

HFUS 1 BOU 251300
FROM SPACE ENVIRONMENT SERVICES CENTER, POULDER, COLORADO
SDF NUMBER 084A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 25 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 25/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION
3659 (N11E47) PRODUCED AN M1/1B AT 24/2149UT AND AN M1/5B AT
25/0144UT. NEITHER FLARE PRODUCED SIGNIFICANT RADIO BURSTS.
THIS REGION EXHIBITS MULTIPLE DELTA CONFIGURATIONS AND A
COMPLEX NEUTRAL LINE. SUNSPOT AREAS BEING REPORTED FOR THIS
GROUP ARE INCREASING AND SINCE FORESHORTENING IS LESS A PROBLEM
TODAY, 3659 IS APPARENTLY GROWING. REGION 3662 (S24E80) WAS
NUMBERED TODAY AFTER A MULTUMBRAED LEADER BECAME VISIBLE.
SEVERAL LIMB FLARES HAVE BEEN OBSERVED FROM THIS REGION WHICH
IS EXHIBITING ACTIVE SURGING AND BRIGHT PLAGE. A LARGE PLAGE
AREA VISIBLE IN CA K AND GREATER THAN 17 DEGREES IN LATITUDINAL
EXTENT IS CROSSING THE LIMB AT NE21. NO SPOTS HAVE YET BEEN
OBSERVED IN THIS AREA.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
MODERATE FOR THE FORECAST PERIOD. REGION 3659 SHOULD PRODUCE AT
LEAST ONE CLASS M FLARE/DAY WITH MORE ENERGETIC FLARES BECOMING
INCREASINGLY POSSIBLE. NEW REGIONS TRAVERSING THE EAST LIMB
COULD ADD TO FULL DISK ACTIVITY LEVELS. FLARE POTENTIALS WILL
BE BETTER JUDGED ONCE MORE DATA ARE RECEIVED ON THESE REGIONS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TRENDING TOWARD ACTIVE. SOLAR WIND DATA INDICATE
THE EARTH IS IN A HIGH SPEED CORONAL HOLE WIND STREAM.
GENERALLY UNSETTLED CONDITIONS ARE FORECAST FOR THE NEXT THREE
DAYS WITH PERIODS AT ACTIVE LEVELS POSSIBLE DURING LOCAL NIGHT
ON 26 MARCH.

III. EVENT PROBABILITIES 26 MAR-28 MAR

CLASS M 80/80/80
CLASS X 15/20/20
PROTON 01/05/05
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAR 190
ESTIMATED 25 MAR 195
PREDICTED 26 MAR-28 MAR 200/210/220
90 DAY MEAN 24 MAR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 MAR 008 AP 24 MAR 010
ESTIMATED AFR 24 MAR 009 AFR/AP 25 MAR 016/018
PREDICTED AFR/AP 26 MAR-28 MAR 012/012-010/012-012/012

SOLTERWARN

BT

HXUS BOU 251300

PREDM 08026 08027 08028

PREDX 01526 02027 02028

PREDP 00126 00527 00528

PCAFT 00126

TENCM 20026 21027 22028

AFRED 01226 01027 01228

AFAPF 01226 01227 01228

KKK 33333 32223 33332

BT

HFUS 3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 084B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION
3659 (N12E40) PRODUCED AN M2/1B FLARE AT 25/1623Z WITH VERY
MODEST DISCRETE RADIO EMISSION AT ALL OBSERVED FREQUENCIES.
THIS EVENT WAS THE ONLY SIGNIFICANT ACTIVITY THIS PERIOD. NEW
REGIONS 3663 (S06E43) AND 3664 (S12E79) WERE NUMBERED TODAY.
REGION 3662 (S19E73) APPEARS SIMPLE WITH A N/S NEUTRAL LINE
AND APPEARS UNLIKELY TO PRODUCE MAJOR ACTIVITY. REGION 3659 HAS
VERY TIGHT MAGNETIC GRADIENTS, MULTIPLE DELTAS AND IS A
PROBABLE SOURCE OF MAJOR ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN
MODERATE WITH ACTIVITY EXPECTED MOSTLY FROM REGION 3659.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO ACTIVE, DUE TO HIGH SPEED STREAM INFLUENCE.
THE EFFECT IS SUBSIDING SLOWLY AND THE FIELD IS EXPECTED TO BE
UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 MAR-28 MAR

CLASS M 80/80/80

CLASS X 15/20/20

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 MAR 191

PREDICTED 26 MAR-28 MAR 195/200/204

90 DAY MEAN 25 MAR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 MAR 014/010

ESTIMATED AFR/AP 25 MAR 014/018

PREDICTED AFR/AP 26 MAR-28 MAR 012/012-010/012-012/012

SOLTERWARN

BT

HXUS BOU 252200

PREDM 08026 08027 08028

PREDX 01526 02027 02028

PREDP 00126 00527 00528

PCAFT 00126

TENCM 19526 20027 20428

AFRED 01226 01027 01228

AFAPF 01226 01227 01228

BT