

HFUS 1 BOU 241300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 055A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 24 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
23/1200Z TO 24/1200Z: SOLAR ACTIVITY INCREASED TO THE MODERATE  
LEVEL WITH THE OCCURRENCE OF AN M1.9 AT 24/0703Z MAXIMUM.  
SEVERAL OBSERVATORIES WERE SEEING DURING THE PERIOD OF THE  
FLARE, BUT SAW NO VISIBLE DISK FLARE. THE SLOW RISE/DECAY OF  
THE X-RAY EVENT INDICATES IT WAS FROM BEHIND THE LIMB. A REPORT  
OF AN APR AT S04 EAST LIMB AT THE APPROXIMATE TIME OF THE X-RAY  
BURST COULD INDICATE THE FLARE WAS FROM AN ACTIVE REGION JUST  
BEYOND THE EAST LIMB. REGION 3625 (N14E75) IS NOW THE MOST  
COMPLEX OF THE DISK REGIONS (WITH THE WEST LIMB ROTATION OF  
REGION 3607) DISPLAYING A COMPACT D-CLASS SPOT GROUP AND  
FREQUENT FLUCTUATIONS AND SURGING. REGION 3613 (N06W03) IS  
GROWING SLOWLY AND MAY START PRODUCING SMALL FLARES IN THE NEAR  
FUTURE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
GENERALLY LOW, BUT REGION 3625 AND THE PROSPECTS OF AN ACTIVE  
REGION ROTATING OVER EAST LIMB SHOULD CONTRIBUTE TO A GRADUAL  
INCREASE IN M-CLASS FLARE PRODUCTION DURING THE FORECAST  
PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS  
AGAIN ACTIVE FOR THE PAST 24 HOURS. THE BOULDER K-INDEXES  
VARIED FROM A 2 TO A 5 FOR THE 24/03-06Z PERIOD. UNSETTLED TO  
ACTIVE CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD,  
INCREASING SLOWLY TOWARDS THE END OF THE PERIOD.

III. EVENT PROBABILITIES 25 FEB-27 FEB  
CLASS M 40/50/60  
CLASS X 05/05/10  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 23 FEB 177  
ESTIMATED 24 FEB 187  
PREDICTED 25 FEB-27 FEB 192/195/197  
90 DAY MEAN 23 FEB 201

V. GEOMAGNETIC A INDICES  
OBSERVED AFR 22 FEB 028 AP 23 FEB 026  
ESTIMATED AFR 23 FEB 020 AFR/AP 24 FEB 018/024  
PREDICTED AFR/AP 25 FEB-27 FEB 012/015-015/020-015/015  
SOLTERWARN  
BT

HXUS BOU 241300  
PREDM 04025 05026 06027  
PREDX 00525 00526 01027  
PREDP 00125 00126 00127  
PCAFT 00125  
TENCM 19225 19526 19727  
AFRED 01225 01526 01527  
AFAPF 01525 02026 01527  
KKK 32233 32223 34332  
BT

KBOT

HFUS 3 BOU 242200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 055B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 200Z 24 FEBRUARY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
24/1200Z TO 24/2100Z:

SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST CLASS C EVENTS HAVE  
BEEN DIVIDED BETWEEN REGION 3613 (N06W09) AND 3625 (N15E66).  
REGION 3613 HAS GROWN SLIGHTLY AND ITS MAGNETIC INVERSION  
LINE IS ORIENTED NEARLY EAST-WEST, AN ACTIVE ASPECT. REGION  
3625 IS NOW SEEN AS A SMALL CLASS D SPOT GROUP WITH A BRIGHT  
AND SLIGHTLY COMPLEX PLAGE. ADDITIONAL PLAGE, SURGES AND BRIGHT  
RADIO CORONA FOLLOW THIS REGION AT THE LIMB.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH SMALL CLASS  
M EVENTS FROM REGION 3625 AND POSSIBLY FROM REGION(S) YET TO  
ROTATE INTO VIEW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS QUIETED FROM ACTIVE TO UNSETTLED  
CONDITIONS. A RESUMPTION OF ACTIVE CONDITIONS IS EXPECTED ON  
26 FEBRUARY DUE TO A HIGH-SPEED SOLAR WIND STREAM.

III. EVENT PROBABILITIES: 25-27 FEBRUARY

CLASS M 40/50/60

CLASS X 05/05/10

PROTON 01/01/01

POAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 24 FEBRUARY 183

PREDICTED 25-27 FEBRUARY 192/197/202

90 DAY MEAN 24 FEBRUARY 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 FEB 22/26

ESTIMATED AFR/AP 24 FEB 19/24

PREDICTED AFR/AP 25-27 FEB 12/15 15/20 15/15

SOLTERWARN

BT