

HFUS 1 BOU 021300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 092A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 02 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE  
PAST 24 HOURS DUE TO AN M1/SB, M4/1B, AND AN M6/2B, ALL FROM  
REGION 3659(N11W62). THE LAST TWO PRODUCED SIGNIFICANT RADIO  
EMISSION. DECAY IN THIS REGION IS CLEARLY EVIDENT, ALTHOUGH IT  
HAS NOT YET LOST ALL OF ITS FEATURES INDICATIVE OF CONTINUED  
ACTIVITY. OTHER REGIONS HAVE MADE NO SIGNIFICANT CONTRIBUTION  
TO SOLAR ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE MODERATE FOR TWO MORE DAYS UNTIL REGION 3659 ROTATES  
OVER THE WEST LIMB ON 5 APRIL. HOWEVER, AN X-CLASS X-RAY EVENT  
CANNOT BE RULED OUT SHOULD REGION 3659 DECAY EXPLOSIVELY WHILE  
STILL POSSESSING SIGNIFICANT FLARE POTENTIAL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD  
REACHED MINOR STORM CONDITIONS AT THE END OF 1 APRIL FOLLOWING  
A SMALL SUDDEN COMMENCEMENT AT 1305 UT. THE FIELD IS EXPECTED  
TO REMAIN AT MINOR STORM TO ACTIVE CONDITIONS THROUGH 2 APRIL,  
BECOMING ACTIVE FOR THE NEXT THREE DAYS DUE LARGELY TO RECENT  
M-CLASS FLARES.

III. EVENT PROBABILITIES 03 APR-05 APR

CLASS M 70/60/40

CLASS X 15/10/10

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 APR 174

ESTIMATED 02 APR 165

PREDICTED 03 APR-05 APR 155/150/145

90 DAY MEAN 01 APR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 MAR 018 AP 01 APR 013

ESTIMATED AFR 01 APR 013 AFR/AP 02 APR 030/035

PREDICTED AFR/AP 03 APR-05 APR 017/020-015/015-013/020

SOLTERWARN

BT

HXUS BOU 021300

PREDM 07003 06004 04005

PRFDX 01503 01004 01005

PREDP 01003 00504 00505

PCAF 00203

TENCM 15503 15004 14505

AFRED 01703 01504 01805

AFAPF 02003 01504 02005

KKK 43343 32333 44332

BT

HFUS 3 BOU 022200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 092B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 02 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
02/1200Z TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE  
PAST NINE HOURS. ACTIVITY HAS BEEN RESTRICTED TO C-CLASS  
SUBLEARES. OF THESE EVENTS OBSERVED ALL HAVE BEEN FROM REGION  
3659 (N11W68). SEVERAL C-CLASS X-RAY EVENTS WERE NOT OBSERVED  
DUE TO WEATHER AT THE SITES. REGION 3659 SHOWS SIGNIFICANT  
WHITE LIGHT DECAY ESPECIALLY IN THE LEADER PORTION OF THE  
REGION, BUT STILL RETAINS A WEAK DELTA CONFIGURATION IN THE  
SMALL LEADER SPOTS AND A STRONGER DELTA IN THE LARGE SYMMETRIC  
TRAILER SPOT. TWO NEW REGIONS WERE NUMBERED TODAY, REGION 3672  
(N08E43) AND 3673 (N08E80). BOTH ARE SIMPLE REGIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
RETURN TO THE MODERATE LEVEL WITH M-CLASS FLARES PROBABLE FROM  
REGION 3659 PRIOR TO ITS LIMB TRANSIT. THE REMAINING DISK  
REGIONS ARE ONLY CAPABLE OF C-CLASS EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT ACTIVE LEVELS SINCE THE MINOR STORM CONDITIONS OBSERVED  
EARLY IN THE UT DAY. A SLOW SETTLING TREND HAS BEEN NOTICED  
DURING THE PAST 6 HOURS IN MID-LATITUDE K VALUES, BUT ACTIVITY  
IS EXPECTED TO INCREASE DURING THE NIGHT TIME HOURS. ACTIVE  
LEVELS SHOULD CONTINUE THROUGH THE FORECAST PERIOD IN RESPONSE  
TO THE RECENT FLARE ACTIVITY.

III. EVENT PROBABILITIES 03 APR-05 APR

CLASS M 70/60/40

CLASS X 15/10/05

PROTON 10/05/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 APR 174

PREDICTED 03 APR-05 APR 165/155/150

90 DAY MEAN 02 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 APR 014/013

ESTIMATED AFR/AP 02 APR 028/035

PREDICTED AFR/AP 03 APR-05 APR 017/020-015/015-018/020

SOLTERWARN

BT

HXUS BOU 022200

PREDM 07003 06004 04005

PREDX 01503 01004 00505

PREDP 01003 00504 00105

PCAF 00203

TENCM 16503 15504 15005

AFRED 01703 01504 01805

AFAPF 02003 01504 02005

PT