

HFUS 1 BQU 1081400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 098A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 08 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
07/1200UT TO 08/1200UT:

SOLAR ACTIVITY HAS BEEN LOW. CLASS C XRAY EVENTS WITH ASSOC-
IATED SUBFLARES AND WEAK RADIO BURSTS HAVE BEEN REPORTED IN ALL
THE FOLLOWING REGIONS. REGION 3027 (N19E23) HAS BEEN STABLE
AND MAY BE BEGINNING TO DECAY, BUT IT STILL CONTAINS A WEAK DELTA
CONFIGURATION. REGIONS 3025 (N09W06), 3026 (N09E08), 3031
(N05W24), 3033 (N20E62) AND 3035 (N13E80) ALL HAVE BRIGHT FLUCU-
ATING PLACES AND ARE GROWING REGIONS. A SMALL REGION 3021
(S 0W18) IS GROWING RAPIDLY. SURGE ACTIVITY AT S05 EAST LIMB
INDICATES A SMALL REGION WILL BE VISIBLE LATER TODAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST
PERIOD. REGION 3027 IS THE MOST LIKELY SOURCE OF CLASS M EVENTS
BUT REGIONS 3025, 3026, 3031, 3033, AND 3035 MAY ALSO PRODUCE
ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THE PAST 24 HOURS. UNSET-
TLED CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 09 - 11 APRIL

CLASS M .5/75/75

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 07 APR 242

ESTIMATED 08 APR 250

PREDICTED 09-11 APR 255/245/240

90 DAY MEAN 07 APR 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 APR 11 / AP 07 APR 10

ESTIMATED AFR 07 APR 10 AFR/AP 08 APR 11/11

PREDICTED AFR/AP 09-11 APR 10/12 12/12 12/12

SOLTERWARN

BT

HFUS 3 BOU 082200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 098B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 08 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
08/1200UT TO 08/2200UT:

SOLAR ACTIVITY REACHED MODERATE LEVELS WITH AN M5/2B EVENT
FROM REGION 3025 (N08W15) AT 1654UT. THIS EVENT WAS A
TENFLARE (270 FU AT 2695 MHZ), BUT THERE WAS NO TYPE II/IV.
THE BACKGROUND XRAY FLUX WAS STILL AT M-LEVELS AT THE END
OF THIS PERIOD. REGION 3035 (N15E67) PRODUCED TWO M1 EVENTS
EARLIER IN THE PERIOD, AT 1253UT AND 1326UT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS.
SEVERAL REGIONS ARE CAPABLE OF M CLASS ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS FORECAST TO
REMAIN UNSETTLED UNTIL 11 APRIL, WHEN ACTIVE CONDITIONS ARE
POSSIBLE, DUE TO THE M5 EVENT TODAY.

III. EVENT PROBABILITIES: 09-11 APRIL

CLASS M 75/75/75

CLASS X 01/01/01

PROTON 01/01/01

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 08 APR 269

PREDICTED 09-11 APR 275/280/280

90 DAY MEAN 08 APR 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 APR 11/10

ESTIMATED AFR/AP 08 APR 11/11

PREDICTED AFR/AP 09-11 APR 12/12 12/12 15/15

SOLTERWARN

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