

HFUS 1 BOU 261300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 177A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 26 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200UT TO 26/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3170 (N13W10) REACHED
M4/1B MAXIMUM AT 25/2206Z. RADIO EMISSION ACROSS THE SPECTRUM
ACCOMPANIED THIS FLARE BUT AT LEVELS MUCH LOWER THAN DURING
PREVIOUS FLARES FROM THIS REGION. AN M1/5B MAXIMUM OCCURRED AT
26/0645. OTHER ACTIVITY INCLUDES AN M1/1B MAXIMUM AT 25/1749
FROM REGION 3178 (N18E46) AND FREQUENTLY RECURRENT LOW LEVEL
FLARES FROM REGION 3170, AS WELL AS MINOR EVENTS FROM REGIONS
3172 (S08E13), 3174 (N16W60), 3178 AND 3180 (S16E67). WITH
THE EXCEPTION OF REGIONS 3178 AND 3180 ALL REGIONS ARE IN
VISIBLE DECLINE. ACTIVE SURGING AT NE18 INDICATES A PROBABLE
NEW REGION ARRIVING. REGION 3170 STILL CONTAINS STEEP MAGNETIC
GRADIENTS AND RETAINS CONSIDERABLE COMPLEXITY. REGION 3180
MUST YET ROTATE TO FAVORABLE POSITION FOR MAG ANALYSIS. IT
APPEARS LARGE AND POSSIBLY COMPLEX. REGION 3178 IS A SIMPLE
BIPOLE BUT HAS PROVEN PRODUCTIVE OF ACTIVITY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN MODERATE APPROACHING HIGH LEVELS
DUE TO THE CAPABILITY OF REGION 3170 AND 3178 TO WHICH HAS
BEEN ADDED REGION 3180.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. ACTIVE TO HIGH UNSETTLED
LEVELS SHOULD CONTINUE FOR SEVERAL MORE HOURS. ACTIVITY SHOULD
RISE ONCE AGAIN, PROBABLY TO MINOR STORM LEVELS ON ABOUT 6/28
DUE TO EFFECTS OF RECENT FLARES.

III. EVENT PROBABILITIES: 27-29 JUNE

CLASS M 90/90/70

CLASS X 15/15/10

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 25 JUNE 178

ESTIMATED 26 JUNE 181

PREDICTED 27-29 JUNE 185/183/180

90 DAY MEAN 25 JUNE 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 JUNE 13 AP 25 JUNE 14

ESTIMATED AFR 25 JUNE 18 AFR/AP 26 JUNE 16/15

PREDICTED AFR/AP 27-29 JUNE 12/15 35/35 24/25

SOLTERWARN

BT

HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 177B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 0200UT 26 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200UT TO 26/2200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3170 (N13W19) REMAINS
COMPLEX AND ACTIVE. IT PRODUCED A C7/SN FLARE AT 26/1343UT AND
OTHER SMALLER FLARES. REGION 3170 AND REGION 3178 (N18E36)
HAD SB AND IN FLARES RESPECTIVELY WITH AN M2 XRAY EVENT AT
26/1807UT. REGION 3178 APPEARS TO BE GROWING SLIGHTLY. REGION
3180 (S16E60) PRODUCED A C5/SN FLARE AT 26/2025UT. THIS REGION
IS GROWING AND HAS A COMPLEX SPOT GROUP. A NEW LARGE STABLE
REGION 3181 (N18E22) ROTATED ONTO THE DISK TODAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN AT MODERATE LEVELS WITH MAJOR
FLARE POSSIBLE FROM REGIONS 3170, 3178 AND 3180.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THE PAST 12 HOURS.
UNSETTLED CONDITIONS ARE EXPECTED UNTIL 28 JUNE WHEN MINOR
STORM LEVELS ARE POSSIBLE DUE TO RECENT FLARE ACTIVITY.

III. EVENT PROBABILITIES: 27-29 JUNE

CLASS M 90/90/70

CLASS X 15/15/10

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 26 JUNE 188

PREDICTED 27-29 JUNE 191/194/194

90 DAY MEAN 26 JUNE 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 JUNE 18/14

ESTIMATED AFR/AP 26 JUNE 16/14

PREDICTED AFR/AP 27-29 JUNE 12/15 35/35 24/25

SOLTERWARN

BT