

HFUS 1 BOU 301300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDR NUMBER 611A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 30 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/1200Z TO 30/1200Z:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 3234 (S12W31) HAS PRODUCED 10 CLASS C EVENTS, THE LARGEST A C8/1B AT 30/0942UT. THE REGION HAS NOT CHANGED SIGNIFICANTLY AND REMAINS VERY COMPLEX. REGION 3221 (S09W85) HAS NOT BEEN ACTIVE BUT ALSO REMAINS COMPLEX. REGIONS 3247 (N15E39) AND 3239 (N2W19) ARE SMALL BUT GROWING REGIONS WHICH HAVE PRODUCED SMALL CLASS C EVENTS TODAY. TWO VERY SMALL REGIONS UNNUMBERED, REGION 3251 (N19E14) AND REGION 3252 (N08E70).

IB. SOLAR ACTIVITY FORECAST:

MODERATE SOLAR ACTIVITY IS EXPECTED FROM REGION 3234 DURING THE NEXT 6 DAYS BECAUSE OF ITS COMPLEX STRUCTURE AND CONTINUING MINOR FLARE ACTIVITY. A MAJOR FLARE IS POSSIBLE FROM REGION 3234 OR REGION 3221 AS IT ROTATES BEYOND WEST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED AND IS EXPECTED TO REMAIN UNSETLED DURING THE FORECAST PERIOD. THE FLARE ACTIVITY ON 27 JULY HAS NOT PRODUCED THE EXPECTED DISTURBANCE IN THE GEOMAGNETIC FIELD.

III. EVENT PROBABILITIES: 31 JULY - 02 AUGUST

CLASS M 80/75/75

CLASS X 30/25/25

PROTON 25/20/20

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 29 JULY 207

ESTIMATED 30 JULY 197

PREDICTED 31 JULY-02 AUGUST 190/186/182

90 DAY MEAN 29 JULY 181

V. GEOMAGNETIC A INDICES

OBSERVED AFR 28 JULY 12 AP 29 JULY 08

ESTIMATED AFR 29 JULY 08 AFR/AP 30 JULY 14/20

PREDICTED AFR/AP 31 JULY - 02 AUGUST 15/30 12/20 10/15

SOLTERIWARN

BT

HEUS-3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDE NUMBER 211B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 JULY 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
30/1200Z TO 30/2100Z.

THE CURRENT LULL IN ACTIVITY WAS INTERRUPTED BRIEFLY BY AN M1
XRAY BURST AT 1630Z (MAX) FROM REGION 3234 (S12W37).
ALTHOUGH STILL COMPLEX, 3234 IS SHOWING MARKED FRAGMENTATION IN ITS
CENTRAL PORTIONS AND MAY BE TRENDING TOWARD DECAY. ACCORDING TO
MT. WILSON, REGION 3237 (S00N24) NOW HAS A DELTA CONFIGURATION IN
ITS LEADER WHICH RESULTED IN A RATHER STRONG GRADIENT BUT THE
REGION HAS BEEN QUIET. REGION 3239 (N12W26) HAS DEVELOPED IN
H-ALPHA AND IS MUCH BETTER STRUCTURED THAN YESTERDAY. THE SPOTS
IN 3239 REMAIN SMALL AND SPREAD OUT.

II. SOLAR ACTIVITY FORECAST:

REGION 3234 WILL REMAIN A THREAT FOR SIGNIFICANT ACTIVITY UNTIL
IT CROSSES WEST LIMIT.

III. GEOPHYSICAL SUMMARY AND FORECAST:

~~THIS~~ GEOMAGNETIC FIELD HAS BEEN UNSETLED TO SLIGHTLY ACTIVE. UNSETLED
TO ACTIVE CONDITIONS SHOULD CONTINUE.

IV. EVENT PROBABILITIES: 31 JULY TO 02 AUG

CLASS M 80/75/75

CLASS X 30/25/25

PROTON 25/20/20

PCAF YELLOW

V. OTTAWA, 0.7 FLUX

OBERVED 30 JULY

PREDICTED 31 JULY TO 02 AUG

90 DAY MEAN 30 JULY

VI. GEOMAGNETIC AL INDICES

OBERVED AFR/AP 29 JULY

ESTIMATED AFR/AP 30 JULY

PREDICTED AFR/AP 31 JULY TO 02 AUG

SOLTELMARN

PT

204

190/186/182

181

04/08

14/20

15/30 12/20 10/15