

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 ASSOCIATED 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 FLUCUATING 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. UNSETTLED 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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