

HFUS 1 BOU 121400  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 043A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1200UT 12 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
11/1200UT TO 12/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. AN UNASSOCIATED M1 WAS THE  
PRINCIPAL EVENT OF THE PERIOD, OCCURRING AT 11/2258Z (MAX).  
C CLASS ACTIVITY INCLUDING C9/SN AT 12/0435Z (MAX) CAME MOSTLY  
FROM REGION 2927 (N04W45). REGION 2930 (N12W18) HAS RESUMED  
ACTIVITY WITH A VERY SLOW RESPONSE EVENT INCLUDING 1N FLARE,  
WITH XRAY MAXIMA C3 AT 0920Z, C7 AT 0933 AND 1004, C9 AT 1050  
AND LASTING MORE THAN 120 MINUTES. OBSERVATIONS HAVE BEEN  
EXTREMELY LIMITED, BUT 2930 IS REPORTED STILL COMPLEX AND A  
NEW REGION AT N15, WITH SURGING AND ACTIVE PROMINENCE IS AN-  
NOUNCING ARRIVAL ON THE EAST LIMB. REGION 2937 (S18W21) HAS  
REGAINED SPOTS, DISPLAYED AN AFS EARLY ON 12 FEB, AND APPEARS  
INCREASINGLY COMPLEX.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY MAY BE EXPECTED TO BE AT MODERATE LEVELS DUE  
TO REGION 2930 AND PERHAPS WITH CONTRIBUTIONS FROM NEW REGIONS  
AND FROM 2937.

II. GEOPHYSICAL SUMMARY AND FORECAST:

GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED TO NEAR QUIET. UN-  
SETTLED TO NEAR ACTIVE LEVELS SHOULD OCCUR ABOUT 13 FEBRUARY  
ASSOCIATED WITH THE DISAPPEARANCE OF A FILAMENT ON 09 FEBRUARY.

III. EVENT PROBABILITIES: 13-15 FEB

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 11 FEB 191

ESTIMATED 12 FEB 198

PREDICTED 13-15 FEB 202/206/210

90 DAY MEAN 11 FEB 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR 10 FEB 04 AP 11 FEB 08

ESTIMATED AFR 11 FEB 07 AFR/AP 12 FEB 08/10

PREDICTED AFR/AP 13-15 FEB 14/14 10/10 08/10

SOLTERWARN

BT

HFUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 043B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 12 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

12/1200UT TO 12/2200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. AN M1 XRAY EVENT OCCURRED AT 1245Z ACCOMPANIED BY A WEAK RADIO BURST BUT IT WAS NOT OBSERVED OPTICALLY. REGION 2930 (N11W25) REMAINS COMPLEX, WITH A DELTA CONFIGURATION IN A F TYPE SPOT GROUP. IT HAS PRODUCED 3 SMALL SUBFLARES AND NUMEROUS POINT BRIGHTENINGS SINCE 1200Z. TWO NEW REGIONS WERE NUMBERED, REGION 2944 (S20W22) AND 2945 (N13E71). REGION 2945 IS SMALL BUT MAY STILL BE PARTIALLY BEHIND EAST LIMB.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. CLASS M EVENTS ARE POSSIBLE FROM REGION 2930 AND PERHAPS FROM NEW REGION 2945.

II. GEOPHYSICAL SUMMARY AND FORECAST:

GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED TO NEAR QUIET. UNSETTLED TO NEAR ACTIVE LEVELS SHOULD OCCUR ABOUT 13 FEBRUARY ASSOCIATED WITH THE DISAPPEARANCE OF A FILAMENT ON 09 FEBRUARY.

III. EVENT PROBABILITIES: 13-15 FEB

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 12 FEB 199

PREDICTED 13-15 FEB 202/206/210

90 DAY MEAN 12 FEB 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 FEB 09/08

ESTIMATED AFR/AP 12 FEB 09/10

PREDICTED AFR/AP 13-15 FEB 14/14 10/10 08/10

SOLTERWARN

BT