

HFUS 1 BOU 061300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 279A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 OCT 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
05/1200Z TO 06/1200Z:

SOLAR ACTIVITY REMAINS LOW BUT WITH INCREASED ACTIVITY REPORTED
IN THREE REGIONS. REGION 3375 (N13W39) PRODUCED SEVERAL SUB-
FLARES AND A C5/1B FLARE AT 0602Z WITH AN ASSOCIATED MINOR
RADIO BURST ON ALL FREQUENCIES. THE REGION HAS GROWN IN SPOT
COMPLEXITY AND SIZE. REGION 3380 (S15W65) REMAINS SMALL BUT
PRODUCED THREE SMALL FLARES DURING THE DAY. NEW REGION 3388
(S11E26) DEVELOPED VERY RAPIDLY ON THE DISK AND CONTRIBUTED A
M1 FLARE AT 2359Z AND A C4/1B AT 0700Z. THIS REGION IS IMPRES-
SIVE IN ITS RAPID GROWTH AND EARLY FLARE ACTIVITY. MINOR SURGING
AT S15, S25 AND N15 ON THE EAST LIMB INDICATE SMALL NEW REGIONS
WHICH SHOULD ROTATE ONTO THE DISK IN THE NEXT 24 HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CON-
TINUE AT A LOW LEVEL WITH REGIONS 3375 AND 3388 THE POSSIBLE
SOURCES OF CLASS M XRAY EVENTS DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. UN-
SETLED CONDITIONS ARE EXPECTED THE NEXT TWO DAYS BASED ON A
CORONAL HOLE WHICH PASSED CENTRAL MERIDIAN ON 04 OCT.

III. EVENT PROBABILITIES 07 OCT - 09 OCT

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

ECAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 OCT 199

ESTIMATED 06 OCT 197

PREDICTED 07-09 OCT 194/191/188

90 DAY MEAN 05 OCT 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 OCT 17 AP 05 OCT 009

ESTIMATED AFR 05 OCT 07 AFR/AP 06 OCT 006/008

PREDICTED AFR/AP 07-09 OCT 012/012 012/012 008/012

SOLTERWARN

BT

HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 279B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 06 OCTOBER 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 06/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW. NO SIGNIFICANT FLARES WERE OBSERVED DURING THIS PERIOD. REGIONS 3375 (N 13W44) AND 3388 (S 10E 16) ARE STILL THE MOST NOTICEABLE REGIONS ON THE DISK, BUT THEY WERE MOSTLY QUIET TODAY AND HAVE CEASED THEIR RAPID GROWTH PATTERNS DISPLAYED EARLIER TODAY.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS CONTINUED QUIET. UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 07 OCTOBER - 09 OCTOBER

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 OCTOBER 201

PREDICTED 07-09 OCTOBER 194/191/188

90-DAY MEAN 06 OCTOBER 213

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 05 OCTOBER 07/09

ESTIMATED AFR/AP 06 OCTOBER 06/11

PREDICTED AFR/AP 07-09 OCTOBER 12/12 - 12/12 - 08/12

SOLTERWARN

BT