

MV

HFUS 1 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 288

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN HIGH FOR THE PAST 24 HOURS. REGION 1332 WHICH IS APPROXIMATELY TWO DAYS BEHIND THE SOUTHWEST LIMB IS THE MOST PROBABLE SOURCE OF THE SEVEN CLASS M X-RAY EVENTS OBSERVED THUS FAR TODAY. DESPITE GOOD OBSERVATORY COVERAGE, ONLY ONE OF THESE EVENTS HAS HAD A CONCOMITANT OPTICAL FLARE REPORT - M1/1B AT 0400 UT. THE MOST SIGNIFICANT OF THE UNCORRELATED X-RAY EVENTS WAS AN M8 AT 0942 UT ACCCOMPANIED BY A SIGNIFICANT SHORT WAVE FADE AND MINOR CENTIMETRIC BURSTS. LIMB MANIFESTATIONS OF ENERGETIC EVENTS BEHIND THE LIMB CONTINUE TO BE OBSERVED ABOVE THE SOUTHWEST LIMB. REGION 1346 (S20W26) PRODUCED A C8/IN FLARE AT 1834 UT AND THIS REGION HAS SHOWN SOME GROWTH TRENDS. REGION 1348 (S22E12) HAS DOUBLED IN SIZE DURING THE PAST 24 HOURS. NO SIGNIFICANT ACTIVITY HAS BEEN PRODUCED BY THIS REGION BUT GROWTH TRENDS CONTINUE.

IB. SOLAR ACTIVITY SHOULD CONTINUE AT A HIGH LEVEL FOR ONE MORE DAY DUE TO THE CONTRIBUTION OF DEPARTED REGION 1332 THEN AN OVERALL MODERATE LEVEL OF ACTIVITY SHOULD PREVAIL FROM REGIONS CURRENTLY ON THE VISIBLE DISK. REGION 1304, MODERATELY ACTIVE LAST ROTATION, IS DUE TO RETURN NEAR N30 ON 17 OCTOBER.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR THE PAST 24 HOURS. THE EXPECTED MINOR STORM HAS NOT MATERIALIZED AT THE ISSUE TIME OF THIS FORECAST. HOWEVER, ACTIVE FIELD CONDITIONS SHOULD BE EXPERIENCED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 16 OCTOBER - 18 OCTOBER

CLASS M 80/80/80

CLASS X 25/25/25

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 OCTOBER 183

PREDICTED 16-18 OCTOBER 185/186/187

90-DAY MEAN 15 OCTOBER 138

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 OCTOBER 04

ESTIMATED AFR/AP 15 OCTOBER 07/08

PREDICTED AFR/AP 16-18 OCTOBER 18/18 - 15/15 - 15/12

SOLTERWARN

BT

16 17 18

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JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. C-CLASS X-RAY FLARE ACTIVITY WAS OBSERVED FROM REGIONS 2045 (N29W05) AND 2049 (N31E18). SPOT INTERACTION IS OCCURRING BETWEEN REGIONS 2045 AND 2042 (N23W16). REGION 2058 (N27E60) IS NOW SEEN TO BE AN E-TYPE GROUP WITH A POSSIBLE DELTA MAGNETIC CONFIGURATION. FOUR NEW REGIONS WERE NUMBERED TODAY, OF WHICH THE MOST SIGNIFICANT IS 2060 (S17E28), A RAPIDLY DEVELOPING B-TYPE GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE THROUGHOUT THE FORECAST PERIOD. REGIONS 2045, 2049, 2058, AND 2032 (N24W87) ARE ALL CAPABLE OF ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BECOME INCREASINGLY UNSETLED WITH SOME ACTIVE INTERVALS DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 16 OCTOBER - 18 OCTOBER

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 OCTOBER 233

PREDICTED 16-18 OCTOBER 234/234/235

90-DAY MEAN 15 OCTOBER 187

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 14 OCTOBER 05

ESTIMATED AFR/AP 15 OCTOBER 05/12

PREDICTED AFR/AP 16-18 OCTOBER 12/10 - 15/15 - 18/20

SOLTERWARN

BT