

HFUS 1 BOU 071300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 188A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 07 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY- FROM  
06/1200Z TO 07/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST  
24 HOURS. REGION 3802 (S17E34) PROVIDED MOST OF THE OBSERVED  
ACTIVITY INCLUDING A C5/SB DOUBLE-RIBBON FLARE WHICH MAXED AT  
07/0418Z. REGION 3802 CONTAINS A VERY ACTIVE DARK FILAMENT AND  
CONTINUES SLOW GROWTH INCLUDING A STRENGTHENING MAGNETIC FIELD  
GRADIENT. NEW REGION 3803 (N10E69) IS NOW SEEN TO BE A  
DEVELOPING C-TYPE GROUP WHICH HAS PRODUCED SOME MINOR FLARE  
ACTIVITY. SURGING HAS BEEN REPORTED BEHIND REGION 3803 AND AT  
NE16 WHICH IS NEAR THE LOCATION OF THE EXPECTED RETURN OF OLD  
REGION 3776.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE LOW WITH THE POSSIBILITY OF ISOLATED M-CLASS X-RAY  
EVENTS FROM REGION 3802 AND THE NORTHEAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED TO ACTIVE FOR THE PAST 24 HOURS. A REVERSE SHOCK  
PASSED THE ISEE-3 SPACECRAFT AT 0732Z AND SOLAR WIND DENSITIES  
AND MAGNETIC FIELD INTENSITIES HAVE DROPPED CONSIDERABLY SINCE.  
THE GEOMAGNETIC FIELD IS EXPECTED TO BE LOW UNSETTLED FOR THE  
REMAINDER OF TODAY BUT TO RESUME UNSETTLED TO ACTIVE BEHAVIOR  
TOMORROW BASED ON AN INFERRED CORONAL TRANSIENT (FILAMENT  
DISAPPEARANCE) MIDDAY ON 4 JULY. QUIET CONDITIONS SHOULD RETURN  
BY 10 JULY.

III. EVENT PROBABILITIES 08 JUL-10 JUL

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JUL 117

ESTIMATED 07 JUL 122

PREDICTED 08 JUL-10 JUL 130/138/146

90 DAY MEAN 06 JUL 157

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 JUL 004 AP 06 JUL 014

ESTIMATED AFR 06 JUL 014 AFR/AP 07 JUL 016/020

PREDICTED AFR/AP 08 JUL-10 JUL 015/015-015/015-007/015

SOLTERWARN

BT

HFUS 3 BOU 072200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 188B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 07 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
07/1200Z TO 07/2100Z: SOLAR ACTIVITY REMAINS LOW. THE LARGEST  
EVENT DURING THE PERIOD WAS AN UNCORRELATED C6 AT 2015Z  
MAXIMUM. ALTHOUGH SEVERAL OBSERVATORIES WERE VIEWING THE SUN  
DURING THIS TIME AND REPORTED NO DISK ACTIVITY, INDICATING A  
POSSIBLE FLARE FROM BEHIND THE EAST LIMB. ALMOST CONSTANT  
SURGING HAS BEEN REPORT FROM NE10 THROUGH NE15. REGION 3798  
(S11W31) PRODUCED A SB FLARE AT 1949Z MAXIMUM. THIS REGION HAS  
TOTALLY DECAYED IN WHITE LIGHT. REGION 3802 (S17E29) HAS  
STABILIZED DURING THE PAST NINE HOURS AND HAS LOST ITS DELTA *called*  
MAGNETIC CONFIGURATION. NO FLARES HAVE BEEN OBSERVED DURING THE  
PERIOD IN THIS REGION. REGION 3803 (N11E65) CONTINUES TO GROW  
SLOWLY IN WHITE LIGHT, BUT HAS BEEN QUIET DURING THE PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW, HOWEVER, A GENERAL INCREASE IN FLARE PRODUCTION IS  
EXPECTED DURING THE FORECAST PERIOD AS ACTIVE REGION(S) ROTATE  
OVER EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE *called* GEOMAGNETIC FIELD HAS  
BEEN ACTIVE DURING THE NINE HOUR PERIOD. UNSETTLED TO ACTIVE  
CONDITIONS ARE EXPECTED THROUGH 9 JULY.

III. EVENT PROBABILITIES 08 JUL-10 JUL

CLASS M 40/50/60

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUL 128

PREDICTED 08 JUL-10 JUL 135/140/146

90 DAY MEAN 07 JUL 156

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 JUL 016/014

ESTIMATED AFR/AP 07 JUL 022/024

PREDICTED AFR/AP 08 JUL-10 JUL 018/020-015/015-007/015

SOLTERWARN

BT

HXUS BOU 072200

PREDM 04008 05009 06010

PREDX 00108 00109 00510

PREDP 00108 00109 00110

PCAFT 00108

TENCM 13508 14009 14610

AFRED 01808 01509 00710

AFAPF 02008 01509 01510

BT