

- HFUS 1 BOU 012200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SD F NUMBER 091
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 01 APRIL 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE. AN M5/2B FLARE WAS OBSERVED FROM REGION 1661 AT S24E19 ON 31/2318Z. MINOR RADIO BURSTS WERE ASSOCIATED WITH THE FLARE. REGION 1661 (S25E06) CONTINUES TO BE THE DOMINANT FORCE ON THE VISIBLE DISK WITH SEVERAL SUBFLARES OBSERVED FROM A VERY MAGNETICALLY COMPLEX BETA-GAMMA-DELTA REGION. THIS REGION APPEARS TO HAVE AT LEAST TWO AREAS OF DELTA CONFIGURATIONS AND HIGH MAGNETIC GRADIENTS. H-ALPHA FILTERGRAMS SHOW CONTINUOUS PLAGE FLUCTUATIONS AND POINT BRIGHTENINGS WITH A DARK ACTIVATED FILAMENT. WHITE LIGHT SHOWS A SPOT GROUP WITH 30 SPOTS COVERING AN AREA APPROXIMATELY 1200 SQ. HELIO. DEGREES. OTHER MINOR SUBFLARES WERE OBSERVED FROM REGION 1666 (S27W19).

IB. SOLAR ACTIVITY COULD POTENTIALLY GO TO HIGH LEVELS. REGION 1661 HAS THE CHARACTERISTICS TO PRODUCE A LARGE ENERGETIC EVENT AND IS MOVING INTO A POSITION TO PRODUCE SIGNIFICANT TERRESTRIAL EFFECTS IF A LARGE EVENT SHOULD OCCUR.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST PERIOD. IT IS EXPECTED TO GENERALLY DECREASE TO UNSETLED LEVELS OVER THE NEXT 24 HOURS. NO AVAILABLE DATA SOURCES INDICATE THE APPROACH OF FURTHER GEOMAGNETIC DISTURBANCES OF SOLAR ORIGIN DURING THIS PERIOD.

III. EVENT PROBABILITIES 2-4 APRIL
CLASS M 85/85/85
CLASS X 20/20/25
PROTON 15/20/20
PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX
OBSERVED 1 APR 210
PREDICTED 2-4 APR 210/210/212
90-DAY MEAN 1 APR 199

V. GEOMAGNETIC INDICES
OBSERVED FREDERICKSBURG 31 MAR 12
ESTIMATED AFR/AP 1 APR 18/31
PREDICTED AFR/AP 2-4 APR 14/18 - 10/15 - 08/10
SOLTERWARN

BT