

HFUS 1 BOU 041300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 094A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 04 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS BEEN BARELY MODERATE.  
C CLASS SUBFLARES HAVE BEEN OBSERVED THIS PERIOD WITH  
OCCASIONAL DISCRETE RADIO BURSTS UNTIL THE LATE HOURS OF THE  
PERIOD. REGION 3662(S19W52) IS A STABLE RELATIVELY  
INSIGNIFICANT APPEARING REGION WHICH HAS PRODUCED TWO 1B  
FLARES, A C5/1B AT 04/0341Z AND A C9/1B AT 04/0800Z. REGION  
3659 (N11W88), THE ONLY REGION TO APPEAR CAPABLE OF MAJOR  
ACTIVITY SEEMS TO BE LEAVING THE DISK QUIETLY. UNTIL GROWTH  
TAKES PLACE OR NEW REGIONS ROTATE ONTO THE DISK, THERE APPEARS  
TO BE LITTLE PROSPECT OF MAJOR ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY MAY BE EXPECTED TO  
DECLINE TO LOW LEVELS. ANOTHER MAJOR FLARE FROM REGION 3659  
IS A DIMINISHING POSSIBILITY DURING DEPARTURE FROM THE VISIBLE  
DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT MINOR STORM LEVELS IN RECENT HOURS, HAVING DECLINED  
FROM EARLIER MAJOR STORM CONDITIONS. ACTIVE TO UNSETTLED  
LEVELS SHOULD OCCUR AS THIS DECLINE CONTINUES. FURTHER FLARE  
RELATED DISTURBANCE SHOULD REACTIVATE THE FIELD TO MINOR STORM  
LEVELS BRIEFLY DURING 5 APRIL.

III. EVENT PROBABILITIES 05 APR-07 APR

CLASS M 50/40/30

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 APR 170

ESTIMATED 04 APR 168

PREDICTED 05 APR-07 APR 171/173/178

90 DAY MEAN 03 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 APR 036 AP 03 APR 043

ESTIMATED AFR 03 APR 031 AFR/AP 04 APR 020/015

PREDICTED AFR/AP 05 APR-07 APR 020/020-012/012-012/012

SOLTERWARN

BT

HXUS BOU 241300

PREDM 05005 04006 03007

PREDX 00505 00106 00107

PREDP 00105 00106 00107

PCAF 00105

TENCM 17105 17306 17807

AFRED 02005 01206 01207

AFAPF 02005 01206 01207

KKK 33344 33333 43332

BT

HFUS 3 BOU 042200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 094B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 04 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
04/1200Z TO 04/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3659  
(N13WL) PRODUCED THE LARGEST EVENT OF THE PERIOD WITH A BRIGHT  
SURGE ON THE LIMB FROM 1555Z-1725Z TO A MAXIMUM OF .43 SOLAR  
RADII AT 1628Z. REGION 3674 (S07W11) HAS ENDED ITS RAPID GROWTH  
PHASE. IT HAS NOT BEEN ACTIVE SINCE YESTERDAY EXCEPT FOR A  
C6/1N FLARE AT 04/1400Z ALONG AN ACTIVE FILAMENT. A VERY SMALL  
NEW REGION DEVELOPED ON THE DISK, 3677 (S11E09). THE SPOTS  
WHICH APPEARED TO BE THE TRAILER PORTION OF REGION 3673  
(N07E51) HAVE BEEN SEPERATED INTO NEW REGION 3678 (N09E64)  
BASED ON MAGNETIC ANALYSIS OF THE REGIONS. NO OTHER SIGNIFICANT  
ACTIVITY HAS BEEN REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW WITH NONE OF THE REGIONS CURRENTLY ON THE DISK  
CAPABLE OF MAJOR FLARE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED SINCE 1200Z. ACTIVE CONDITIONS ARE EXPECTED 5  
APRIL FROM RECENT FLARE ACTIVITY IN REGION 3659.

III. EVENT PROBABILITIES 05 APR-07 APR

CLASS M 50/40/30

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 APR 158

PREDICTED 05 APR-07 APR 156/156/158

90 DAY MEAN 04 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 APR 032/043

ESTIMATED AFR/AP 04 APR 019/020

PREDICTED AFR/AP 05 APR-07 APR 020/020-012/012-012/012

SOLTERWARN

BT

HXUS BOU 042200

PREDM 05005 04006 03007

PREDX 00505 00106 00107

PREDP 00105 00106 00107

PCAF 00105

TENCM 15605 15606 15807

AFRED 02005 01206 01207

AFAPF 02005 01206 01207

BT