

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

HFXS 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 ACCCOMPANIED 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 BOU 102200

PREDM 09911 09912 09913

PREDX 07011 07012 07013

PREDP 01511 02012 02013

PCAFT 00211

TENCM 21411 22112 22413

AFRED 01611 01612 01813

AFAPP 02011 02512 02013

BT