

HFUS 1 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 176

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 JUNE 1980

IA. SOLAR ACTIVITY REMAINS MODERATE. SIGNIFICANT FLARE OCCURRENCES WERE: AN M4/1B IN REGION 2524 MAX 2321Z, AN M1/1B IN REGION 2530 (S23W15) AT 1959Z MAX, AN M2/1B, M1/SB IN REGION 2522 (S28W22) AT 2312Z, AND 1524Z MAX RESPECTIVELY. NUMEROUS C-CLASS X-RAY EVENTS HAVE OCCURRED ALL UNASSOCIATED WITH OPTICAL OBSERVATIONS.

RESTRUCTURING CONTINUES IN THE GROUP OF REGIONS SURROUNDING REGION 2530. REGION 2530 CONTINUES TO MOVE TOWARD REGION 2522 AND REGION 2519. AN ACTIVE NEUTRAL LINE IS ALSO OBSERVED NEAR THE FRONT OF THESE REGIONS BETWEEN REGION 2517 (S11W41), REGION 2519 (S20W27). REGIONS 2529 (S13E17), 2531 (S20E25), 2532 (S10E25) SHOWED NEAR FLARE BRIGHTNESS TODAY. NEW REGIONS 2537 (N18E72), 2538 (S18E73) HAVE MOVED OVER THE EAST LIMB. REGION 2524 (N22W70) IS ABOUT TO CROSS THE WEST LIMB.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. CONTINUED ACTIVITY MAY BE EXPECTED FROM REGIONS 2522, 2530, 2519 AND 2524. ALSO THE POSSIBILITY EXISTS FOR ACTIVITY FROM REGIONS 2516 AND 2517.

II. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED. ACTIVITY IS LIKELY TO DECREASE TOWARD QUIET LEVELS NEAR THE END OF THE FORECAST INTERVAL.

III. EVENT PROBABILITIES 25 JUNE - 27 JUNE

CLASS M 80/80/80

CLASS X 10/10/05

PROTON 05/05/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JUNE 244

PREDICTED 25-27 JUNE 238/235/232

90-DAY MEAN 24 JUNE 210

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 JUNE 07

ESTIMATED AFR/AP 24 JUNE 14/15

PREDICTED AFR/AP 25-27 JUNE 10/12 - 12/14 - 08/12

SOLTERWARN

BT