

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 116

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 25 APRIL 1980

IA. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL AGAIN TODAY.  
ACTIVITY HAS CONSISTED OF ONLY LOW LEVEL CLASS C X-RAY EVENTS.  
MOST WERE NOT CORRELATED DURING A PERIOD OF LIMITED OPTICAL COV-  
ERAGE EARLY IN THE ZULU DAY. A NEW REGION (2411, S17E71), HAS  
ROTATED OVER THE EAST LIMB AND PRODUCED A C2/1F AT 1747Z MAX-  
IMUM. THIS REGION WAS SEEN AS A SMALL COMPACT B-TYPE GROUP  
EARLY IN THE DAY, BUT NOW APPEARS TO BE GROWING WITH AN ACTIVE  
NEUTRAL LINE AND ARCH FILAMENTS. REGIONS 2407 (S30W22) AND 2396  
(S13W22) HAVE BEEN THE ONLY OTHER FLARE PRODUCERS TODAY WITH  
SUBFLARES REPORTED.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE NEXT  
24 HOURS. REGION 2396 IS CONTINUING TO DECAY, MAINLY IN ITS  
TRAILER PORTION AND ALONG ITS NEUTRAL LINE IN THE CENTRAL POR-  
TION. REGION 2407 IS GROWING SLOWLY WITH ARCH FILAMENTS RE-  
PORTED BUT AT THIS TIME DOES NOT APPEAR TO BE LARGE ENOUGH TO  
CAUSE A SIGNIFICANT EVENT. AN INCREASE IN ACTIVITY IS FORECAST  
ON THE THIRD DAY WITH THE EXPECTED RETURN OF REGION 2372 (N12-  
CAR 101). THIS REGION PRODUCED AN X2/1B LAST ROTATION ON THE  
6TH OF APRIL AT 1427Z.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24  
HOURS. CONTINUED UNSETTLED LEVELS ARE FORECAST DURING THE NEXT  
24 HOURS.

III. EVENT PROBABILITIES 26 APRIL - 28 APRIL

CLASS M 25/25/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 APRIL 184

PREDICTED 26-28 APRIL 184/184/187

90-DAY MEAN 25 APRIL 194

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 APRIL 08

ESTIMATED AFR/AP 25 APRIL 11/11

PREDICTED AFR/AP 26-28 APRIL 10/10 08/12 10/12

SOLTERWARN

BT