

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

BT

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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 A 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

SOLTERWARN

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