

HFUS 1 B OU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 112

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 22 APRIL 1979

1A. SOLAR ACTIVITY CONTINUES LOW WITH A FEW MINOR C-CLASS X-RAY FLARES. THE LARGEST WAS A C-5 AT 1552 UT., NO OPTICAL FLARE WAS SEEN. REGIONS 1704 (N17W57) AND 1689 (N28W78) HAVE PRODUCED SOME SUB NORMAL OPTICAL FLARES AND ONE C-2 X-RAY FLARE FROM 1704 AT 0532 UT. NEW REGION 1704 HAS CONTINUED TO SHOW SLOW GROWTH. OTHER NEW REGIONS ARE 1705 (N18E77) LARGE E-TYPE GROUP, HOWEVER LITTLE SURGE ACTIVITY HAS BEEN REPORTED, REGION 1706 (S25E73) FREQUENT SURGE ACTIVITY HAS BEEN REPORTED FROM THIS AREA, ALSO. SOME SPOTS ARE BEING REPORTED TO THE EAST OF THE REGION, HOWEVER LIMB PROXIMITY HAMPERS ABILITY TO TELL IF THIS IS A NEW REGION OR A CONTINUATION OF 1706.

1B. SOLAR ACTIVITY IS EXPECTED TO INCREASE TO NEAR MODERATE LEVELS AS THE NEW REGIONS ROTATE ONTO THE VISIBLE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE, POSSIBLE CAUSE WAS THE EFFECTS OF A SMALL CORONAL HOLE WHICH WAS AT CENTRAL MERIDIAN ON 17 APRIL. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 23 - 25 APRIL

CLASS M 15/20/30

CLASS X 01/01/05

PREDICTED 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 APRIL 161

PREDICTED 23-25 APRIL 160/164/166

92-DAY MEAN 22 APRIL 192

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 APRIL 12

ESTIMATED AFR/AP 22 APRIL 28/40

PREDICTED AFR/AP 23-25 APRIL 14/20 12/16 12/14

SOLTERWARN

BT