

HFUS 1 BOU 061500

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 187A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 06/1200Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 3798 (S10W11) PRODUCED TWO SUBFAINT SUBFLARES BUT IS REPORTED TO BE DECAYING IN WHITE LIGHT CHARACTERISTICS. REGION 3802 (S16E48) IS SHOWING RAPID GROWTH, A STRONG ARCH FILAMENT SYSTEM, AND A SMALL DELTA MAGNETIC CONFIGURATION BUT HAS PRODUCED ONLY MINOR PLAGE FLUCTUATIONS DURING THIS REPORTING PERIOD. SURGING CONTINUES IN PROGRESS ON THE NORTHEAST LIMB NEAR N09 WHICH WAS THE SITE OF A BSL (BRIGHT SURGE ON THE LIMB) BETWEEN 1505-1532Z ON 5 JULY. THE ONLY OTHER SPOTTED REGION ON THE DISK IS 3801 (S18E30), AN H-TYPE SPOT WHICH IS CLOSELY ASSOCIATED WITH 3802.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW BUT WITH THE POSSIBILITY OF AN ISOLATED M-CLASS EVENT FROM REGION 3802 OR REGIONS YET BEHIND THE NORTHEAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET FOR THE PAST 24 HOURS. HOWEVER, A SUDDEN IMPULSE OR POSSIBLE SUDDEN COMMENCEMENT OCCURRED AT 0044Z ON 6 JULY. ISEE WAS OFF THE AIR BETWEEN 05/2030 AND 06/0052, BUT THERE WAS A SIGNIFICANT INCREASE IN THE INTERPLANETARY TOTAL MAGNETIC FIELD WITHIN THAT TIME. THE GEOMAGNETIC FIELD IS NOW EXPECTED TO BE UNSETTLED TO OCCASIONALLY ACTIVE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 07 JUL-09 JUL

CLASS M 40/40/40  
 CLASS X 01/01/01  
 PROTON 01/01/01  
 PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 JUL 110  
 ESTIMATED 06 JUL 117  
 PREDICTED 07 JUL-09 JUL 125/130/135  
 90 DAY MEAN 05 JUL 157

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 JUL 002 AP 05 JUL 007  
 ESTIMATED AFR 05 JUL 006 AFR/AP 06 JUL 011/012  
 PREDICTED AFR/AP 07 JUL-09 JUL 014/014-015/015-015/015

SOLTERWARN

BT

HFUS 3 BOU 062200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 187B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 06 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
06/1200Z TO 06/2100Z: SOLAR ACTIVITY REMAINS VERY LOW. REGION  
3798 (S10W16) PRODUCED A C1/SN FLARE AT 1206Z MAXIMUM AND NEW  
REGION 3803 (N10E77) PRODUCED A SF AT 1942Z MAXIMUM. THE MOST  
PROMISING DISK REGION, 3802 (S17E42), HAS BEEN QUIET THROUGH  
THE PERIOD DESPITE DISPLAYING A STRONG MAGNETIC GRADIENT AND A  
WEAK MAGNETIC DELTA CONFIGURATION. THE NEW REGION 3803 SO FAR  
HAS BEEN UNIMPRESSIVE IN WHITE LIGHT (A-TYPE SPOT GROUP), WHILE  
REGION 3798 CONTINUES ITS SLOW DECAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW, HOWEVER, THE BACKGROUND X-RAY FLUX HAS INCREASED  
SLIGHTLY ALONG WITH INCREASING 10.7CM RADIO FLUX, INDICATING  
THE POSSIBLE RETURN OF ACTIVITY TO THE EAST LIMB. OLD REGION  
3776 IS DUE TO RETURN ON 8 JULY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN GENERALLY UNSETTLED DURING THE PAST NINE HOURS EXCEPT FOR  
AN ACTIVE PERIOD BETWEEN 15-18Z WHEN A K OF FOUR WAS OBSERVED  
AT BOULDER. UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE WITH  
BRIEF PERIODS AT ACTIVE LEVELS.

III. EVENT PROBABILITIES 07 JUL-09 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

PREDICTED 07 JUL-09 JUL 125/130/135

90 DAY MEAN 06 JUL 157

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 JUL 004/007

ESTIMATED AFR/AP 06 JUL 014/015

PREDICTED AFR/AP 07 JUL-09 JUL 014/014-015/015-015/015

SOLTERWARN

BT

HXUS BOU 062200

PREDM 04007 04008 04009

PREDX 00107 00108 00109

PREDP 00107 00108 00109

PCAFT 00107

TENCM 12507 13008 13509

AFRED 01407 01508 01509

AFAPF 01407 01508 01509

BT