

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 PLAGE 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 PLAGE 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 (S3W48) HAS BEEN DYNAMIC IN ITS LEADING PORTIONS AS THE PLAGE IS NEAR FLARE BRIGHT AND HAS BEEN FLUCTUATING. A LINE OF SMALL SPOTS IS DEVELOPING IN THE VICINITY OF THIS ENHANCED PLAGE. AN EPL WAS OBSERVED AT NE II ABOUT 270230 UT THAT WAS ACCCOMPANIED 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 PLAGE 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 UNSETLED. NO MAJOR CHANGES ARE EXPECTED DURING THE NEXT 24 TO 36 HOURS.

III. EVENT PROBABILITIES 28 APRIL - 30 APRIL

CLASS M	5/05 0/5 0
CLASS X	05/05 1/05
PROMPT	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 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
SOLITERWARN	
BT	