

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 181

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 JUNE 1980

IA. SOLAR ACTIVITY WAS MODERATE TODAY WITH FOUR M-CLASS X-RAY
FLARES. THE FIRST WAS AN M3.6 AT 0233Z WITH TYPE II AND TYPE IV
RADIO BURSTS BUT NO OPTICAL REPORT. THE SECOND WAS AN M4.2 AT
1038Z WITH A TENFLARE OF 410 FLUX UNITS AND 245 MHZ BURST OF
21,000 FLUX UNITS, AGAIN NO OPTICAL MEASUREMENTS. THE THIRD WAS
AN M1.9/SN AT 1800Z FROM REGION 2532 (S10W40). THE FOURTH WAS
AN M4.2 AT 1821Z FROM REGION 2530 (S24W83), THROWING EJECTA TO
0.23 RADII. THIS FLARE WAS ACCOMPANIED BY NUMEROUS SHORT WAVE
FADES AND RADIO BURSTS AT ALL MONITORED FREQUENCIES. REGION
2544 (S09W12) CONTINUED GROWING TO A D-TYPE SPOT GROUP. NO NEW
REGIONS WERE CONFIRMED TODAY.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE FOR ONE MORE DAY DUE
TO THE TRAILER OF REGION 2530, POTENTIAL IN 2532, AND RAPID
GROWTH OF REGION 2544, BECOMING LOW FOR THE FOLLOWING TWO DAYS.

II. THE GEOMAGNETIC FIELD WAS QUIET TODAY. THE FIELD IS EXPECTED
TO BECOME INCREASINGLY UNSETTLED FOR THE NEXT TWO DAYS, THEN
MILDLY UNSETTLED ON 02 JULY.

III. EVENT PROBABILITIES 30 JUNE - 02 JULY

CLASS M 40/30/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 JUNE 183

PREDICTED 30 JUNE - 02 JULY 177/172/165

90-DAY MEAN 29 JUNE 210

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 JUNE 03

ESTIMATED AFR/AP 29 JUNE 03/07

PREDICTED AFR/AP 30 JUNE - 02 JULY 09/10 - 10/12 - 07/08

SOLTERWARN

BT