

HFUS 1 BOU 102200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 283
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS WITH ONLY MINOR CLASS C X-RAY FLARES OCCURRING. REGION 1320 (S12W72) STILL HAS PERSISTENT BRIGHT POINTS AND HAD A C8/SUBFLARE; HOWEVER IT HAS SIMPLIFIED MAGNETICALLY TO A BETA GAMMA CONFIGURATION. REGION 1342 (S17E58), A BETA GAMMA GROUP, POSSIBLY HAS A DELTA CONFIGURATION WITH SCATTERED PLAGE AND BRIGHT POINTS. REGION 1332 (S23W34) HAS BEEN QUIET THIS PERIOD WITH ONLY A SUBFLARE REPORTED; HOWEVER IT HAS A PRONOUNCED ARCH FILAMENT SYSTEM WITH AN APPARENT STRONG FLOW INTO THE LEADER PORTION OF THE GROUP. POINT BRIGHTENINGS AND PLAGE FLUCTUATIONS HAVE CONTINUED IN THE REGION TO NEAR FLARE INTENSITY.

IB. SOLAR ACTIVITY SHOULD REMAIN AT THE LOW TO MODERATE LEVEL FOR THE NEXT FORECAST PERIOD. REGION 1332 HAS THE HIGHEST POTENTIAL FOR M OR X-CLASS X-RAY EVENTS. REGIONS 1320 AND 1342 ALSO HAVE THE POTENTIAL TO PRODUCE ENERGETIC EVENTS; ESPECIALLY IF REGION 1320 DECAYS MORE RAPIDLY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND SHOULD REMAIN UNSETTLED TO QUIET FOR THE NEXT 24 HOURS. NO SIGNIFICANT EVENTS OCCURRED OVER THE LAST 50 HOURS OR CORONAL HOLES EVIDENT TO PRODUCE HIGHER GEOMAGNETIC ACTIVITY.

III. EVENT PROBABILITIES 11 OCTOBER - 13 OCTOBER

CLASS M	60/50/50
CLASS X	20/20/20
PROTON	20/20/20
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	10 OCTOBER 160
PREDICTED	11-13 OCTOBER 162/164/166
90-DAY MEAN	10 OCTOBER 136

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	09 OCTOBER 09
ESTIMATED AFR/AP	10 OCTOBER 10/17
PREDICTED AFR/AP	11-13 OCTOBER 10/15 - 12/20 - 08/12

SOLTERWARN

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JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 OCTOBER 1979

IA. SOLAR ACTIVITY WAS LOW DURING THE PAST 24 HOURS. ONLY SMALL C-CLASS SUBFLARES WERE OBSERVED, AND THESE WERE DISTRIBUTED AMONG SEVERAL REGIONS: 2030 (N25W23), 2032 (N15W17), 2036 (S14W33), 2038 (N12E09), AND NEW REGION 2045 (N30E60), WHICH WAS SEPARATED FROM REGION 2042. REGIONS 2046 (N14E70) AND 2047 (S12E67) ALSO APPEARED ON THE EAST LIMB BUT APPEAR TO BE SIMPLE AND INACTIVE.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE FOR THE NEXT 24 HOURS. REGIONS 2032 AND 2045 ARE THE ONLY ONES WITH SLIGHT MAGNETIC COMPLEXITY (BETA-GAMMA). REGION 2038 DISPLAYED SPOT GROWTH TODAY WHICH MAY LEAD TO INCREASED ACTIVITY.

II. THE ACTIVE GEOMAGNETIC CONDITIONS THAT BEGAN ON 06 OCTOBER SEEM TO BE SUBSIDING NOW. UNSETTLED CONDITIONS ARE FORECAST UNTIL ABOUT 13 OCTOBER, WHEN A MINOR STORM IS EXPECTED DUE TO A LARGE DISAPPEARING FILAMENT (N45W20) WHICH VANISHED ON 09 OCTOBER.

III. EVENT PROBABILITIES 11 OCTOBER - 13 OCTOBER

CLASS M 70/70/70

CLASS X 15/15/15

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 OCTOBER 210

PREDICTED 11-13 OCTOBER 212/214/216

90-DAY MEAN 10 OCTOBER 182

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 09 OCTOBER 24

ESTIMATED AFR/AP 10 OCTOBER 15/18

PREDICTED AFR/AP 11-13 OCTOBER 10/10 - 10/10 - 30/30

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