

HFUS 1 BOU 271300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 086A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 27 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200Z TO 27/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
PAST 24 HOURS. THE LARGEST EVENT IN THIS PERIOD WAS A C9/SB IN
REGION 3659 (N12E19) AT 27/0210Z. MINOR CENTIMETRIC BURSTS
ACCOMPANIED THIS FLARE. REGION 3659 STILL RETAINS ITS COMPLEX
NEUTRAL LINE AND DELTA CONFIGURATION. REGION 3658 (S12E13)
PRODUCED A C6/1B AT 27/0409Z. SPOT GROWTH IS OCCURRING IN THE
TRAILER PORTION OF REGION 3658. THERE APPEARS TO BE SOME DEGREE
OF SYMPATHETIC FLARE RESPONSE BETWEEN THESE TWO REGIONS. NEW
FLUX IS EMERGING IN REGIONS 3653 (S13W32) AND 3660 (S16E28).
ALSO, A NEW REGION IS EMERGING NEAR N17W09 AND CULGOORA REPORTS
SPOTS ROTATING ON TO THE DISK NEAR NE25.

IB. SOLAR ACTIVITY FORECAST: DESPITE THE CURRENT LULL,
ENERGETIC FLARES ARE EXPECTED, PRIMARILY FROM REGION 3659,
DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS ARE
EXPECTED THROUGH 30 MARCH.

III. EVENT PROBABILITIES 28 MAR-30 MAR

CLASS M 80/80/80

CLASS X 15/10/10

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAR 195

ESTIMATED 27 MAR 202

PREDICTED 28 MAR-30 MAR 208/215/218

90 DAY MEAN 26 MAR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 MAR 017 AP 26 MAR 009

ESTIMATED AFR 26 MAR 009 AFR/AP 27 MAR 011/012

PREDICTED AFR/AP 28 MAR-30 MAR 014/015-014/015-012/012

SOLTERWARN

BT

HXUS BOU 271300

PREDM 08028 08029 08030

PREDX 01528 01029 01030

PREDP 00528 01029 01030

PCAAFT 00128

TENCM 20828 21529 21830

AFRED 01428 01429 01230

AFAPF 01528 01529 01230

KKK 22343 32233 34332

BT

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 0868

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 MARCH 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY

FROM 27/1200Z TO 27/2100Z:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3659 (N12E13) IS SLOWLY RESTRUCTURING AND HAS PRODUCED AN M4/2B IN THE PROCESS. THIS LONG LIVED EVENT MAXED AT 271420Z AND THE OPTICAL EVENT DID NOT END UNTIL 271547Z. SHORTWAVE FADES TO 22 MHZ, A 200 FLUX UNIT BURST AT 10CM AND WEAK TYPE IV SWEEP FREQUENCY EMISSION ACCOMPANIED THIS EVENT. THE DISK HAS BEEN QUIET SINCE THAT TIME. SEVERAL OF THE DISK FEATURES SHOW SLOW GROWTH BUT HAVE NOT YET ACQUIRED THE NECESSARY COMPLEXITY FOR SIGNIFICANT FLARE PRODUCTION. REGIONS 3665 (N08W33), 3666 (N19W15) AND 3667 (N18E63) WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD CONTINUE MODERATE. REGION 3659 SHOULD REMAIN A THREAT FOR ENERGETIC ACTIVITY FOR THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. NO CHANGE IS EXPECTED.

III. EVENT PROBABILITIES: 28 MARCH-30 MARCH

CLASS M 80/80/80

CLASS X 15/10/10

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 27 MARCH 198

PREDICTED 28-30 MARCH 202/206/210

90 DAY MEAN 27 MARCH 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 MARCH 09/09

ESTIMATED AFR/AP 27 MARCH 13/12

PREDICTED AFR/AP 28-30 MARCH 14/15 14/15 12/18

SOLTERWARN

BT