

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