

HFUS 1 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 118

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 27 APRIL 1980

IA. SOLAR ACTIVITY HAS BEEN CONFINED TO CLASS C AND ONE "M" CLASS  
X-RAY BURSTS THUS FAR THIS ZULU DAY. MOST OF THIS ACTIVITY WAS  
PRODUCED BY REGIONS 2396 (S14W49) AND 2411 (S17E43). REGION 2396,  
WHICH PRODUCED THE M1, IS NOW AN "F" TYPE SPOT GROUP WITH A BETA  
GAMMA MAGNETIC CONFIGURATION. THE FLARE IS WELL ORGANIZED,  
MODERATELY BRIGHT AND IS CONCENTRATED BEHIND THE LEADER SPOT AND  
OVER THE INTERMEDIATE AND TRAILER SPOTS. REGION 2411, ALTHOUGH  
ACTIVE AS A FLARE PRODUCER, IS NOT IMPRESSIVE IN H-ALPHA. THE FLARE  
IS LESS BRIGHT THAN THAT OF 2396 AND IS NOT AS WELL STRUCTURED.  
THE SPOT GROUP MAY BE GROWING SLOWLY BUT AT THE SAME TIME MAY BE  
SEPARATING INTO A SIMPLE LEADER-FOLLOWER CONFIGURATION. REGION  
2407 (S31W48) HAS BEEN DYNAMIC IN ITS LEADING PORTIONS AS THE  
FLARE IS NEAR FLARE BRIGHT AND HAS BEEN FLUCTUATING. A LINE OF  
SMALL SPOTS IS DEVELOPING IN THE VICINITY OF THIS ENHANCED FLARE.  
AN EPL WAS OBSERVED AT NE11 ABOUT 270230 UT THAT WAS ACCOMPANIED  
BY A C-6 X-RAY BURST. OLD REGION 2372 IS EXPECTED BACK AT THIS  
LOCATION AND SO FAR A LARGE H-TYPE SPOT WITH FAINT FLARE  
HAS ROTATED OVER. THIS REGION WILL BE NUMBERED 2416.

IB. SOLAR ACTIVITY SHOULD BE AT LOW TO MODERATE LEVELS DURING  
THE COMING 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED.  
NO MAJOR CHANGES ARE EXPECTED DURING THE NEXT 24 TO 36 HOURS.

III. EVENT PROBABILITIES 28 APRIL - 30 APRIL

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 APRIL 204

PREDICTED 28-30 APRIL 205/207/209

90-DAY MEAN 27 APRIL 193

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 APRIL 06

ESTIMATED AFR/AP 27 APRIL 07/06

PREDICTED AFR/AP 28-30 APRIL 10/12 - 08/10 - 08/10

SOLTERWARN

BT