

HFXUS 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 M2/1E 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

HFXUS 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

HFXUS 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