

HEUS 1 EQU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 051

JOINT USAF/NASA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 FEB 1980

I.A. THE LOW LEVEL OF SOLAR ACTIVITY CONTINUED FOR YET ANOTHER DAY. REGION 2287 (S10E25) PRODUCED ONLY SMALL FLARES UNTIL 2018Z WHEN A C7/1B FLARE WAS OBSERVED. A MINOR, 16 SFU, 10CM BURST WAS ASSOCIATED WITH THIS EVENT. 2287 APPEARS STABLE BUT HAS SHOWN SOME SIGNS OF COMPLEXITY, REVERSE POLARITY AND E-W NEUTRAL LINE. REGION 2281 (N08W59) CONTINUES ITS SLOW DECLINE AND IS QUIET. SLOW GROWTH HAS OCCURRED IN 2288 (N09E41), 2289 (S00-W18) AND 2290 (S17W12). A NEW REGION, 2291 (S12E90) HAS BRIGHT PLACE, BUT NO SPOTS ARE YET VISIBLE.

I.B. SOLAR ACTIVITY SHOULD REMAIN AT A LOW LEVEL THRU THE EARLY PART OF THE PERIOD. DEVELOPMENT IN 2287 AND/OR THE RETURN OF ACTIVE CENTERS ON THE EAST LIMB MAY BRING PERIODS OF MODERATE ACTIVITY LATER IN THE PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. GENERALLY QUIET CONDITIONS ARE EXPECTED THRU THE NEXT COUPLE DAYS. THE FIELD MAY BECOME SLIGHTLY UNSETTLED AT THE END OF THE PERIOD.

III. EVENT PROBABILITIES 21 FEB - 23 FEB

CLASS M . . 25/25/30

CLASS X . . 01/01/01

PROTON . . 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 FEB 179

PREDICTED . . 21-23 FEB 175/170/174

90-DAY MEAN . . 20 FEB 235

V. GEOMAGNETIC INDICES

OBSERVED: FREDERICKSBURG . . 19 FEB 198

ESTIMATED: AFR/AP 20 FEB 06/07

PREDICTED: AFR/AP 21-23 FEB 06/07 06/08 06/10 10/10

SOLTERWARN

BT