

pendulum No. 2, it would only swing a very few hours, and the observations of that year were carried on with the two pendulums Nos. 1 and 3. Previous to commencing the 1915 work, pendulum No. 2 was repaired by slightly grinding the head of the pendulum where it rests on the lifter, and it has behaved very satisfactorily since. The periods of the three pendulums were determined in April, before commencing the season's campaign, again in July between the eastern and western work, and also in September after completing the season's work. There were changes in the lengths of the different pendulums during the summer, and these will be referred to later under "Variation in lengths of pendulums."

DESCRIPTIONS OF STATIONS

The pendulum stations observed in 1915 were referred, when possible to astronomic stations, and when no astronomic station was available, to survey posts. They are described as follows:

St. John, N.B. The pendulum pier was in the basement of the meteorological observatory, Douglas Ave., 109 ft. above mean sea-level, and 3284 ft. south and 4476 ft. west of astronomic station near corner of Lombard and Southwark streets, distance to astronomic station scaled from map of the city of St. John.

Moncton, N.B. The pendulum pier was in the basement of the general offices of the Intercolonial railway, 7 ft. below the level of the G.S.C. (Geodetic Survey of Canada) bench-mark on the east wall of the general office building, and 200 ft. north and 1000 ft. east of astronomic station, distance to astronomic station measured.

Charlottetown, P.E.I. The pendulum pier was in the battery room of the Western Union Telegraph company, 25 ft. above mean sea-level, and 329 ft. south and 57 ft. west of astronomic station, distance to astronomic station measured.

Sydney, N.S. The pendulum pier was in the basement of the Maritime Telephone and Telegraph office on Pitt street, 42 ft. above mean tide water, and 674 ft. south and 679 ft. east of astronomic station, distance to astronomic station scaled from map of the town of Sydney.

Truro, N.S. The pendulum pier was in the Western Union Telegraph stores, nearly opposite the I. C. R. station, on level with rail opposite station, and 722 ft. south and 785 ft. west of astronomic station, distance to astronomic station scaled from map of the town of Truro.

Halifax, N.S. The pendulum pier was in the battery room of the Western Union Telegraph company, near corner of Sackville and Hollis streets, 30 ft.