

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 ACCOMPANIED 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 FK1 GROUP WITH 690
MILLIONTHS IN WHITE LIGHT AREA. MAGNETICALLY IT IS NOW A GAMMA
GROUP. REGION 4458 (N20W35) A SMALL CS0 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