

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 UNSETTLED 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  
 TENCN 16029 15530 15001  
 AFRED 02029 01930 01201  
 AFAPF 01529 01830 01201  
 BT