

HFUS 1 BOU 241300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 083A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 24 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
23/1200Z TO 24/1200Z: SOLAR ACTIVITY HAS BEEN LOW. NUMEROUS C
CLASS FLARES HAVE BEEN OBSERVED FROM REGION 3659 (N11E57). A
BETTER BUT STILL FORESHORTENED LOOK AT THIS REGION INDICATES IT
IS NOT QUITE AS THREATENING AS PERCEIVED YESTERDAY. HOWEVER, A
DELTA CONFIGURATION MOST LIKELY EXISTS IN THE TRAILER OF THIS
GROUP AND MAGNETIC GRADIENTS ARE HIGH. PRELIMINARY INDICATIONS
ARE THAT 3659 IS NOT IN A GROWTH STAGE. REGION 3643 (S06W97) IS
MAKING AN ALMOST QUIET EXIT WITH SURGING VISIBLE AT THE WEST
LIMB. A SMALL NEW REGION EMERGED ON THE DISK AND WAS NUMBERED
3661 (N21E45). THERE ARE STILL INDICATIONS OF A REGION YET TO
ROTATE AROUND THE NORTHEAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BECOME
GENERALLY MODERATE WITH REGION 3659 BEING THE PRINCIPAL FLARE
PRODUCER. A MAJOR FLARE FROM THIS REGION IS POSSIBLE. MORE
PREVIOUSLY ACTIVE LONGITUDES ARE EXPECTED TO BEGIN RETURNING TO
THE EAST LIMB LATE ON 25 MARCH.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. THIS LEVEL OF ACTIVITY SHOULD CONTINUE FOR THE
NEXT THREE DAYS.

III. EVENT PROBABILITIES 25 MAR-27 MAR

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAR 204

ESTIMATED 24 MAR 200

PREDICTED 25 MAR-27 MAR 207/214/219

90 DAY MEAN 23 MAR 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 MAR 029 AP 23 MAR 009

ESTIMATED AFR 23 MAR 009 AFR/AP 24 MAR 009/010

PREDICTED AFR/AP 25 MAR-27 MAR 013/015-010/012-010/012

SOLTERWARN

BT

HXUS BOU 241300

PREDM 06025 06026 06027

PREDX 01025 01026 01027

PREDP 00125 00126 00527

PCAFT 00125

TENCM 20725 21426 21927

AFRED 01325 01026 01027

AFAPF 01525 01226 01227

KKK 22343 32233 33332

BT

HFUS 3 BOU 242200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 083B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 24 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ONLY C CLASS
XRAY, SUB CLASS OPTICAL EVENTS HAVE BEEN OBSERVED THIS PERIOD.
REGION 3659(N12E53) IS NOW AN E CLASS SPOT GROUP, MAGNETICALLY
COMPLEX WITH A DELTA OBSERVED. THE REGION CONTINUES TO GROW.
REGION 3662(S24E85) IS A NEW REGION OVER THE EAST LIMB TODAY.
IT PRODUCED A C6/0B FLARE AT 24/1732 WITH ASR> EJECTA TO .05R
ALL VISIBLE BEHIND A LARGE H TYPE SPOT. THIS MAY BE A RETURN
OF OLD REGION 3629. A C9 EVENT WITHOUT OPTICAL ASSOCIATION
OCCURRED AT 24/1958Z. SUBMAXIMA WERE OBSERVED OF C3 AND C8
BEFORE THE MAXIMUM FINALLY AT 2017Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW, INCREASING TO MODERATE LEVELS ONLY IF THE REGION 3659
PATTERN OF FREQUENT LOW LEVEL EVENTS IS BROKEN, OR IF NEW
REGION 3662 HAS SIGNIFICANT POTENTIAL. REGION 3662 IS TOO FAR
EAST FOR CAREFUL ANALYSIS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT LOW UNSETTLED LEVELS IN RECENT HOURS. IT IS EXPECTED TO
CONTINUE AT UNSETTLED LEVEL FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 MAR-27 MAR

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAR 190

PREDICTED 25 MAR-27 MAR 186/192/198

90 DAY MEAN 24 MAR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAR 008/009

ESTIMATED AFR/AP 24 MAR 010/010

PREDICTED AFR/AP 25 MAR-27 MAR 013/015-010/012-010/012

SOLTERWARN

BT

HXUS BOU 242200

PREDM 06025 06026 06027

PREDX 01025 01026 01027

PREDP 00125 00126 00127

PCAFT 00125

TENCM 18625 19226 19827

AFRED 01325 01026 01027

AFAPF 01525 01226 01227

BT