

HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 099

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 08 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100  
TO 08/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4458 (N18W74)  
PRODUCED A C1/0F EVENT AT 08/0749Z. ALTHOUGH IT WAS THE MOST  
SIGNIFICANT PRODUCER, IT WAS DECREASING IN EVERY  
CHARACTERISTIC. THE OFFICIAL OTTAWA 10CM FLUX VALUE OF 123 WAS  
DEGRADED BY NOISE BURSTS, AND AN ESTIMATED FLUX OF 101 WAS  
DERIVED FROM SAGAMORE HILL. ONE NEW REGION WAS NUMBERED. REGION  
4466 (S06E07) WAS A SIMPLE ALPHA-TYPE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
LOW. REGION 4455 (S15W89) STILL PROVIDES A SLIGHT CHANCE OF  
MODERATE LEVEL ACTIVITY UNTIL IT ROTATES AROUND THE WEST LIMB  
ON 9 APR. RETURNING REGION 4443 (N13,CAR-110) IS EXPECTED AT  
11/2000Z. THIS REGION PRODUCED ONE M-LEVEL AND THREE IMPORTANCE  
ONE FLARES DURING ITS LAST PASSAGE. IT SIMPLIFIED ITS MAGNETIC  
AND WHITE-LIGHT CONFIGURATION DOWN TO A HAX AS IT PASSED OVER,  
BUT ITS AREA WAS INCREASING.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z:  
GEOMAGNETIC ACTIVITY WAS AT MINOR TO MAJOR STORM LEVELS. MAJOR  
LEVELS WERE REPORTED AT MID-LATITUDES FROM 08/0600-1200Z. THIS  
DISTURBANCE WAS ATTRIBUTED TO DISAPPEARING FILAMENTS ON 5/6  
APR.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS  
EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS THROUGH THE  
SECOND DAY (10 APR). MAJOR LEVELS ARE EXPECTED AT HIGH  
LATITUDES. THE DISTURBANCE (CAUSED BY DISAPPEARING FILAMENTS)  
IS EXPECTED TO DECREASE TO UNSETTLED-TO-ACTIVE LEVELS BY THE  
THIRD DAY (11 APR).

III. EVENT PROBABILITIES 09 APR-11 APR

CLASS M 20/05/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 APR 101

PREDICTED 09 APR-11 APR 097/105/113

90 DAY MEAN 08 APR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 APR 019/025

ESTIMATED AFR/AP 08 APR 033/055

PREDICTED AFR/AP 09 APR-11 APR 029/035-017/020-012/015

SOLTERWARN

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