

HFUS 1 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 311

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 07 NOVEMBER 1978

IA. SOLAR ACTIVITY WAS GENERALLY LOW DURING THE PAST 24 HOURS.
REGION 1385 (N18E30) PRODUCED A C7/IN FLARE WHICH MAXED NEAR
071631Z. REGION 1382 (S12W02) PRODUCED SEVERAL SMALL SUBFLARES
AND DISPLAYED FREQUENT PLAGE FLUCTUATIONS AND POINT BRIGHTENINGS.
THIS REGION UNDERWENT SOME STRUCTURAL CHANGES WITH ITS LARGE
LEADER SPOT SPLITTING IN TWO. REGION 1382 ALSO APPEARS TO BE
CONTRIBUTING TO A STRONG SOLAR NOISE STORM. REGION 1381 (S19W51)
PRODUCED SEVERAL SUBFLARES AND DISPLAYED POINT BRIGHTENINGS. THERE
APPEARS TO BE AN INTERESTING REGION COMING AROUND THE SE LIMB.
AN EPL OCCURRED NEAR SW13 OUT TO .20 SOLAR RADIUS WHICH BEGAN
NEAR 072018Z AND ENDED AT 2051Z.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE
NEXT 24 HOURS. M-CLASS FLARE ACTIVITY IS BECOMING MORE PROBABLE.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24 HOURS.
GENERALLY QUIET CONDITIONS WITH BRIEF PERIODS OF UNSETTLED
CONDITIONS ARE EXPECTED DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 08 NOVEMBER - 10 NOVEMBER

CLASS M 60/70/75

CLASS X 05/10/20

PROTON 05/10/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 NOVEMBER 177

PREDICTED 08-10 NOVEMBER 176/174/176

90-DAY MEAN 07 NOVEMBER 150

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 NOVEMBER 02

ESTIMATED AFR/AP 07 NOVEMBER 03/05

PREDICTED AFR/AP 08-10 NOVEMBER 06/06 - 07/07 - 07/08

SOLTERWARN

BT

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JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 07 NOVEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE TODAY. NUMEROUS M-CLASS X-RAY
EVENTS OCCURRED DURING THE PAST 24 HOURS PRIMARILY DUE TO
REGION 2099 (S12E19). THE LARGEST EVENT TODAY WAS AN M3 AT 2037 UT
FROM REGION 2099. MORE THAN 20 SUBFLARES WERE REPORTED TODAY FROM
REGIONS 2099, 2100 (S18W17), 2101 (N25E37), 2102 (N20W12), 2104
(S30E38), AND 2106 (S15E52). NO NEW REGIONS WERE CONFIRMED.

IB. ACTIVITY IS EXPECTED TO BECOME HIGH THROUGHOUT THE FORECAST
PERIOD DUE TO GROWTH IN REGIONS 2099 AND 2106 (S15E52). REGION
2110 (N33E70) IS ALSO ROTATING INTO A MORE FAVORABLE POSITION FOR
SIGNIFICANT FLARING.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED TODAY. THE FIELD IS
EXPECTED TO BECOME ACTIVE FOR THE FORECAST PERIOD DUE TO THE
LARGE NUMBER OF M-CLASS X-RAY EVENTS WHICH OCCURRED YESTERDAY AND
TODAY.

III. EVENT PROBABILITIES 08 NOVEMBER - 10 NOVEMBER

CLASS M 95/95/95

CLASS X 30/30/30

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 NOVEMBER 294

PREDICTED 08-10 NOVEMBER 302/305/300

90-DAY MEAN 07 NOVEMBER 208

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 NOVEMBER 01

ESTIMATED AFR/AP 07 NOVEMBER 12/15

PREDICTED AFR/AP 08-10 NOVEMBER 13/18 - 18/22 - 20/20

SOLTERWARN

BT