

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 080

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

IA. SOLAR ACTIVITY CONTINUES LOW WITH NUMEROUS SUBFLARES AT THE
LOW END OF THE CLASS-C SCALE. REGION 2339 (S26W18) HAS GROWN
ADDITIONAL SMALL SPOTS AND PENUMBRA IN THE VICINITY OF ITS MOST
COMPLICATED MAGNETIC FIELDS. THE REGION IS COMPOSED OF TWO BI-
POLAR AREAS END TO END BUT THE WESTERN MEMBER IS DECLINING.
THIS DECAY IS OFFSETTING THE EFFECT OF THE APPROACH OF THE
EASTERN LEADER SPOT TOWARD THE WESTERN FOLLOWERS. MOST OF THE
FLARES HAVE OCCURRED IN THE CENTER OF THE EASTERN BIPOLE WHERE
MAGNETIC FLUX CONTINUES TO EMERGE. MINOR SURGES WERE REPORTED
AT N09 AND N24 AT EAST LIMB. ALL OTHER REGIONS ARE SMALL AND
INACTIVE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT THE PRESENT LOW
LEVEL. LONGITUDES APPEARING AT EAST LIMB HAVE BEEN ACTIVE IN
RECENT MONTHS AND MAY BRING A SLIGHT RISE IN BACKGROUND EMIS-
SION AT RADIO AND X-RAY WAVELENGTHS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. CONDITIONS WILL BE
QUIET TO SLIGHTLY UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 21-23 MARCH

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MARCH 163

PREDICTED 21-23 MARCH 166/169/172

30-DAY MEAN 20 MARCH 192

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 MARCH 12

ESTIMATED AFR/AP 20 MARCH 04/07

PREDICTED AFR/AP 21-23 MARCH 08/07 08/08 08/07

SOLTERWARN

BT