

HFUS 1 BOU 211300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 202A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 21 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/1200Z TO 21/1200Z: SOLAR ACTIVITY REMAINS MODERATE BUT THE TOTAL NUMBER OF EVENTS HAS DECREASED SIGNIFICANTLY. REGION 3804 (N16W86) HAS PRODUCED ONLY TWO SMALL M-CLASS FLARES, AN M2/SN AT 2307Z AND AN M1/SN AT 1007Z. THE REGION APPEARS TO BE STABLE AS IT ROTATES BEYOND THE LIMB. REGION 3810 (N15W45) PRODUCED AN M3/1B FLARE AT 20/1250Z ALTHOUGH IT HAS BEEN LESS ACTIVE THAN YESTERDAY AND THE SPOT GROUP IS LESS COMPLEX. REGION 3812 (N20W42) IS ALSO DECAYING IN ACTIVITY AND COMPLEXITY. ALL OTHER REGION ARE STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO DECREASE FROM THE RECENT LEVELS OF FREQUENT M-CLASS FLARES BUT STILL REMAIN MODERATE AS REGION 3804 AND 3810 ROTATED BEYOND THE LIMB OVER THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. ACTIVE CONDITIONS ARE EXPECTED 22/23 JULY FROM THE DISAPPEARING FILAMENT AND X1 FLARE IN REGION 3804 ON 18/19 JULY.

III. EVENT PROBABILITIES 22 JUL-24 JUL

CLASS M 80/60/40

CLASS X 20/10/05

PROTON 20/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JUL 190

ESTIMATED 21 JUL 170

PREDICTED 22 JUL-24 JUL 158/144/130

90 DAY MEAN 20 JUL 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 JUL 021 AP 20 JUL 025

ESTIMATED AFR 20 JUL 018 AFR/AP 21 JUL 010/010

PREDICTED AFR/AP 22 JUL-24 JUL 025/020-025/020-015/020

SOLTERWARN

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HF US 3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SPF NUMBER 202

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 220 Z 21 JUL 1982

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
21/1200Z TO 21/2100Z: SOLAR ACTIVITY HAS CONTINUED MODERATE WITH
TWO M-CLASS EVENTS BEING OBSERVED THIS PERIOD. A M3/NO OPTICAL
AT 1620UT AND A M3/SN AT 1814UT. THIS EVENT HAD A ERUPTIVE
FLARE ENGIN BEG 100 TODAY IS 3822 (SIZE 5.8)
SIMPLE H TYPE.

B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE MODERATE UNTIL 24 JULY WHEN LOW CONDITIONS ARE
EXPECTED TO RETURN. REGION 3810 CONTINUES TO DECAY AND ONLY
SMALL EVENTS ARE EXPECTED FROM THIS REGION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETLED THIS PERIOD. ACTIVE CONDITIONS ARE EXPCTED FOR
THIS FORECAST PERIOD DUE TO THE DISAPPEARING FILAMENT AND X1
EVENTS OF 18/19 JULY.

III. JUEVENT PROBABILITIES 22 JUL-2

CLASS M 30/60/40

CLASS X 20/10/05

PROTON 20/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JUL 178

PREDICTED 22 JUL-24 JUL 158/144/130

90 DAY MEAN 21 JUL 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 JUL 015/025

ESTIMATED AFR/AP 21 JUL 008/010

PREDICTED AFR/AP 22 JUL-24 JUL 025/020-025/020-015/020

SLETERWARN

BT