

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 245 MHZ 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 INTERACTIVE 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 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 UNSETLED 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

09

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