

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

SOLTERWARN

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 UNSETLED LEVELS.

III. EVENT PROBABILITIES 29 APR-01 MAY

CLASS M 40/30/20

CLASS X 01/01/01

PROTON 01/01/01 /0

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

BT

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
AFAPP 01529 01830 01201
BT