

HFUS 1 BDU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 297

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 26 JULY 1979

I. SOLAR ACTIVITY CONTINUES TO BE LOW. THE LARGEST EVENT TODAY WAS A C6/SB FLARE AT 0900Z FROM REGION 1890 (N15E43). THIS REGION IS A PECULIAR CLASS D SPOT GROUP WITHIN A COMPACT AND COMPLEX MAGNETIC REGION, AND ASSOCIATED WITH A LARGE AND ACTIVE FILAMENT. GROWTH IN REGION'S 1887 (S15W14) AND 1888 (S14E07) HAS FORMED CLASS D GROUPS WITH ONLY SLIGHT MAGNETIC COMPLICATION. SEVERAL MINOR REGIONS HAVE APPEARED AT EAST LIMB IN BOTH HEMISPHERES.

II. CLASS M FLARES ARE EXPECTED FROM REGION 1890. SOLAR INDICES WILL RISE AS A BROAD ZONE OF ACTIVITY ROTATES AROUND EAST LIMB DURING THE NEXT THREE DAYS.

III. THE GEOMAGNETIC FIELD WAS VERY QUIET TODAY UNTIL 1830Z WHEN A SUDDEN IMPULSE OCCURRED, OFFSETTING THE FIELD DIRECTION. THIS EVENT OCCURRED AT BOTH SATELLITE AND GROUND LEVELS. ACTIVE CONDITIONS ARE EXPECTED DURING NIGHTIME HOURS TONIGHT, RETURNING TO UNSETTLED CONDITIONS FOR MOST OF THE FORECAST PERIOD.

IV. EVENT PROBABILITIES 27 - 29 JULY

CLASS M 50/60/70

CLASS X 25/45/10

PREDICTON 91/61/92

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 26 JULY 156

PREDICTED 27 - 29 JULY 165/170/175

30-DAY MEAN 26 JULY 172

VI. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 25 JULY 40/32

ESTIMATED AFR/AP 26 JULY 38/39

PREDICTED AFR/AP 27 - 29 JULY 15/15/10/10/08/08

SOLIERWARN

BT