

HFUS 1 BOU 141400

FROM SPACE ENVIRONMENT SERVICES CENTER . BOULDER . COLORADO

SDF NUMBER 045A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 14 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY

FROM 13/1200UT TO 14/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. REGIONS 2930 (N12W44) AND 2943

(N11E29) HAVE BEEN THE PRINCIPAL SOURCES OF ACTIVITY. 2930

PRODUCED A C5/1B WITH 2600 FLUX UNITS OF 245MHZ RADIO NOISE AT

13/1945Z (MAX). 2943 PRODUCED A C6/SN AT 14/0810Z (MAX).

2930 IS STILL COMPLEX ALTHOUGH REORGANIZATION HAS BEEN OBSERVED,

AND THE MAGNETIC DELTA MAY HAVE DISAPPEARED. THE COMBINATION

OF REGIONS 2943, 2945 (N13E49), AND 2941 (N19E30) MAY BE INTER-

ACTIVE AND SHOWS POSSIBILITY OF FURTHER ACTIVITY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN AT MODERATE TO LOW LEVELS, WITH

NEARLY ALL ACTIVITY ASSOCIATED WITH REGION 2930 AND THE COMPLEX

OF REGIONS 2941, 2943, 2945.

II. GEOPHYSICAL SUMMARY AND FORECAST:

GEOMAGNETIC FIELD HAS DROPPED TO QUIET LEVELS WITHIN THE

PERIOD. GEOMAGNETIC ACTIVITY SHOULD REMAIN AT OR NEAR QUIET

LEVELS.

III. EVENT PROBABILITIES: 15-17 FEB

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 13 FEB 203

ESTIMATED 14 FEB 205

PREDICTED 15-17 FEB 206/206/202

90 DAY MEAN 13 FEB 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 FEB 08 AP 13 FEB 07

ESTIMATED AFR 13 FEB 05 AFR/AP 14 FEB 06/10

PREDICTED AFR/AP 15-17 FEB 06/10 08/08 08/08

SOLIERWARN

BT

HFUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 045B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 14 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
14/1200UT TO 14/2200UT:

SOLAR ACTIVITY HAS DECLINED TO A LOW LEVEL. REGION 2930 (N11W50)
CONTINUES TO HAVE POINT BRIGHTENINGS WITH VERY SMALL X RAY
RESPONSES. IT PRODUCED A SB FLARE AT 1607Z. REGION 2942 (S20E26)
ALSO PRODUCED A SB FLARE AT 1605Z. THESE TWO FLARES WERE ACCOM-
PANIED BY A WEAK RADIO BURST BUT NO X RAY EVENT. ALL OTHER
REGIONS REMAIN QUIET.

IB. SOLAR ACTIVITY FORECAST:

MODERATE SOLAR ACTIVITY IS EXPECTED DURING THE FORECAST PERIOD.
REGIONS 2930, 2941 AND 2943 APPEAR CAPABLE OF PRODUCING CLASS
M LEVEL EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. THE
FIELD IS EXPECTED TO REMAIN QUIET TO SLIGHTLY UNSETTLED DURING
THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 15-17 FEB

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 14 FEB 205

PREDICTED 15-17 FEB 206/206/202

90 DAY MEAN 14 FEB 198

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 13 FEB 07/07

ESTIMATED AFR/AP 14 FEB 06/06

PREDICTED AFR/AP 15-17 FEB 06/10 08/08 08/08

SOLTERWARN

BT