

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/SB 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
 TENCN 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