

HFUS 3 BOU 012200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 092

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 01 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100  
TO 01/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. THE  
LARGEST FLARE PRODUCED THIS PERIOD WAS A C8/1B FLARE WHICH  
OCCURRED IN REGION 4458 (N20E19) AT 0252 UT. MINOR RADIO BURSTS  
ACCOMPANIED THIS FLARE. THE REMAINDER OF THE EVENTS THIS PERIOD  
WERE LIMITED TO C CLASS X-RAY FLARES, OPTICAL SUBFLARES, A  
DISAPPEARING SOLAR FILAMENT (LOCATED AT N22E27 WHEN IT  
DISAPPEARED AT APPROXIMATELY 1430 UT) AND MINOR RADIO BURSTS.  
REGION 4458 REMAINS AN ENIGMA, THOUGH NOT PARTICULARLY COMPLEX,  
IT CONTINUES TO CONTRIBUTE NUMEROUS FLARES AND RADIO BURSTS.  
THIS REGION IS STILL A C TYPE SPOT GROUP. REGION 4455 (S14E04)  
IS STILL THE LARGEST SPOT GROUP ON THE DISK WITH A F TYPE SPOT  
CLASSIFICATION. THIS REGION HAS DEVELOPED A DELTA TO GO ALONG  
WITH IT'S GAMMA MAGNETIC CONFIGURATION. ONE NEW REGION WAS  
NUMBERED THIS PERIOD, 4461 (S15E22), A B TYPE SPOT GROUP. THE  
REMAINING REGIONS ON THE DISK APPEAR STABLE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO  
MODERATE THROUGHOUT THE FORECAST PERIOD. ANY MODERATE LEVEL  
ACTIVITY SHOULD ORIGINATE IN REGION 4455 OR REGION 4458.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z:  
THE GEOMAGNETIC FIELD HAS CONTINUED AT ACTIVE TO STORM LEVELS,  
AT ALL LATITUDES, THIS PERIOD. THIS ACTIVITY HAS BEEN DUE TO  
THE CONTINUED INFLUENCE OF CORONAL HOLE STREAMS UPON THE  
MAGNETOSPHERE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD  
SHOULD CONTINUE AT ACTIVE TO MINOR STORM LEVELS, AT ALL  
LATITUDES, THROUGHOUT THE FORECAST PERIOD. THIS ACTIVITY WILL  
BE DUE TO THE CONTINUED EFFECTS OF THE CORONAL HOLE STREAMS.

III. EVENT PROBABILITIES 02 APR-04 APR

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 APR 136

PREDICTED 02 APR-04 APR 134/131/130

90 DAY MEAN 01 APR 127

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 MAR 022/029

ESTIMATED AFR/AP 01 APR 025/045

PREDICTED AFR/AP 02 APR-04 APR 029/025-025/025-019/025

SOLTERWARN

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