

HFUS 1 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 278

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 OCT 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. THE PRIMARY SOURCES OF ACTIVITY HAVE BEEN REGION 1320 (S12W07) AND FROM THE EAST LIMB NEAR S12-15 WHERE OLD REGION 1296 IS DUE TO RETURN. THAT LOCATION WAS THE SITE OF A PROMINENCE ERUPTION THAT PRODUCED TYPE II/III/IV RADIO EVENTS AT 05/0631 UT WITH A 10 CM BURST OF 73 F.U. AND NO SOFT X-RAY INCREASE. A BRIGHT SURGE NEAR THE SAME LOCATION AT 05/1943 UT WAS ACCOMPANIED BY A CLASS C9/M1 X-RAY EVENT. THERE WAS NO 10 CM RADIO BURST BUT 410 F.U. REPORTED AT 415 MHZ ALONG WITH TYPE III/V AND CONTINUUM. AN M-3 X-RAY EVENT AT 05/1110 UT WAS NOT REPORTED OPTICALLY. REGION 1320 HAS PRODUCED SEVERAL SUBFLARES WITH CLASS C X-RAY PEAKS. NO SPOTS ARE VISIBLE AT THE SOUTHEAST LIMB. AN H-TYPE SPOT HAS ROTATED ONTO THE DISK AT N14E83 THAT IS PROBABLY OLD REGION 1286. BOTH 1286 AND 1296 PRODUCED FLARES BELOW CLASS C THRESHOLD DURING THEIR PREVIOUS DISK TRANSIT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. THE SOUTHEAST LIMB REGION APPEARS TO BE A POTENTIAL SOURCE OF CLASS M FLARES. FLARES IN REGION 1320 HAVE A SMALL CHANCE OF REACHING CLASS M THRESHOLDS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AND IS EXPECTED TO REMAIN AT ABOUT THE SAME LEVEL THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 06 OCT - 08 OCT

CLASS M 50/50/50

CLASS X 10/15/15

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 OCT 140

PREDICTED 06-08 OCT 142/144/147

90-DAY MEAN 05 OCT 136

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 OCT 12

ESTIMATED AFR/AP 05 OCT 06/10

PREDICTED AFR/AP 06-08 OCT 10/10 - 10/10 - 10/10

SOLTERWARN

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SDF NUMBER 278

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 OCTOBER 1979

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS. REGION 2032 (N18E54) PRODUCED ANOTHER MAJOR FLARE: AN M9/2B EVENT WITH MAXIMUM AT 1209 UT. REGION 2019 (S25W78) PRODUCED AN M1/1B EVENT AT 1421 UT. ASSOCIATED WITH THE M9 EVENT WAS STRONG RADIO FLUX AT 2.45 MHZ (12000 FLUX UNITS), FOLLOWED ONE HOUR LATER BY STRONG FLUX AT 1415 MHZ (52000 F.U.).

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS. REGIONS 2032 AND 2030 (N27E41) HAVE SHOWN STEADY GROWTH IN BOTH SPOT AREA AND MAGNETIC COMPLEXITY, AND THIS SHOULD CONTINUE FOR THE NEXT FEW DAYS.

II. THE GEOMAGNETIC FIELD WAS QUIET TODAY AND NO SIGNIFICANT ACTIVITY IS FORECAST. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 06 OCTOBER - 08 OCTOBER

CLASS M 90/90/90

CLASS X 30/35/40

PROTON 15/20/25

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 OCT 198

PREDICTED 06 OCT - 08 OCT 200/203/206

90-DAY MEAN 05 OCT 180

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 OCT 08

ESTIMATED AFR/AP 05 OCT 03/07

PREDICTED AFR/AP 06 OCT - 08 OCT 07/12 09/15 09/15

SOLTERWARN