

HFWS 3 BOU 200200

FROM SPACE ENVIRONMENT SERVICES CENTER, COLO

7 DAY FORECAST OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0200Z 20 JULY 1979

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THIS PERIOD.

THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO SLIGHTLY
ACTIVE THROUGH 21 JULY. THE FIELD SHOULD THEN BE UNSETTLED FOR
THE BALANCE OF THE PERIOD.

BT

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 201

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 20 JULY 1979

IA. SOLAR ACTIVITY INCREASED TO MODERATE LEVELS AS THE RESULT OF AN M1/IB FLARE AT 1947 UT (X-RAY MAX) FROM REGION 1878 (N29W55). THIS REGION HAS SHOWN DRAMATIC GROWTH OVER THE PAST 24 HOURS; INCREASING FROM AN INSIGNIFICANT UNSPOTTED PLAGE TO A COMPACT D-TYPE GROUP. REGION 1880 (N16W41) HAS ALSO SHOWN GROWTH PATTERNS AND HAS PRODUCED SEVERAL OPTICAL SUBFLARES THROUGHOUT THE DAY. DEVELOPMENT OF THE 1872 (S03E05) TRAILER PORTION HAS SLOWED AND HAS PRODUCED ONLY A FEW OPTICAL SUBFLARES. NEW REGION 1881 (N31E37) IS A SMALL A-TYPE GROUP. REMAINING REGIONS HAVE CHANGED LITTLE.

IB. SOLAR ACTIVITY SHOULD BE GENERALLY LOW OVER THE NEXT 24 HOURS. REGION 1878 IS CAPABLE OF PRODUCING ANOTHER ENERGETIC EVENT, HOWEVER THE THREAT IS NOT IMMINENT. ISOLATED M-CLASS EVENTS ARE ALSO POSSIBLE FROM REGIONS 1880 AND 1872.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THESE CONDITIONS WILL PERSIST FOR THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 21 JULY - 23 JULY

CLASS M 10/15/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JULY 142

PREDICTED 21 JULY - 23 JULY 145/149/154

90-DAY MEAN 20 JULY 174

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 JULY 14

ESTIMATED AFR/AP 20 JULY 11/15

PREDICTED AFR/AP 21 JULY - 23 JULY 10/15 08/12 08/15

SOLTERWARN

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