

HFUS BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 205A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 24 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
23/1200Z TO 24/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE DURING THIS PERIOD. FIVE M-
CLASS EVENTS HAVE BEEN RECORDED, THE LARGEST A M3/1N OCCURRED
IN REGION 3234 (S13E47) AT 23/2324UT AND PRODUCED SOME MINOR
RADIO EVENTS. REGION 3234 ALSO PRODUCED A M1/1B AT 24/0752UT.
THIS EVENT HAD A WEAK TYPE II SWEEP AND A SHORT WAVE FADE TO
15 MHZ. REGION 3221 (S07W06) PRODUCED A M1/SB AT 23/2045UT.
REGION 3224 (N17W36) PRODUCED A M1/SN AT 24/0517UT. REGIONS
3221 AND 3234 HAVE BOTH CONTINUED TO SHOW SOME MINOR GROWTH.
REGION 3224 HAS CHANGED LITTLED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS.
REGIONS 3221, 3224 AND 3234 ARE LARGE COMPLEX REGIONS AND
PROVEN M-CLASS PRODUCERS, ANY RAPID CHANGE IN ANY OF THE REGIONS
COULD TRIGGER AN X-CLASS EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THIS PAST PERIOD. THE
FIELD IS EXPECTED TO BE UNSETTLED DURING THE FORECAST PERIOD.
REGIONS 3221 AND 3224 ARE IN FAVORABLE POSITIONS, IF A LARGE
EVENT OCCURS, TO PRODUCE PROTONS.

III. EVENT PROBABILITIES: 25-27 JULY

CLASS M 95/95/95

CLASS X 30/30/30

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 23 JULY 229

ESTIMATED 24 JULY 230

PREDICTED 25-27 JULY 230/230/225

90 DAY MEAN 23 JULY 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 JULY 23 AP 23 JULY 38

ESTIMATED AFR 23 JULY 28 AFR/AP 24 JULY 08/15

PREDICTED AFR/AP 25-27 JULY 12/15 12/15 12/15

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HEUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 205B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 24 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

24/1200Z TO 24/2100Z:

SOLAR ACTIVITY HAS BEEN LOW SINCE 24/1200Z. THE LARGEST EVENT THIS PERIOD WAS A C5/IB AT 24/1640Z FROM REGION 3221 (S07W11). REGION 3221, 3224 (N16W42), AND 3234 (S13E41) ALL STILL HAVE DELTA MAGNETIC CONFIGURATIONS AND REGION 3224 HAS INTENSIFIED ITS MAGNETIC GRADIENT. TWO NEW REGIONS WERE OBSERVED TODAY, 3240 (S16W31) AND 3241 (N13E03).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE FOR THE FORECAST PERIOD WITH A POSSIBILITY OF AN X-CLASS X-RAY EVENT OCCURRING IN REGIONS 3221, 3224, OR 3234.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TODAY AND IS EXPECTED TO REMAIN UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 25 - 27 JUL

CLASS M 95/95/95

CLASS X 30/30/30

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 24 JUL 250

PREDICTED 25-27 JUL 245/245/240

90 DAY MEAN 24 JUL 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 JUL 25/38

ESTIMATED AFR/AP 24 JUL 07/12

PREDICTED AFR/AP 25-27 JUL 12/15 12/15 12/15

SOLTERWARN

BT