

HFUS3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 188

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. A TOTAL OF EIGHT C-CLASS XRAY EVENTS HAVE BEEN OBSERVED IN THE PAST 24 HOURS WITH THE LARGEST A C-3 AT 0528Z. THE MOST LIKELY SOURCE OF THIS ACTIVITY IS THE REGION 4671 (S14W09)/REGION 4672 (S16W09) COMPLEX. REGION 4672 HAS TRIPLED IN SUNSPOT AREA AND IS NOW A BETA-GAMMA DELTA MAGNETIC CONFIGURATION. AN ACTIVE FILAMENT PERSISTS IN THE REGION. REGIONS 4671 AND 4670 (S09W41) HAVE BEEN MOSTLY STABLE. TWO NEW REGIONS WERE ASSIGNED. THESE ARE REGION 4674 (S08W20), A FAST GROWING BIPOLE WITH 9 SPOTS, AND REGION 4675 (S02E35), A SINGLE SPOT. THE LIMBS HAVE BEEN QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE VERY LOW. HOWEVER, THERE IS A VERY GOOD CHANCE FOR AN ISOLATED M-CLASS EVENT FROM SYMPATHETIC FLARING IN THE 4671/4672 COMPLEX.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS THE PAST 24 HOURS. THE SOURCE OF THIS DISTURBANCE IS NOT WELL ESTABLISHED, BUT MAY BE THE ACTIVITY OF JULY 2.

IIB. GEOPHYSICAL ACTIVITY FORECAST: PREDOMINANTLY UNSETTLED CONDITIONS SHOULD PREVAIL FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 08 JUL-10 JUL

CLASS M 45/45/30

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUL 095

PREDICTED 08 JUL-10 JUL 096/097/096

90 DAY MEAN 07 JUL 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 JUL 022/027

ESTIMATED AFR/AP 07 JUL 021/035

PREDICTED AFR/AP 08 JUL-10 JUL 015/020-010/015-010/015

SOLTERWARN

BT