

HFUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 191A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 10 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

09/1200Z TO 10/1200Z: SOLAR ACTIVITY HAS BEEN HIGH. REGION 3804

(N13E59) HAS PRODUCED SEVERAL M CLASSED X-RAY FLARES. THE

LARGEST WAS A M8/2B AT 2105Z. REGION 3804 IS CLASSIFIED AS A

EKC SPOT REGION AS OF 2400Z 9 JULY. NEW REGIONS NUMBERED THIS

PERIOD ARE 3805 (S10W39), 3806 (S22E42) AND 3807 (S07E72). THE

ONLY SIGNIFICANT FLARE PRODUCER ON THE DISK IS REGION 3804.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN HIGH.

REGION 3804 SHOULD CONTINUE AS THE MAJOR FLARE PRODUCER ON THE

DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS

BEEN ACTIVE AND SHOULD REMAIN SO FOR THE FORECAST PERIOD. THE

PROBABILITY OF PROTON ENHANCEMENT, FROM A MAJOR FLARE,

INCREASES AS REGION 3804 ROTATES TOWARD CENTRAL MERIDIAN.

III. EVENT PROBABILITIES 11 JUL-13 JUL

CLASS M 99/99/99

CLASS X 70/70/70

PROTON 15/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JUL 165

ESTIMATED 10 JUL 175

PREDICTED 11 JUL-13 JUL 185/190/195

90 DAY MEAN 09 JUL 156

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 JUL 016 AP 09 JUL 014

ESTIMATED AFR 09 JUL 016 AFR/AP 10 JUL 016/015

PREDICTED AFR/AP 11 JUL-13 JUL 016/020-016/025-018/020

SOLTERWARN

RT

HFUS 3 BOU 102200  
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
 SDF NUMBER 191B  
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
 ISSUED 2200Z 10 JUL 1982  
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
 10/1200Z TO 10/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE WITH  
 FREQUENT FLARES AND NEARLY CONTINUOUS BRIGHT POINTS REPORTED IN  
 REGIONS 3804. THE LARGEST FLARES WERE AN M2/SB AT 1603Z AND AN  
 M5/1B AT 2013Z. THE M5 EVENT WAS ACCOMPANIED BY A MODERATE  
 RADIO BURST WITH 200 FU AT 2695MHZ. THE REGION HAS GROWN  
 SLIGHTLY SINCE YESTERDAY AND MAGNETIC ANALYSIS SHOWS AT LEAST  
 THREE DELTA CONFIGURATIONS WITHIN THE COMPLEX SPOT GROUP.  
 REGION 3806 (S23E41) HAS BEEN GROWING STEADILY AND PRODUCED  
 THREE FLARES SINCE 1200Z. TWO NEW REGIONS WERE NUMBERED TODAY,  
 REGION 3808 (N18W17) AND REGION 3809 (S12E78).  
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT  
 MODERATE TO HIGH LEVELS WITH AN X-CLASS FLARE LIKELY FROM  
 REGION 3804 IN THE NEXT THREE DAYS.  
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
 BEEN ACTIVE. ACTIVE CONDITIONS ARE EXPECTED DURING THE FORECAST  
 PERIOD FROM A CORONAL HOLE AND RECENT FLARE ACTIVITY IN REGION  
 3804.  
 III. EVENT PROBABILITIES 11 JUL-13 JUL  
 CLASS M 99/99/99  
 CLASS X 70/70/70  
 PROTON 15/20/20  
 PCAF YELLOW  
 IV. OTTAWA 10.7 CM FLUX  
 OBSERVED 10 JUL 203  
 PREDICTED 11 JUL-13 JUL 214/221/224  
 90 DAY MEAN 10 JUL 156  
 V. GEOMAGNETIC A INDICES  
 OBSERVED AFR/AP 09 JUL 012/014  
 ESTIMATED AFR/AP 10 JUL 014/015  
 PREDICTED AFR/AP 11 JUL-13 JUL 016/020-016/025-018/020  
 SOLTERWARN  
 PT

HXUS ROU 102200  
 PREDM 09911 09912 09913  
 PREDX 07011 07012 07013  
 PREDP 01511 02012 02013  
 PCAFT 00211  
 TENCN 21411 22112 22413  
 AFRED 01611 01612 01813  
 AFAPF 02011 02512 02013  
 BT