

HEUS 1 301 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 051

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

IA. THE LOW LEVEL OF SOLAR ACTIVITY CONTINUED FOR YET ANOTHER
DAY. REGION 2287 (S10E25) PRODUCED ONLY SMALL FLARES UNTIL 2010Z
WHEN A C7/IB 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 (S17W2). A NEW REGION 2291 (S12E90) HAS BRIGHT
PLAGE, BUT NO SPOTS ARE YET VISIBLE.

IB. 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 206

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 FEB 08

ESTIMATED AFR/AP 20 FEB 06/07

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

SOLTERWARN

BT