

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 298

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 OCTOBER 1978

IA. SOLAR ACTIVITY HAS REMAINED LOW. THERE WAS AN M1/SN FLARE WHICH OCCURRED AT 0206 U.T. FROM REGION 1355 (N28W17). AN APPARENT 2B OPTICAL FLARE WITH C6 X-RAY CLASSIFICATION AND A MINOR RADIO BURST (120 FU 245 MHZ) OCCURRED AT 1155 U.T. FROM S10E90, WHICH IS IN THE VICINITY OF OLD REGION 1320. SEVERAL OTHER MINOR C-CLASS EVENTS ALSO OCCURRED DURING THE PERIOD. AN ACTIVE SURGE REGION (SE15) WAS REPORTED IN PROGRESS.

REGION 1357 (S28W60) HAS HAD BRIGHT POINTS DURING THE PERIOD.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE DURING THE NEXT 24 HOUR PERIOD. THE REGION 1369 (S17E60) AND THE POSSIBLE REGION TRAILING 1369 AT SE10-20 COULD PRODUCE M-CLASS X-RAY EVENTS. REGION 1355 CONTINUES ITS APPARENT DECLINE, BUT MAY STILL PRODUCE AN ENERGETIC FLARE EVENT.

II. THE GEOMAGNETIC FIELD IS STILL EXPECTED TO COME UNDER THE INFLUENCE OF A SOLAR CORONAL HOLE PASSAGE DURING THE NEXT 24 HOUR PERIOD AND SHOULD BE AT UNSETTLED TO ACTIVE LEVELS.

III. EVENT PROBABILITIES 26 OCTOBER - 28 OCTOBER

CLASS M 50/60/60

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 OCTOBER 158

PREDICTED 26-28 OCTOBER 160/162/162

90-DAY MEAN 25 OCTOBER 142

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 OCTOBER 03

ESTIMATED AFR/AP 25 OCTOBER 06/12

PREDICTED AFR/AP 26-28 OCTOBER 22/30 - 15/20 - 10/15

SOLTERWARN

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SDF NUMBER 298

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
REGION 2078 (S18E16) PRODUCED A M1/SN FLARE AT 0044 U.T. AND A
C9/1B AT 2051 U.T., REGION 2062 (S29W56) PRODUCED A M2/1N EVENT
AT 0140 U.T. BOTH M CLASS X-RAY EVENT HAD NO RADIO OR SWEEP
BURSTS. REGION 2078 HAS SHOWN RAPID GROWTH IN THE PAST 24 HOURS
THE REGION IS A BETA GROUP HOWEVER CONTINUED GROWTH SHOULD RESULT
IN THE MAGNETIC CONFIGURATION INCREASING IN COMPLEXITY. NEW REGIONS
TODAY 2080 (S18W20), 2081 (S15W16), 2082 (N17E13) AND 2083 (N19E21)
THE CONFIGURATIONS OF ALL ARE SIMPLE.

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT OR NEAR MODERATE LEVELS
DURING THE NEXT 24 HOURS. REGION 2074 (S22E78) IS APPARENTLY MOVING
TOWARDS REGION 2078 WHICH MAY CAUSE AN INCREASE IN THE POTENTIAL FOR
LARGE M CLASS EVENTS. REGION 2062 CONTINUES TO SHOW SLOW GROWTH,
THE POTENTIAL FOR SMALL M CLASS EVENTS FROM THIS REGION CONTINUES.
REGION 2058 (N27W67) CONTINUES TO SHOW SLOW DECAY IT MAY PRODUCE
AN M CLASS EVENT PRIOR TO LIMB TRANSIT.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED DURING THE PAST 24 HOURS.

THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 - 28 OCTOBER

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 OCTOBER 218

PREDICTED 26 - 28 OCTOBER 210/202/194

90-DAY MEAN 25 OCTOBER 196

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 OCTOBER 12

ESTIMATED AFR/AP 25 OCTOBER 15/18

PREDICTED AFR/AP 26 - 28 OCTOBER 13/14 10/12 10/10

SOLTERWARN

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