

HFUS-1-B OU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 153

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 02 JUNE 1979

IA. SOLAR ACTIVITY HAS INCREASED TO MODERATE LEVELS DURING THE PAST 24 HOURS. REGION 1781 (N19E44) CONTINUES ITS DEVELOPMENT IN SUNSPOT AND MAGNETIC COMPLEXITY. THIS REGION IS PRESENTLY A COMPACT D-SPOT GROUP POSSESSING A PATHOLOGICAL MAGNETIC STRUCTURE. REGION 1781 HAS PRODUCED SEVERAL SUBFLARES AND ASSOCIATED X-RAY BURSTS THROUGHOUT THE PREVIOUS 24 HOURS. THE MOST SIGNIFICANT WAS A SB/M1 AT 1449 UT (X-RAY MAX). REGION 1774 (N14E11) REMAINS A MODERATELY COMPLEX REGION, ALTHOUGH IT HAS NOT PRODUCED SIGNIFICANT FLARE ACTIVITY. REGION 1782 (S22E53) HAS PRODUCED A FEW FLARES OVER THE PAST 24 HOURS; THE LARGEST, A 1N/C5 AT 2037 UT (X-RAY MAX). NEW REGION 1787 (N07E16) IS A SMALL B-TYPE GROUP. REGION 1788 (S21E68) WAS PREVIOUSLY REGARDED AS THE TRAILER OF REGION 1782, BUT IS NOW BELIEVED TO BE A SEPARATE C-TYPE GROUP. REGION 1789 (N03E74) IS AN H-TYPE GROUP AND IS RETURNING REGION 1730 (NO SIGNIFICANT FLARES LAST ROTATION).

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS FOR THE NEXT 24 HOURS. REGION 1781 IS THE MOST LIKELY CANDIDATE FOR ENERGETIC EVENTS. REGIONS 1774 AND 1782, ALTHOUGH LESS THREATENING THAN 1781, ARE CAPABLE OF PRODUCING M-CLASS X-RAY EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED TO PERSIST WITH THE POSSIBILITY OF UNSETLED PERIODS LATER IN THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 03 JUNE - 05 JUNE

CLASS M 60/70/70

CLASS X 15/15/15

PROMPT 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JUNE 205

PREDICTED 03-05 JUNE 210/213/214

90-DAY MEAN 02 JUNE 177

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 01 JUNE 03

ESTIMATED AFR/AP 02 JUNE 04/09

PREDICTED AFR/AP 03-05 JUNE 06/14 - 08/08 - 08/17

SOLTERWARN

BT