

HFUS 3 BOU 042200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 095

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100 TO 04/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. THE LARGEST EVENT WAS A C6/1B FROM REGION 4455 (S13W35) WITH XRAY MAX TIME OF 0939Z. REGION 4458 (N21W22) PRODUCED A C6/SN WITH XRAY MAXIMUM TIME OF 1843Z. AN IMPORTANCE 3 TYPE II BURST WAS OBSERVED IN ASSOCIATION WITH A C4/SB FLARE FROM REGION 4455. THIS TYPE II WAS AT 0300Z AND THE XRAY MAX TIME OF THE FLARE WAS 0257Z. RADIO NOISE STORMS WERE AGAIN OBSERVED AT 245, 410, AND 610 MHZ. NUMEROUS DISCRETE BURSTS WERE OBSERVED IN ASSOCIATION WITH FLARES. THE LARGEST TWO WERE 5900 SFU AT 610 MHZ AND 1900 SFU AT 245 MHZ ASSOCIATED WITH THE C6/1B FROMM REGION 4455 (BURST PEAK TIMES BOTH 0937Z). REGION 4455 REMAINS THE MOST IMPRESSIVE ON THE DISK AND IS NOW AN FKI GROUP WITH A WHITE LIGHT ARES OF 750 MILLIONTHS AND A GAMMA-DELTA MAGNETIC CONFIGURATION. REGION 4458 IS A SMALL CSO GROUP (AREA 60 MILLIONTHS) BUT IS STILL PRODUCING OCCASIONAL C CLASS FLARES. TWO NEW REGIONS WERE NUMBERED. REGION 4463 (S19E42) IS A SPOTLESS PLAGE THAT PRODUCED A SF FLARE AT 03/2010Z. REGION 4464 (S12E33) IS A SMALL A TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW THROUGH THE PERIOD, BUT AN ISOLATED M CLASS EVENT IS STILL POSSIBLE FROM REGION 4455.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MINOR TO MAJOR STORM LEVELS THROUGH THE PERIOD. MOST OF THIS IS BELIEVED TO BE CORONAL HOLE RELATED. JUST PRIOR TO 1800Z, HOWEVER, MAJOR STORM CONDITIONS BEGAN. THESE APPEAR TO BE RELATED TO A FILAMENT THAT DISSAPPEARED FROM REGION 4458 (APPROX N22E27) MIDDAY ON 1 APRIL.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE CORONAL HOLE RELATED ACTIVITY IS EXPECTED TO END TODAY (4 APRIL), BUT THE FILAMENT RELATED ACTIVITY IS EXPECTED TO CONTINUE THROUGH THE 5TH. THIS SHOULD RESULT IN MINOR STORM TO ACTIVE CONDITIONS ON THE 5TH AND IN ACTIVE CONDITIONS FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 05 APR-07 APR

CLASS M 25/25/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 APR 129

PREDICTED 05 APR-07 APR 127/125/124

90 DAY MEAN 04 APR 128

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 APR 041/040

ESTIMATED AFR/AP 04 APR 035/060

PREDICTED AFR/AP 05 APR-07 APR 028/030-018/020-014/015

SOLTERWARN

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