

HFXS 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 UNSETLED. 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 12.7 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/C7B 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