

WFUS 1 BOU 091400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 099A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2000UT 09 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

08/1200UT TO 09/1200UT:

SOLAR ACTIVITY HAS INCREASED TO MODERATE LEVELS. THE XRAY BACK-
GROUND LEVEL WAS ENHANCED MOST OF THE DAY BEGINNING AT 08/1653UT
WITH AN M5/2B FLARE AND 270 EU RADIO BURST AT 2695 MHZ IN REGION
3025 (N08W21). THE SPOT GROUP IN THIS REGION HAS GROWN RAPIDLY
IN THE TRAILER PORTION SINCE YESTERDAY. REGION 3035 (N15E61) PRO-
DUCED AN M1/SB AT 08/1253UT, AN M1 WITH ASSOCIATED LOOP PRO-
MINENCE SYSTEM AT 08/1326UT, AN M1/SB AT 09/0947UT AND 15 SMALL
FLARES THROUGHOUT THE DAY. THIS REGION CONTAINS A COMPLEX GROWING
SPOT GROUP AND IS NOT YET COMPLETELY VISABLE. REGION 3027 (N19E11)
CONTINUES TO SHOW SIGNS OF SLIGHT DECAY BUT IT IS STILL THE
LARGEST SPOT GROUP ON THE DISK. REGIONS 3026 (N09W05) AND 3031
(N05W36) ARE GROWING COMPACT REGIONS WHICH ALSO PRODUCED NUMEROUS
SUBFLARES TODAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY WILL REMAIN MODERATE WITH A CLASS X EVENT POSSIBLE
FROM REGION 3025 OR 3035 AND ALL OF THE ABOVE REGIONS CAPABLE
OF CLASS M LEVEL ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. UNSETTLED CONDITIONS
ARE EXPECTED TO CONTINUE WITH A SLIGHT INCREASE LATE ON 11 APRIL
RELATED TO THE FLARE ACTIVITY ON 08/09 APRIL.

III. EVENT PROBABILITIES: 10-12 APRIL

CLASS M 85/85/85

CLASS X 05/05/05

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 08 APRIL 269

ESTIMATED 09 APRIL 275

PREDICTED 10-12 APRIL 280/280/275

90 DAY MEAN 08 APRIL 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 APRIL 11 AP 08 APRIL 10

ESTIMATED AFR 08 APRIL 12 AFR/AP 09 APRIL 12/12

PREDICTED AFR/AP 10-12 APRIL 12/12 15/15 15/18

SOLTERWARN

BT

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 099B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 09 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

09/1200UT TO 09/2200UT:

SOLAR ACTIVITY REMAINED AT MODERATE LEVELS, WITH BACKGROUND X-RAY LEVELS NEAR THE M1 LEVEL MOST OF THE DAY. THE LARGEST EVENT WAS AN M4/1B AT 1712UT FROM REGION 3035 (N11E55), WITH TWO OR THREE OTHER REGIONS FLARING AT ABOUT THE SAME TIME. THE SUN WAS ACTIVE DURING THIS PERIOD IN THE RADIO WAVELENGTHS, WITH A TENFLARE FROM REGION 3025 (N09W25) AT 1849UT AND SEVERAL OTHER MINOR RADIO BURSTS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH. REGIONS 3025, 3035, 3026 (N08E00), AND 3031 (N06W33) ARE ALL CAPABLE OF M-CLASS OR X-CLASS ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS FORECAST TO REMAIN UNSETTLED UNTIL 11-13 APRIL, WHEN FLARE-RELATED ACTIVE CONDITIONS ARE LIKELY.

III. EVENT PROBABILITIES: 10-12 APRIL

CLASS M 95/95/95

CLASS X 20/20/20

PROTON 15/20/20

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 09 APR 273

PREDICTED 10-12 APR 280/280/275

90 DAY MEAN 09 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 APR 13/10

ESTIMATED AFR/AP 09 APR 12/12

PREDICTED AFR/AP 10-12 APR 12/12 15/15 18/18

SOLTERWARN

BT