. MINOR SURGING IS REPORTED FROM REGION 2794 (N10W1). NO OTHER SIGNIFICANT ACTIVITY HAS BEEN OBSERVED.

---ADDITIONS TO 1200UT PART IA.---

AN M<sub>o</sub> XRAY EVENT WAS OBSERVED AT 1442Z FROM AN UNKNOWN SOURCE. THIS ACTIVITY MOST PROBABLY WAS FROM BEHIND THE SE-LIMB IN THE AREA OF RETURNING 2782. NEW REGION 2813 (N13E58) PRESENTLY DISPLAYS AN AX SPOT GROUP. NEW REGION 2814 (S07E19) IS PRESENTLY A B-TYPE GROUP. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT LOW TO MODERATE LEVELS. REGION 2810 MAY PRODUCE LARGER CLASS M LEVEL EVENTS IF IT CONTINUES TO DEVELOP. ALL OTHER REGIONS ARE EXPECTED TO CONTRIBUTE ONLY SMALL EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN MOSTLY ACTIVE THE PAST 24 HOURS. UNSETLED CONDITIONS ARE FORECAST FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 29 NOV - 01 DEC

CLASS M 60/60/60

CLASS X 01/01/01

PROMPT 01/01/01

DCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 28 NOV 197

PREDICTED 29 NOV-01 DEC 208/212/215

90 DAY MEAN 28 NOV 203

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 27 NOV 13/16

ESTIMATED AFR/AP 28 NOV 16/20

PREDICTED AFR/AP 29 NOV-01 DEC 12/12 10/10 10/10

SOLTERWARN

BT