

HFUS 1 BOU 241308
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 175A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 24 JUNE 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
23/1200UT TO 24/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3170 (N 14E 17) PROVIDED ACTIVITY CONSISTING OF AN M1/SB MAXIMUM AT 23/1744 WITH RADIO EMISSION ACROSS THE SPECTRUM INCLUDING 2600 FLUX UNITS AT ~695 MHZ, AND AN M1/1B MAXIMUM AT 24/0634 WITH RADIO EMISSION INCLUDING 290 FLUX UNITS AT 245 MHZ, 460 AT 2695 MHZ AND 990 AT 8800 MHZ. REGION 3178 (N 19E 72) PROVIDED AN M1/SN MAXIMUM AT 23/2054, AND AN M1/SN MAXIMUM AT 24/1120Z. POOR OBSERVING CONDITIONS HAVE LIMITED ANALYSIS. HOWEVER, REGION 3170 IS REPORTED AS A GROWING D CLASS GROUP OF AREA 1000. AND REGION 3178 IS A GROWING D CLASS GROUP OF AREA 300. REMAINING REGIONS ARE REPORTED STABLE OR DECLINING, AND ARE PROBABLY MINOR PROSPECTS FOR ACTIVITY.

I B. SOLAR ACTIVITY FORECAST:

CONTINUED MODERATE ACTIVITY MAY BE EXPECTED, MOSTLY FROM REGION 3170.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET. A RETURN TO UNSETLED TO POSSIBLY NEAR ACTIVE LEVELS MAY BE EXPECTED DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES: 25 - 27 JUNE

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 JUN 161

ESTIMATED 24 JUN 165

PREDICTED 25-27 JUN 165/165/165

90 DAY MEAN 23 JUN 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 JUN 06 AP 23 JUNE 09

ESTIMATED AFR 23 JUN 06 AFR/AP 24 JUNE 07/10

PREDICTED AFR/AP 25 JUNE 15/15 12/12 10/15

SOLTERWARN

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HFUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 175B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200 UT 24 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200 UT TO 24/2200 UT: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 10 HOURS. REGION 3170 (N14E09) IS GROWING IN COMPLEXITY AND PRODUCED FIVE SMALL EVENTS, THE LARGEST A C7/1B FLARE AT 24/2032 UT. REGION 3178 (N19E67) IS ALSO GROWING, ALTHOUGH IT IS NOT AS COMPLEX AS REGION 3170. IT PRODUCED THREE SMALL EVENTS, THE LARGEST A C8/1M FLARE AT 24/1532 UT. REGION 3167 (S27W45), A SMALL PREVIOUSLY INACTIVE REGION, PRODUCED A 1F FLARE AT 24/1814 UT AT THE SAME TIME AS SUBFLARES IN REGIONS 3170 AND 3178. ALL OTHER REGIONS ARE STABLE AND NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE THROUGHOUT THE FORECAST PERIOD WITH CLASS M EVENTS POSSIBLE FROM REGIONS 3170 AND 3178.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. UNSETLED TO NEAR ACTIVE CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 JUNE - 27 JUNE

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JUNE 169

PREDICTED 25-27 JUNE 171/173/175

90-DAY MEAN 24 JUNE 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 JUNE 05/09

ESTIMATED AFR/AP 24 JUNE 13/12

PREDICTED AFR/AP 25-27 JUNE 15/15 - 12/12 - 13/15

SOLIERWARN

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