

HFUS 1 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SD F NUMBER 119

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 APRIL 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE. THERE HAVE BEEN THREE M CLASS X-RAY EVENTS. THE FIRST AN M2 IN REGION 2407 (S29W56), MAX AT 1240Z, AND THE SECOND AN M1 IN REGION 2396 (S09W66), WITH A SUBNORMAL OPTICAL FLARE MAXIMUM AT 1733. ADDITIONALLY SEVEN FLARES OF CLASS C X-RAY GREATER OR EQUAL TO TWO HAVE BEEN OBSERVED, WITH THE LARGEST ASSOCIATED OPTICAL OF ONE BRIGHT. NEW PLAGE DEVELOPMENT HAS BEEN OBSERVED IN THE FRONT OF REGION 2396 AND REGION 2407. A NEW REGION 2417 (S12E32) HAS APPEARED ON THE DISK CLOSE TO REGION 2411 (S13E45). SURGING WITH LOOPS TO ONE TENTH DISK RADIUS WERE OBSERVED ON THE EAST LIMB.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE FOR THE FORECAST PERIOD, WITH THE POSSIBILITY OF M CLASS ACTIVITY IN REGIONS 2396, 2407, 2411. REGIONS COMING ONTO THE DISK MAY ALSO CONTRIBUTE.

II. MAGNETIC ACTIVITY IS EXPECTED TO REMAIN UNSETTLED.

III. EVENT PROBABILITIES 29 APRIL - 01 MAY

CLASS M 80/75/75

CLASS X 20/20/20

PREDICTED 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OB SERVED 28 APRIL 201

PREDICTED 29 APRIL - 01 MAY 204/207/210

90-DAY MEAN 28 APRIL 193

V. GEOMAGNETIC INDICES

OB SERVED FREDERICKSBURG 27 APRIL .05

EST IMATED AFR/AP 28 APRIL .05/.09

PREDICTED AFR/AP 29 APRIL - 01 MAY .05/.10 - .05/.15 - .06/.13

SOLTERWARN

BT