

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 096

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100 TO 05/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. THE LARGEST EVENT WAS A C7/1B FROM REGION 4458 (N20W35) WITH XRAY MAXIMUM TIME OF 1337Z. THIS EVENT WAS ACCCOMPANIED BY DISCRETE MINOR RADIO BURSTS ACROSS THE SPECTRUM. RADIO NOISE STORMS WERE AGAIN OBSERVED ON 245, 410, AND 610 MHZ WITH THE LARGEST PEAK BEING 950 SFU AT 1303Z AT 245 MHZ. THE MOST IMPRESSIVE REGION ON THE DISK IS STILL 4455 (S14W49) WHICH IS AN FKI GROUP WITH 690 MILLIONTHS IN WHITE LIGHT AREA. MAGNETICALLY IT IS NOW A GAMMA GROUP. REGION 4458 (N20W35) A SMALL CSO GROUP WITH A BETA MAGNETIC CONFIGURATION IS THE ONLY OTHER REGION OF SIGNIFICANCE. REGION 4465 (N02E73), A SMALL AXX GROUP, WAS THE ONLY REGION NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW BUT REGIONS 4455 AND 4458 ARE CAPABLE OF PRODUCING AN ISOLATED M CLASS EVENT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MAJOR STORM LEVELS FOR MOST OF THE PERIOD. AFTER 05/1200Z MINOR STORM CONDITIONS HAVE PREVAILED. THE CAUSE OF THESE CONDITIONS REMAINS UNCERTAIN, BUT DATA FROM THE ICE SATELLITE INDICATES THAT CORONAL HOLE RELATED ACTIVITY IS MOST LIKELY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO SETTLE DOWN TO ACTIVE CONDITIONS DURING THE FIRST DAY OF THE FORECAST PERIOD. THESE CONDITIONS ARE THEN EXPECTED TO CONTINUE THROUGH THE REST OF THE PERIOD.

III. EVENT PROBABILITIES 06 APR-08 APR

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 APR 119

PREDICTED 06 APR-08 APR 116/112/105

90 DAY MEAN 05 APR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 APR 051/072

ESTIMATED AFR/AP 05 APR 030/049

PREDICTED AFR/AP 06 APR-08 APR 018/020-014/015-015/015

SOLTERWARN

RT