

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 119

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE LARGEST EVENT RECORDED WAS A C5/2B FROM REGION 4474 (S13W10) AT 2015Z THIS EVENT PRODUCED A TENFLARE OF 320 FLUX UNITS AND LASTED 7 MINUTES HOWEVER NO TYPE II/IV SWEEPS WERE REPORTED. REGION 4474 WHILE REMAINING GENERALLY STABLE IN SIZE HAS EXHIBITED SOME RELAXATION IN ITS INTERNAL MAGNETIC GRADIENT ALONG WITH A GENERAL LOWERING OF BACKGROUND X RAY LEVELS. REGION 4476 (S12E20) IS NOW A D TYPE GROUP AND HAS SHOWN RAPID INCREASE IN SIZE FROM YESTERDAY. NO GROUPS HAVE BEEN NUMBERED DURING THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THIS PERIOD AS REGION 4474 APPEARS CAPABLE OF ISOLATED M CLASS ACTIVITY AND IF RAPID CHANGE OCCURS THEN X CLASS FLARES SHOULD BE EXPECTED. REGION 4476 MAY BEGIN TO PRODUCE LARGE EVENTS IF RAPID GROWTH CONTINUES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED WITH SHORT PERIODS OF MINOR STORM CONDITIONS DURING THE LAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS DURING THE NEXT THREE DAYS DUE TO THE EFFECTS OF A CORONAL HOLE WHICH CAUSED ACTIVE TO MINOR STORM CONDITIONS LAST ROTATION.

III. EVENT PROBABILITIES 29 APR-01 MAY

CLASS M 90/80/80

CLASS X 15/15/10

PROTON 15/15/10

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 APR 177

PREDICTED 29 APR-01 MAY 175/173/166

90 DAY MEAN 28 APR 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 APR 017/034

ESTIMATED AFR/AP 28 APR 022/025

PREDICTED AFR/AP 29 APR-01 MAY 020/035-025/035-015/025

SOLTERWARN

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