

HFUS 1 BOU 281400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 087A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 28 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

27/1200UT TO 28/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE WITH AN M1/OB FLARE FROM REGION 2999 (S43W09) AT 28/0538Z MAX. AND AN UNASSOCIATED M1 AT 28/0415Z MAX. REGION 2999 REMAINS COMPLEX MAGNETICALLY AND CONTAINS A STRONG DELTA. IT ALSO DISPLAYED AFS AND CONTINUES TO GROW IN WHITE LIGHT. REGION 2993 (N14W59) REMAINS COMPLEX WITH MULTIPLE DELTAS AND HAS SHOWN SIGNIFICANT DECAY IN WHITE LIGHT. REGION 2993 IS IN A FAVORABLE POSITION TO SEND PARTICLES EARTHWARD IN THE CASE OF AN EVENT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD CONTINUE MODERATE DUE TO ACTIVITY FROM REGION 2999, AND FROM POSSIBLE ACTIVITY ASSOCIATED WITH THE DECLINE OF REGION 2993 AND FROM REGIONS JUST ARRIVING OVER THE EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. IT IS EXPECTED TO REMAIN AT UNSETTLED LEVELS DUE TO MODEST INFLUENCE FROM RECENT SOLAR ACTIVITY.

III. EVENT PROBABILITIES: 29-31 MARCH

CLASS M 70/60/60

CLASS X 05/02/02

PROTON 05/02/02

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 27 MARCH 198

ESTIMATED 28 MARCH 195

PREDICTED 29-31 MARCH 192/188/183

90 DAY MEAN 27 MARCH 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 MARCH 29 AP 27 MARCH 15

ESTIMATED AFR 27 MARCH 14 AFR/AP 28 MARCH 13/20

PREDICTED AFR/AP 29-31 MARCH 12/20 10/15 10/10

SOLTERWARN

BT

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 087B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 28 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
28/1200UT TO 28/2200UT:

SOLAR ACTIVITY HAS BEEN LOW. REGION 2993 (N14W57) PRODUCED THE  
LARGEST EVENT, A C6/IB FLARE AT 28/1508Z WITH AN ASSOCIATED VERY  
WEAK RADIO BURST. REGION 2999 (S43W13) IS GROWING RAPIDLY AND  
CONTAINS A STRONG DELTA CONFIGURATION IN THE SPOT GROUP.  
FIVE NEW REGIONS WERE NUMBERED TODAY. REGION 3007 (N17W33),  
3008 (N15E33), 3009 (N25E63), 3010 (N04E67), 3011 (S04E74). NONE  
OF THESE REGIONS HAVE PRODUCED FLARE ACTIVITY. AN ERUPTIVE  
PROMINENCE WAS OBSERVED AT N12 EAST LIMB FROM 28/1505-1555Z.  
IT EXTENDED TO A MAXIMUM OF 0.29 RADII.

IB. SOLAR ACTIVITY FORECAST:

MODERATE SOLAR ACTIVITY IS EXPECTED, WITH CLASS M EVENTS POSSIBLE  
FROM REGION 2999 AND REGION 2993.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED TO  
REMAIN UNSETTLED.

III. EVENT PROBABILITIES: 29-31 MARCH

CLASS M 70/60/60

CLASS X 05/02/02

PROTON 05/02/02

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 28 MARCH 202

PREDICTED 29-31 MARCH 205/210/210

90 DAY MEAN 28 MARCH 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 MARCH 16/15

ESTIMATED AFR/AP 28 MARCH 11/14

PREDICTED AFR/AP 29-31 MARCH 12/20 10/15 10/10

SOLTERWARN

BT