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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 213

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 01 AUGUST 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS WITH THE
OCCURRENCE OF TWO M1 X-RAY EVENTS. THE FIRST M1 MAXED AT 1118 UT
WITH NO OPTICAL REPORTS, BUT WITH SOME RADIO OUTPUT INCLUDING 160
FLUX UNITS AT 2695 MHZ (3 MINUTES DURATION). THE SECOND M1 WAS A
B FLARE FROM REGION 1895 (S12W00) WHICH MAXED AT 1422 UT. SUB
FLARES WERE REPORTED FROM REGIONS 1895, 1892 (S22W05) AND 1892
(N15W35). THREE NEW REGIONS WERE NUMBERED TODAY. REGIONS 1900
(N18E14) AND 1901 (S17E42) ARE BOTH A-TYPE SPOT GROUPS, AND REGION
1902 (S10E70) IS A B-TYPE GROUP ROTATING OVER THE EAST LIMB.
IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE DEPENDING ON
REGION 1895, WHICH IS NOW VERY COMPLEX MAGNETICALLY (BETA-GAMMA-
DELTA). REGION 1892 IS GROWING AND COULD ALSO PRODUCE ENERGETIC
EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE FOR THE
PAST 24 HOURS. A SUDDEN COMMENCEMENT TODAY AT 1145 UT IS ATTRIBUTED
TO THE EFFECTS OF A HIGH SPEED SOLAR WIND STREAM FROM AN
EQUATORIAL CORONAL HOLE. THE FIELD SHOULD REMAIN MOSTLY UNSETTLED
THROUGHOUT THE FORECAST PERIOD WITH OCCASIONAL ACTIVE PERIODS
TOMORROW DECREASING TO QUIET CONDITIONS ON THE THIRD DAY.

III. EVENT PROBABILITIES 02 AUGUST - 04 AUGUST

CLASS M 63/63/60

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 AUGUST 145

PREDICTED 02-04 AUGUST 146/146/142

30-DAY MEAN 01 AUGUST 171

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 31 JULY 00

ESTIMATED AFR/AP 01 AUGUST 11/11

PREDICTED AFR/AP 02-04 AUGUST 10/10 - 10/14 - 06/12

SOLTERWARM

BT