

HFUS 1 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE LAST 24 HOURS. ONLY
THREE C-CLASS SUBFLARES WERE REPORTED FROM THE 10 REGIONS ON THE
VISIBLE DISK. REGION 1320 (S 12E35) REMAINED MODERATELY COMPLEX
MAGNETICALLY BUT WAS RELATIVELY QUIET THIS PERIOD.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE. THE BEST FLARE
POSSIBILITIES ARE IN REGION 1320 AND REGION 1310 (N17W 15) WHICH
IS A LARGE REGION WHICH HAS SHOWN PREVIOUS ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE LAST 24
HOURS. CONDITIONS SHOULD REMAIN UNSETTLED FOR THE NEXT 3 DAYS,
APPROACHING ACTIVE LEVELS ON THE THIRD DAY.

III. EVENT PROBABILITIES 03 OCTOBER - 05 OCTOBER

CLASS M 30/30/30

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 OCTOBER 138

PREDICTED 03-05 OCTOBER 138/138/138

90-DAY MEAN 02 OCTOBER 136

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 OCTOBER 10

ESTIMATED AFR/AP 02 OCTOBER 09/14

PREDICTED AFR/AP 03-05 OCTOBER 10/13 - 08/10 - 15/20

SOLTERWARN

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SDF NUMBER 275

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. SUBFLARES HAVE BEEN OBSERVED FROM SEVERAL DIFFERENT REGIONS WITH THE LARGEST AN M2/SB OBSERVED BY ATHENS IN REGION 2027 (N14E15) AT 0939Z MAXIMUM. THIS EVENT WAS ACCOMPANIED BY MINOR RADIO BURSTS AND SHORT WAVE FADES UP TO 18 MHZ. REGIONS 2006 (N19W72), 2019 (S23W38), 2024 (S29E15), AND NEW REGIONS 2029 (N12E73), AND 2030 (N24E75) ALSO PRODUCED SUBFLARES DURING THE PERIOD. OF THESE, THE LARGEST WAS FROM REGION 2024, OBSERVED AS A SLOW-RISING, LONG DURATION C6/IN AT 144Z MAXIMUM. IN WHITE LIGHT, THIS REGION STILL RETAINS A SIMPLE BI-POLAR STRUCTURE.

IB. SOLAR ACTIVITY WILL REMAIN MODERATE DURING THE FORECAST PERIOD. REGION 2006 HAS THE STRONGEST POTENTIAL FOR SIGNIFICANT FLARES, ALTHOUGH IT WAS DISAPPOINTING DURING THE PAST 24 HOURS. REGION 2027 IS GROWING AND NOW CLASSIFIED AS A BETA-GAMMA-DELTA WITH ITS FLARE POTENTIAL INCREASING. REGION 2025 HAS BEEN DIVIDED INTO 2 GROUPS (REGION 2031 AT N12E52) BASED ON MT WILSON POLARITIES, WITH BOTH CONSISTING OF SIMPLE BI-POLAR GROUPS. NEW REGIONS 2029 AND 2030 HAVE COME OVER THE EAST LIMB WITH FLARE ACTIVITY AND COULD PROVE TO BE SIGNIFICANT REGIONS AS THEY COME MORE VISIBLE.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL 1500Z, WHEN SLIGHTLY DISTURBED CONDITIONS WERE OBSERVED. THE FIELD WILL REMAIN UNSETTLED THROUGH THE NEXT 2 DAYS, FOLLOWED BY QUIET CONDITIONS ON THE 5TH OF OCTOBER.

III. EVENT PROBABILITIES 03 OCTOBER - 05 OCTOBER

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 OCTOBER 211

PREDICTED 03-05 OCTOBER 205/200/195

90-DAY MEAN 02 OCTOBER 181

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 OCTOBER 07

ESTIMATED AFR/AP 02 OCTOBER 07/10

PREDICTED AFR/AP 03-05 OCTOBER 12/17 - 12/10 - 05/05

SOLTERWARN

BT