

HFUS 1 BOU 2022 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 111

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 APRIL 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS WITH THE EXCEPTION OF A FAINT X-RAY EVENT (NO OPTICAL REPORT) WHICH MAXED AT 0646 UT. HOWEVER, SIGNIFICANT GROWTH OCCURRED TODAY IN REGIONS 2396 (S12E44) AND 2399 (N11E54) AND ~~FOUR~~ NEW REGIONS WERE NUMBERED. THE NEW REGIONS INCLUDE TWO WHICH APPEARED ON THE DISK AT ~~S10E07 (REGION 2402)~~ AND N15E46 (REGION 2403), A NEW AND ACTIVE GROUP WHICH FOLLOWED 2399 onto the disk at N14E62 (REGION 2404), AND A NEW GROUP AT N05E61 (REGION 2405). 3

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW BUT WITH INCREASING OPPORTUNITY OF M-LEVEL EVENTS BASED ON CONTINUED DEVELOPMENT IN 2396 AND INDICATIONS OF RETURNING AND DEVELOPING ACTIVE REGIONS ON THE NORTHEAST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO EXPERIENCE PERIODS OF UNSETTLED ACTIVITY FOR THE NEXT TWO DAYS IN RESPONSE TO AN ACTIVE SECTOR BOUNDARY NOW LOCATED AT WEST 45 DEGREES HELIO LONGITUDE. A QUIESCENT PROMINENCE LYING ON THIS BOUNDARY DISAPPEARED BETWEEN APRIL 18 AND 19.

III. EVENT PROBABILITIES 21 - 23 APRIL

CLASS M 30/35/40

CLASS X 01/01/01

PREDICTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 APR 214

PREDICTED 21 - 23 APR 212/210/215

90-DAY MEAN 20 APR 193

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 19 APR 04

ESTIMATED AFR/AP 20 APR 07/10

PREDICTED AFR/AP 21 - 23 APR 12/12 12/10 08/08

SOLAR/WARN

BT