

HFUS 1 BOU 301300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDE NUMBER 211A

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 (S08W85) HAS NOT BEEN  
ACTIVE BUT ALSO REMAINS COMPLEX. REGIONS 3247 (N15E39) AND  
3239 (N12W19) ARE SMALL BUT GROWING REGIONS WHICH HAVE PRO-  
DUCED SMALL CLASS C EVENTS TODAY. TWO VERY SMALL REGIONS  
WERE NUMBERED, 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 UNSETTLED AND IS EXPECTED TO RE-  
MAIN UNSETTLED 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

SOLTERWARN

BT

HEUS 3 R011 302200

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

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 30 JULY 1981

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

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 (S02W24) 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.

IB. SOLAR ACTIVITY FORECAST:

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

II. GEOPHYSICAL SUMMARY AND FORECAST:

~~THE~~ GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE. UNSETTLED  
TO ACTIVE CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES: 31 JULY TO 02 AUG

CLASS M 80/75/75

CLASS X 30/25/25

PROTON 25/20/20

BCAF YELLOW

IV. OTTAWA 0.7 FLUX

OBSERVED 30 JULY

204

PREDICTED 31 JULY TO 02 AUG

190/186/182

90 DAY MEAN 30 JULY

181

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 JULY

04/08

ESTIMATED AFR/AP 30 JULY

14/20

PREDICTED AFR/AP 31 JULY TO 02 AUG

15/30 12/20 10/15

SOLTER:ARN

BT