

HFUS 1 BOU 281300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 209A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 28 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. A C2 EVENT AT 1118Z WAS THE LARGEST XRAY BURST IN OVER 65 HOURS! ONLY ONE SPOTTED REGION IS ON THE VISIBLE SOLAR DISK: REGION 3828 (N06E36) IS A SMALL CLASS D GROUP WITH NO INDICATION OF FURTHER GROWTH. NO SIGNIFICANT REGIONS ARE EXPECTED TO APPEAR AT EAST LIMB IN THE NEXT THREE DAYS, BUT THE RADIO EAST-WEST SCAN PROMISES A SMALL REGION.

IB. SOLAR ACTIVITY FORECAST: ACTIVITY IS EXPECTED TO CONTINUE VERY LOW FOR THE NEXT THREE DAYS. MINOR FLUX EMERGENCE AND/OR THE APPEARANCE OF MINOR ACTIVITY AT EAST LIMB IS EXPECTED TO GIVE A SLIGHT RISE IN SOLAR INDICES BY THE END OF THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: ACTIVE GEOMAGNETIC CONDITIONS CONTINUED THROUGHOUT THE PAST 24 HOURS. HIGH SOLAR WIND VELOCITIES INDICATE THE SOURCE OF THIS ACTIVITY CONTINUES TO BE THE LARGE CORONAL HOLE IN THE SOLAR NORTHERN HIGH LATITUDES. ACTIVITY IS EXPECTED TO DIMINISH TO THE QUIETEST LEVELS OF THE MONTH WITHIN THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 29 JUL-31 JUL

CLASS M 05/05/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 JUL 095

ESTIMATED 28 JUL 094

PREDICTED 29 JUL-31 JUL 097/100/105

90 DAY MEAN 27 JUL 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 JUL 028 AFR 27 JUL 032

ESTIMATED AFR 27 JUL 017 AFR/AP 28 JUL 018/025

PREDICTED AFR/AP 29 JUL-31 JUL 010/015-006/010-006/010

SOLTERWARN

BT

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 209B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
28/1200Z TO 28/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW.

ONLY TWO SPOTTED REGIONS ARE CURRENTLY VISIBLE. REGION 3829  
(N06E29) HAS STABILIZED AS A SMALL CLASS D GROUP. A SMALL  
COMPACT PLAGE HAS ROTATED ONTO THE DISK AT S12E78. NO SPOTS ARE  
VISIBLE AT THIS LOCATION AS YET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE AT  
VERY LOW LEVELS. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO  
RETURN TO THE EAST LIMB DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD  
CONTINUES AT ACTIVE LEVELS IN RESPONSE TO A CORONAL HOLE  
RELATED HIGH SPEED SOLAR WIND STREAM. ACTIVE LEVELS ARE NOW  
EXPECTED TO CONTINUE INTO 29 JULY. UNSETTLED TO QUIET  
GEOMAGNETIC CONDITIONS ARE FORECAST FOR 30-31 JULY.

III. EVENT PROBABILITIES 29 JUL-31 JUL

CLASS M 05/05/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JUL 094

PREDICTED 29 JUL-31 JUL 097/100/105

90 DAY MEAN 28 JUL 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 JUL 020/032

ESTIMATED AFR/AP 28 JUL 021/025

PREDICTED AFR/AP 29 JUL-31 JUL 015/015-006/010-006/010

SOLTERWARN

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HXUS BOU 282200

PREDM 00529 00530 01031

PREDX 00129 00130 00131

PREDP 00129 00130 00131

PCAFT 00129

TENCM 09729 10030 10531

AFRED 01529 00630 00631

AFAPF 01529 01030 01031

BT