

HEUS 1 BOU 311300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDE NUMBER 2124

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 31 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
30/1200Z TO 31/1200Z

SOLAR ACTIVITY HAS INCREASED TO MODERATE LEVELS DURING THE PAST
24 HOURS. REGION 3234 (S12W43) PRODUCED A CLASS M XRAY EVENT AT
30/1630UT, AN M5/2P AT 30/2345UT AND A M2/SN AT 31/0053. ALL
OF THESE EVENTS, PLUS SEVERAL CLASS C/SUBFLARES WERE ASSOCI-
ATED WITH MODERATE RADIO BURSTS. RESTRUCTURING AND GROWTH IN THE
SPOT GROUP HAVE BEEN REPORTED IN THIS REGION. IT REMAINS VERY
COMPLEX AND ACTIVE. REGIONS 3237 (S02W30), 3239 (N12W32) AND
3247 (N17E37) ARE RELATIVELY SMALL BUT INTERESTING REGIONS WHICH
ARE CAPABLE OF PRODUCING MINOR FLARE ACTIVITY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS WITH CLASS
M, AND POSSIBLY LARGER, EVENTS FROM REGION 3234.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE
DURING THE PAST 24 HOURS. UNSETTLED CONDITIONS ARE EXPECTED
THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 01-03 AUGUST

CLASS M 90/80/80

CLASS X 25/25/25

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 30 JUL 204

ESTIMATED 31 JUL 196

PREDICTED 01-03 AUG 192/186/180

30 DAY MEAN 30 JUL 181

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 JULY 04 AP 30 JULY 13

ESTIMATED AFR 30 JULY 14 AFR/AP 31 JULY 12/15

PREDICTED AFR/AP 01-03 AUGUST 12/20 10/15 10/15

SOLTERWARN

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PREDICTED AFR/AP 01 - 03 AUGUST 12/20 10/15 10/15
SOLTERWARN

HFUS 3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 212B

JOINT UASF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 31 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/1200Z
TO 31/2100Z;

SINCE 1200Z REGION 3234 (S11W53) HAS RESTRICTED ITS ACTIVITY TO
C-CLASS FLARES. THE GRADUAL DECAY IN THE CENTRAL PORTIONS OF
THE REGION CONTINUES BUT SIGNIFICANT BIPOLAR STRUCTURE HAS
DEVELOPED OUT AHEAD OF THE LARGE LEADER. THE DELTA CONFIGURATION
IS NO LONGER VISIBLE YET THIS JUST BARELY SUBTRACTS FROM ITS
COMPLEXITY. NONE OF THE OTHER VISIBLE REGIONS WOULD APPEAR TO BE
A THREAT FOR MAJOR ACTIVITY AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST;

SOLAR ACTIVITY SHOULD BE AT MODERATE LEVELS DURING THE COMING
24 HOURS DUE TO THE DEVELOPMENT AND RESTRUCTURING IN 3234.

II. GEOPHYSICAL SUMMARY AND FORECAST;

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. GENERALLY UNSETTLED
CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES 01-03 AUG

CLASS M 80/80/80

CLASS X 25/25/25

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 JUL 192

PREDICTED 01-03 AUG 186/180/178

90-DAY MEAN 31 JUL 181

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 JUL 13/13

ESTIMATED AFR/AP 31 JUL 10/15

PREDICTED AFR/AP 01-03 AUG 12/20 - 10/15 - 10/15

SOLTERWARN

BT