

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 FLARE. 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 DEVELOPE. 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

PROTON 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 A 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

SOLTERWARN

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1 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF 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 FLARE. IT HAS PRODUCED 3 SUBFLARES, THE LARGEST A C2/SB AT 27-245Z, MINOR SURGING IS REPORTED FROM REGION 2794 (N10WL). NO OTHER SIGNIFICANT ACTIVITY HAS BEEN OBSERVED.

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

AN M- 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 AXX SPOT GROUP. NEW REGION 2814 (S07E19) IS PRESENTLY A B-TYPE GROUP. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

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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

PROTON 01/01/01

PCAF 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 A 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