

one station to every 265 square miles (687 square kilometres) of the *total area*¹ of Maryland.

Application was next made to the Honorable John G. Carlisle, then Secretary of the United States Treasury, under which department the Coast and Geodetic Survey is placed, for the loan to the State of Maryland of a complete Coast and Geodetic Survey magnetic outfit. In return for the loan of the instruments it was agreed that the Coast and Geodetic Survey should be furnished with the results of the magnetic survey.

This application was favorably acted upon and the instruments were turned over to me by the Coast and Geodetic Survey, at the request of the State Geologist. After some preliminary investigations conducted at Linden, it was possible to begin active operations early in September.

The instruments furnished by the Coast and Geodetic Survey were:

Dip Circle No. 56/4440 and stand.

Magnetometer No. 18 and stand.

Theodolite No. 163 and stand.

Mean Time Chronometer Bond No. 195.

Tent No. 25 "A" and poles.

50-foot Steel Tape No. 86.

On October 23d, the above-mentioned chronometer, which proved to be not in the very best condition, as it stopped at frequent intervals, it was possible to exchange for Mean Time Chronometer Dent No. 2256.

The C. & G. S. tent was found too heavy (weighing with poles easily 100 lbs. and possibly more) and took too much time and labor to put up and take down and pack for transportation. I therefore purchased one of Copeland's small, light lawn tents supported in the centre by a single pole. This tent gave every satisfaction and proved a great convenience. About five minutes were required to erect it or take it down and wrap for transportation. It was 7 x 7 feet square at the base and about 7½ feet high in the centre. The tent might

¹ Total area of Maryland is 12,210 square miles (31,624 square kilometres), of which 9860 square miles (25,538 square kilometres) consist of land area and 2350 square miles (6086 square kilometres) of water area.