

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 RE-
MAIN 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