

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDE NUMBER -120

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 APRIL 1980

I. SOLAR ACTIVITY HAS BEEN MODERATE. X-RAY BACKGROUND HAS INCREASED. NUMEROUS CLASS C FLARES HAVE OCCURRED. AN M2/SB EVENT OCCURRED IN REGION 2396 (SW 68) WITH AN ASSOCIATED RADIO BURST OF 255 FLUX UNITS, MAXIMUM AT 1305Z, LASTING 40 MINUTES. A NEW REGION 2418 (S2 E 80) CAME ON THE DISK. BRIGHT SURGES HAVE OCCURRED BEHIND REGION 2418 ON THE LIMB AND POST FLARE LOOPS HAVE BEEN OBSERVED. A NEW REGION 2419 (S07W33) HAS DEVELOPED SPOOTS AND IS GROWING. REGION 2407 PRODUCED A SUBFAINT FLARE AT 1804Z.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE. REGIONS 2396, 2407, AND REGION 2411 (S16E17) ALL HAVE POTENTIAL FOR ACTIVITY. REGION 2418 HAS NOT SHOWN ACTIVITY BUT REGIONS EXPECTED ON THE DISK ARE FROM LONGITUDES DEMONSTRATING ACTIVITY IN PAST ROTATIONS. THESE SHOULD CONTRIBUTE SIGNIFICANTLY TO ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. IT IS EXPECTED TO REMAIN QUIET FOR THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 30 APRIL - 02 MAY

CLASS M 80/80/80

CLASS X 10/15/15

PREDICTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 APRIL 203

PREDICTED 30 APRIL - 02 MAY 206/210/212

SD-DAY MEAN 29 APRIL 193

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 28 APRIL 05

ESTIMATED AFR/AP 29 APRIL 06/08

PREDICTED AFR/AP 30 APRIL - 02 MAY 06/10 - 06/12 - 05/10

SOLTERWARN

BT.