

HFUS 1 BOU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 119A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 29 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
28/1200Z TO 29/1200Z: SOLAR ACTIVITY CONTINUED AT LOW LEVELS  
UNTIL NEAR THE END OF THIS PERIOD (29/1121Z), WHEN AN M2/1B  
XRAY EVENT OCCURRED IN REGION 3703 (N20W61). THE NORTHWEST  
COMPLEX OF REGIONS (WHICH INCLUDES 3703) IS DECAYING NOW AND IS  
NOT EXPECTED TO PRODUCE ANY MORE SIGNIFICANT FLARE ACTIVITY  
BEFORE ROTATING PAST WEST LIMB IN 2-3 DAYS. REGION 3714  
(S18E40) IS THE ONLY REGION HAVING ANY MAJOR FLARE  
POSSIBILITIES. THIS REGION IS STILL GROWING AND AN ARCH  
FILAMENT SYSTEM IS STILL PRESENT. NO NEW REGIONS WERE ADDED  
TODAY TO THE SEVEN REGIONS CURRENTLY ON THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
AT MOSTLY LOW LEVELS. ANY M-CLASS XRAY ACTIVITY SHOULD BE VERY  
ISOLATED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE FOR THE LAST 48 HOURS. ACTIVITY RELATED TO A SOLAR  
CORONAL HOLE PASSAGE AND 27-DAY RECURRENCE BOTH SUGGEST  
CONTINUED ACTIVE CONDITIONS FOR AT LEAST 48 HOURS MORE.

III. EVENT PROBABILITIES 30 APR-02 MAY

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 APR 163

ESTIMATED 29 APR 160

PREDICTED 30 APR-02 MAY 155/150/148

90 DAY MEAN 28 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 APR 021 AP 28 APR 022

ESTIMATED AFR 28 APR 019 AFR/AP 29 APR 020/025

PREDICTED AFR/AP 30 APR-02 MAY 019/018-014/012-014/020

SOLTERWARN

BT

HXUS BOU 291300

PREDM 03030 03001 03002

PREDX 00130 00101 00102

PREDP 00130 00101 00102

PCAFT 00130

TENCM 15530 15001 14802

AFRED 01930 01401 01402

AFAPF 01830 01201 02002

KKK 33334 44334 33333

BT

HFUS 3 BOU 292200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 119B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 29 APR 1982  
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
29/1200Z TO 29/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST  
NINE HOURS. DECAY CONTINUES TO BE OBSERVED IN SOME OF THE  
REGIONS IN THE NORTHWEST QUADRANT. THE GROWTH IN REGION 3714  
(S18E34) APPEARS TO HAVE CEASED AND THE MIXED POLARITY TRAILER  
IS SIMPLIFYING. A SMALL NEW REGION EMERGED AT S12W55 AND WAS  
NUMBERED 3715.  
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE  
LOW. NO SIGNIFICANT REGIONS ARE EXPECTED TO RETURN TO THE EAST  
LIMB FOR THE NEXT THREE DAYS. HOWEVER, THESE LONGITUDES HAVE  
HISTORICALLY BEEN ACTIVE AND REGION EMERGENCE MAY HAVE OCCURRED  
IN THIS AREA DURING THE PAST TWO WEEKS.  
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD  
CONTINUES ACTIVE. ACTIVE CONDITIONS SHOULD PREVAIL UNTIL MIDDAY  
ON 1 MAY. UNSETTLED LEVELS SHOULD THEN BE EXPERIENCED FOR THE  
DURATION OF THE FORECAST PERIOD.  
III. EVENT PROBABILITIES 30 APR-02 MAY  
CLASS M 30/30/20  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN  
IV. OTTAWA 10.7 CM FLUX  
OBSERVED 29 APR 153  
PREDICTED 30 APR-02 MAY 145/138/138  
90 DAY MEAN 29 APR 199  
V. GEOMAGNETIC A INDICES  
OBSERVED AFR/AP 28 APR 018/022  
ESTIMATED AFR/AP 29 APR 021/025  
PREDICTED AFR/AP 30 APR-02 MAY 019/018-014/012-012/012  
SOLTERWARN  
BT

HXUS BOU 292200  
PREDM 03030 03001 02002  
PREDX 00130 00101 00102  
PREDP 00130 00101 00102  
PCAFT 00130  
TENCM 14530 13801 13802  
AFRED 01930 01401 01202  
AFAPF 01830 01201 01202  
BT