

HFUS 1 BOM 213200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 202

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 JULY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE SINCE REGION 1880 (N15W35)
HAS PRODUCED AN M1/1B EVENT WITH BOTH OPTICAL AND X-RAY MAX
OCCURRING AT 1354 UT. THIS REGION CONTINUES TO GROW RAPIDLY AND
PRESENTLY DISPLAYS A BETA-GAMMA MAGNETIC CONFIGURATION. REGION
1878 (N29W67) HAS PRODUCED C-CLASS SUBFLARES AND APPEARS TO BE
SYMPATHETIC WITH REGION 1880 EVENTS. REGION 1878 HAS ALSO HAD AN
ACTIVE FILAMENT. REGION 1877 (N31E02) HAS PRODUCED SUBFLARES AND
PRESENTLY CONTAINS A U-SHAPED NEUTRAL LINE WITH SHARP KINKS
THAT OPENS TO THE SOUTH. OTHER REGIONS WITH LOWER ACTIVITY
POTENTIALS ARE: REGION 1875 (S19W22), REGION 1866 (S26W59) AND
REGION 1872 (S04W08). A SIGNIFICANT FILAMENT NORTH OF REGION
1880 HAS DISAPPEARED DURING THE PAST 24 HOURS. ALL OTHER DISK AND
LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH REGIONS
1880 AND 1878 HAVING THE GREATEST EVENT POTENTIAL FOR M-CLASS
EVENTS AND REGIONS 1877, 1875, 1866 AND 1872 HAVE THE HIGHEST
POTENTIAL FOR C-CLASS EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED TO
BE QUIET TO UNSETTLED DURING THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 22 JULY - 24 JULY

CLASS M 50/50/40

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JULY 142

PREDICTED 22-24 JULY 146/146/146

90-DAY MEAN 21 JULY 174

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 JULY 17

ESTIMATED AFR/AP 21 JULY 13/14

PREDICTED AFR/AP 22-24 JULY 10/12 - 10/15 - 06/12

SOLTERWARN

BT