

HFUS-1 B0U 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 121

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 30 APRIL 1980

I A. SOLAR ACTIVITY HAS BEEN MODERATE. CLASS C X-RAY ACTIVITY HAS BEEN OCCURRING REPEATEDLY, AND BACKGROUND HAS REMAINED HIGH. TWO CLASS M2 X-RAY EVENTS (SOURCE UNKNOWN) OCCURRED, THE FIRST MAXIMUM AT 1130Z, THE SECOND AT 2026Z. SEVERAL NEW REGIONS HAVE APPEARED ON THE DISK, WHILE REGIONS 2396 (S14W87), AND 2407 (S31W88) ARE LEAVING. THESE LATTER TWO HAVE BEEN RESPONSIBLE FOR MUCH OF THE RECENT ACTIVITY. THE EAST LIMB REMAINS ACTIVE, BOTH AT NE22, AND AT S24. PLAGE HAS ROTATED AROUND THE LIMB. NEW ACTIVE REGIONS THIS PERIOD ARE: 2420 (S23W52), 2421 (N29W20), 2422 (S16E42), 2423 (N22E75), AND 2424 (S24E90).

I B. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. REGION 2411 (S17E03) MAY YET EXHIBIT ACTIVITY, BUT GREATER PROBABILITY IS EXPECTED FROM THE REGIONS MOVING AROUND THE EAST LIMB.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL 1500Z AND WENT UNSETTLED AT THAT TIME. K-INDICES OF THREE ARE BEING REPORTED. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED.

III. EVENT PROBABILITIES 01-MAY - 03-MAY

CLASS M 80/80/80

CLASS X 10/10/10

PREDICTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 APRIL 1980

PREDICTED 01-03 MAY 2.05/2.08/2.10

90-DAY MEAN 30 APRIL 1931

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 29 APRIL 06

ESTIMATED AFR/AP 30 APRIL 10/09

PREDICTED AFR/AP 01-03 MAY 10/15 - 12/12 - 12/12

SOLTERWARN

BT