

HFUS 1 BOU 301400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 089A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1200UT 30 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

29/1200UT TO 30/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. AN M3/2N EVENT OCCURRED  
IN REGION 2993 (N14W75), MAXIMUM AT 30/0054Z. 460 FLUX UNITS  
OF 2695 MHZ RADIO NOISE ACCOMPANIED THE EVENT, AND POST FLARE  
LOOPS WERE OBSERVED TO .14 SR. REGION 2993 HAS SHOWN FURTHER  
DECLINE AND THE LATEST EVENT MAINTAINING M LEVEL XRAY FOR MORE  
THAN THREE HOURS, MAY HAVE ENDED ITS SIGNIFICANCE. CURRENTLY  
16 SPOTTED REGIONS ARE VISIBLE ON THE SOLAR DISK. REGION 2999  
(S43W32) APPEARS THE MOST COMPLEX, WITH THE GREATEST PROBABILITY  
FOR SIGNIFICANT ACTIVITY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY MAY BE EXPECTED TO REMAIN AT MODERATE LEVELS,  
PRIMARILY DUE TO REGION 2999. SEVERAL REGIONS 2993, 3001 (N21W26),  
3009 (N25E44), AND 3011 (S04E57) ARE ALSO LIKELY TO PRODUCE LESS  
ENERGETIC ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN INTERMITTENTLY ACTIVE. MOSTLY  
UNSETTLED CONDITIONS TO NEAR ACTIVE LEVELS ARE LIKELY THROUGH  
THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 31 MAR - 02 APRIL

CLASS M 60/60/60

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 MAR 215

ESTIMATED 30 MAR 215

PREDICTED 31 MAR-02 APR 212/210/210

90 DAY MEAN 29 MAR 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR 28 MAR 14 AP 29 MAR 19

ESTIMATED AFR 29 MAR 15 AFR/AP 30 MAR 12/15

PREDICTED AFR/AP 31 MAR-02 APR 15/20 15/20 16/15

SOLTERWARN

BT

HFUS 3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 089B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 30 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

30/1200UT TO 30/2200UT:

SOLAR ACTIVITY HAS BEEN LOW WITH ONLY C CLASS EVENTS REPORTED SINCE 1200 UT. REGION 2999 (S42W39) REMAINS COMPLEX AND IS GROWING SLIGHTLY. THERE ARE CURRENTLY 20 SPOT GROUPS VISIBLE. SIX SMALL-NEW GROUPS WERE NUMBERED TODAY. REGIONS 3014 (N15E32), 3015 (S07W58), 3016 (N19W13), 3018 (S22W02), 3019 (N17E77).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS. PRIMARILY DUE TO REGION 2999.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN INTERMITTENTLY ACTIVE. UNSETTLED TO NEAR ACTIVE CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD. A SMALL PARTICLE EVENT BEGAN AT 0900 UT AND HAS REMAINED AT ABOUT 10 PARTICLES/CM2/STER AT GT10 MEV SINCE THAT TIME. THIS EVENT IS MOST LIKELY FROM THE M3/2N FLARE AT 30/0054 UT. THE PARTICLE COUNT IS EXPECTED TO DECLINE SLOWLY OVER THE NEXT 24 HOURS.

III. EVENT PROBABILITIES: 31 MARCH - 02 APRIL

CLASS M 60/60/60

CLASS X 02/02/02

PROTON 02/02/02

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 30 MAR 209

PREDICTED 31 MAR-02 APR 212/210/210

90 DAY MEAN 30 MAR 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 MAR 14/19

ESTIMATED AFR/AP 30 MAR 13/19

PREDICTED AFR/AP 31 MAR-02 APR 15/20 15/20 16/15

SOLTERWARN

BT