

HFUS 1 BOU 2522 00
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SD F. NUMBER 085
JOINT USAF/N NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 MARCH 1980

I A. SOLAR ACTIVITY HAS BEEN LOW DURING THE LAST 24 HOURS. A C7/1B FLARE FROM REGION 2339 (S27W77) WHICH OCCURRED ON 25/0430Z (MAX) WAS THE MOST INTERESTING EVENT; IT WAS ACCCOMPANIED BY TYPES II AND III RADIO SWEEPS AND MINOR SHORT WAVE FADES. AMONG OTHER REGIONS WHICH PRODUCED C-CLASS X-RAY EVENTS WERE REGION 2341 (N13W32), A C4/1N FLARE ON 25/0155Z (MAX) AND REGION 2340 (S23W35) WHICH PRODUCED A 1N FLARE ON 25/0424Z (MAX). THIS EVENT PROBABLY CONTRIBUTED TO THE C7 X-RAY FLUX WHICH WAS REPORTED FOR REGION 2339 ABOVE. REGION 2356 (S2E45) APPEARS TO BE REVERSED POLARITY MAGNETICALLY, AND MAY HAVE AN ISOLATED POLE IN THE POSITIVE LEADER FIELDS, IT DOES NOT CURRENTLY APPEAR IMPRESSIVE IN H-ALPHA. REGION 2360 (N15E38) IS A NEW BIPOLE SPOT GROUP THAT HAS APPARENTLY SUDDENLY APPEARED. THE NORTHEAST LIMB AS A WHOLE APPEARS MAGNETICALLY COMPLEX AND MAY BE INDICATIVE OF IMENDING INCREASED SOLAR ACTIVITY.

I B. SOLAR ACTIVITY IS FORECAST TO BE LOW TO MODERATE DURING THE NEXT 24-48 HOUR PERIOD. THE DISK APPEARS TO BE MORE DYNAMIC WITH MORE EMERGING MAGNETIC FLUX AND INCREASING X-RAY AND 10 CM BACKGROUND FLUXES WHICH SHOULD INCREASE THE POTENTIAL FOR MORE SIGNIFICANT EVENTS. REGION 2356 HAS GOOD GROWTH POTENTIAL AND THE REGIONS IN THE NORTHEAST GRADIENT, 2357 (N2E39) 2358 (N25E46) AND 2359 (N15E53) ARE WORTHY OF INCREASED ATTENTION FOR GROWTH AND DEVELOPMENT.

I I. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST PERIOD. THE FIELD SHOULD REMAIN AT PREDOMINATELY QUIET TO UNSETLED LEVELS OVER THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 26-28 MARCH

CLASS M	35/40/50
CLASS X	01/01/05
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	25 MARCH 190
PREDICTED	26-28 MARCH 190/190/192
%-DAY MEAN	25 MARCH 192

V. GEOMAGNETIC INDICES

OBSERVED	FREDERICKSBURG 24 MARCH 06
ESTIMATED AFR/AP	25 MARCH 04/07
PREDICTED AFR/AP	26-28 MARCH 07/10 06/08 06/08
SOLTERWARN	
BT	