

HFUS 1 BOU 281300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 118A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 28 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS CONTINUED AT LOW
LEVELS, WITH LESS THAN A DOZEN C-CLASS XRAY EVENTS DURING THE
LAST 24 HOURS. THE COMPLEX OF REGIONS IN THE NORTHWEST (ABOUT
N15W40) REMAINS INTERESTING, BUT RELATIVELY QUIET. NEW REGION
3714 (S18E53) HAS SHOWN GOOD GROWTH IN THE PAST 12 HOURS AND
HAS ALREADY PRODUCED SEVERAL SUBFLARES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE AT LOW LEVELS, UNLESS REGION 3714 DEVELOPS INTO A
SIGNIFICANT FLARE PRODUCER. THERE ARE NO OTHER NEW REGIONS
EXPECTED AT THE EAST LIMB, SO SOLAR INDICES SHOULD CONTINUE TO
DECLINE AS THE NORTHWEST COMPLEX APPROACHES WEST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE DURING THE PAST 24 HOURS. THE EFFECTS OF A
DISAPPEARING FILAMENT (PLUS 27-DAY RECURRENCE) SHOULD KEEP
THESE LEVELS OF ACTIVITY PRESENT FOR MOST OF THE TIME DURING
THE NEXT 48-72 HOURS.

III. EVENT PROBABILITIES 29 APR-01 MAY

CLASS M	40/30/20
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	27 APR	165
ESTIMATED	28 APR	160
PREDICTED	29 APR-01 MAY	155/150/147
90 DAY MEAN	27 APR	201

V. GEOMAGNETIC A INDICES

OBSERVED	AFR	26 APR	008	AP 27 APR	022
ESTIMATED	AFR	27 APR	019	AFR/AP 28 APR	022/025
PREDICTED	AFR/AP	29 APR-01 MAY	020/015-019/018-012/012		

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BT

HXUS BOU 281300
PREDM 04029 03030 02001
PREDX 00129 00130 00101
PREDP 00129 00130 00101
PCAFT 00129
TENCM 15529 15030 14701
AFRED 02029 01930 01201
AFAPF 01529 01830 01201
KKK 33343 32233 34433
BT

HFUS 3 BOU 282200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 118B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 28 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
28/1200Z TO 28/2100Z: SOLAR ACTIVITY CONTINUES LOW. REGION 3714
(S18E47) HAS CONTINUED TO GROW AND SLIGHTLY MIXED POLARITIES
ARE NOW VISIBLE IN ITS TRAILER. SEVERAL CLASS C SUBFLARES HAVE
BEEN OBSERVED IN THIS REGION. DATA FROM SEVERAL OBSERVATORIES
SHOW GENERAL DECAY IN THE COMPLEX OF REGIONS IN THE NORTHWEST
QUADRANT. THE DELTA CONFIGURATION SHARED BY REGIONS 3707
(N11W50) AND 3702 (N14W47) NO LONGER EXISTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
GENERALLY LOW. FREQUENT SUBFLARING FROM REGION 3714 IS
EXPECTED. THE POSSIBILITY FOR AN ISOLATED DECAY PHASE CLASS M
FLARE FROM THE NORTHWEST QUADRANT EXISTS. NO SIGNIFICANT ACTIVE
REGIONS ARE EXPECTED TO RETURN TO THE EAST LIMB DURING THE
FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
CONTINUES AT ACTIVE LEVELS. ACTIVE CONDITIONS SHOULD PREVAIL
FOR THE NEXT TWO DAYS WITH 1 MAY QUIETING TO UNSETTLED LEVELS.

III. EVENT PROBABILITIES 29 APR-01 MAY

CLASS M 40/30/20

CLASS X 01/01/01

PROTON 01/01/01 /o

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 APR 163

PREDICTED 29 APR-01 MAY 160/155/150

90 DAY MEAN 28 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 APR 021/022

ESTIMATED AFR/AP 28 APR 020/025

PREDICTED AFR/AP 29 APR-01 MAY 020/015-019/018-012/012

SOLTERWARN

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HXUS BOU 282200

PREDM 04029 03030 02001

PREDX 00129 00130 00101

PREDP 00129 00130 00101

PCAFT 00129

TENCM 16029 15530 15001

AFRED 02029 01930 01201

AFAPF 01529 01830 01201

BT