

HFUS 1 BOU 131300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 103A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 13 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
12/1200Z TO 13/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE  
PAST 24 HOURS WITH ONLY MINOR C-CLASS FLARE ACTIVITY. THE  
LARGEST EVENT OBSERVED DURING THIS PERIOD WAS A C5/SB FLARE IN  
REGION 3684 (S26E06) AT 12/1613Z MAXIMUM. SLOW DECAY AND SLIGHT  
RESTRUCTURING MARKS THIS UNIMPRESSIVE REGION. THE INTERACTION  
BETWEEN REGIONS 3688 (N16W16) AND 3679 (N12W12) HAS RESULTED IN  
MINOR SUBFLARE PRODUCTION IN THE TRAILER PORTION OF 3688 WHERE  
OPPOSITE POLARITY SPOTS ARE CONVERGING. GROWTH AND EMERGING  
FLUX CONTINUE IN THE CENTRAL AND LEADING PORTION OF 3688,  
MAKING IT THE MOST IMPRESSIVE OF THE DISK REGIONS. REGION 3687,  
A REVERSE POLARITY GROUP AT S10E26 HAS PRODUCED MINOR SUBFLARE  
ACTIVITY AS ITS COMPLEXITY INCREASES. REGION 3671 (N07W85)  
CONTINUES ACTIVE AS IT ROTATES OVER WEST LIMB, PRODUCING BRIGHT  
SURGES AND LOOP STRUCTURES DURING THE PAST FEW HOURS. A LARGE  
H-TYPE SPOT IS TRANSITING EAST LIMB AT N02 AND COULD BE THE  
RETURN OF OLD SESC REGION 3652 (N03, CAR 037) WHICH WAS  
INACTIVE LAST ROTATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW. REGION 3688 APPEARS TO BE THE ONLY DISK REGION  
CAPABLE OF M-CLASS ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT LOW ACTIVE TO UNSETTLED LEVELS FOR THE PAST 24 HOURS.  
UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE  
FORECAST PERIOD. A LARGE BUSHY FILAMENT LOCATED BETWEEN N30W40  
AND N55W20 (11/1400Z) DISAPPEARED SOMETIME BEFORE 12/1500Z. A  
SLIGHT GEOMAGNETIC RESPONSE IS POSSIBLE BY THE END OF THE  
PERIOD IF THIS FILAMENT DID IN FACT ERUPT.

III. EVENT PROBABILITIES 14 APR-16 APR

CLASS M 50/50/50  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 APR 178  
ESTIMATED 13 APR 176  
PREDICTED 14 APR-16 APR 179/182/186  
90 DAY MEAN 12 APR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 11 APR 035 YAP 12 APR 015  
ESTIMATED AFR 12 APR 014 AFR/AP 13 APR 015/012  
PREDICTED AFR/AP 14 APR-16 APR 010/012-008/012-008/013  
SOLTERWARN

BT

HXUS BOU 131300  
PREDM 05014 05015 05016  
PREDX 00114 00115 00116  
PREDP 00114 00115 00116  
PCAFT 00114  
TENCM 17914 18215 18616  
AFRED 01014 00815 00816  
AFAPF 01214 01215 01316  
KKK 33233 22222 33222  
BT

HFUS 3 BOU 132200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 103B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 13 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
13/1200Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH NO EVENTS  
EXCEEDING C2 INTENSITY. REGION 3679/3688(N12W20) DOMINATES THE  
DISK WITH ITS COMPLEX BUT MODEST SPOT GROUP. SMALL NEW GROUPS  
HAVE APPEARED AT S05W39 (REGION 3693), N23E15(REGION 3694) AND  
N05E73(REGION 3695). NO SIGNIFICANT GROWTH HAS BEEN REPORTED IN  
RECENT HOURS. EAST LIMB IS QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW. AN ISOLATED SMALL CLASS M EVENT IS POSSIBLE FROM  
REGION 3688 OR EVEN REGION 3675(S14W61) SOMETIME IN THE NEXT  
THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN QUIET FOR THE PAST NINE HOURS. CONDITIONS ARE EXPECTED TO  
REMAIN MOSTLY QUIET UNTIL THE THIRD DAY OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 14 APR-16 APR

CLASS M 50/40/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APR 170

PREDICTED 14 APR-16 APR 168/165/160

90 DAY MEAN 13 APR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 APR 013/015

ESTIMATED AFR/AP 13 APR 010/012

PREDICTED AFR/AP 14 APR-16 APR 010/012-008/012-012/013

SOLTERWARN

BT

HXUS BOU 132200

PREDM 05014 04015 03016

PREDX 00114 00115 00116

PREDP 00114 00115 00116

PCAFT 00114

TENCM 16814 16515 16016

AFRED 01014 00815 01216

AFAPF 01214 01215 01316

BT