

## Observatory.

Latitude, N.  $45^{\circ} 30' 17''$ . Longitude,  $4^{\text{h}} 54^{\text{m}} 18^{\text{s}}.55$ .

Height above sea level 187 ft.

*Superintendent.*—C. H. MCLEOD, MA.E.

*Assistant Superintendent.*—G. H. CHANDLER, M. A.

*Assistant.*—E. H. HAMILTON, B. A. SC.

*Meteorological Observations* are made every fourth hour, beginning at  $3^{\text{h}} 0^{\text{m}}$  Eastern standard time. Independent bi-hourly temperature observations are also made. The principal instruments employed are the following:—Two standard mercurial barometers; one Kew standard thermometer; two Pastorelli thermometers; one maximum thermometer; one minimum thermometer; one set of six self-recording thermometers, with controlling clock battery, etc.; two anemometers; one wind vane (wind-mill pattern); one anemograph, with battery, etc.; one sunshine recorder; one rain-band spectroscope; one rain gauge; and several spare thermometers.

The Anemometer and Vane are on the summit of Mount Royal, at a point about three-quarters of a mile north-west of the Observatory. They are 57 feet above the surface of the ground and 810 feet above sea level.

*The Astronomical Equipment* consists of:—The Blackman Telescope ( $6\frac{1}{4}$  in.); a photoheliograph ( $4\frac{1}{2}$  in.); a  $3\frac{1}{4}$  in. transit, with striding level; two 2 in. transits, arranged as collimating telescopes; one sidereal clock; one mean-time clock; one sidereal chronometer; one mean-time chronometer; one chronograph; batteries, telegraph lines and sundry minor instruments.

Observations for clock errors are made on nearly every clear night. Time exchanges are regularly made with the Toronto Observatory. Time signals are distributed throughout the city by means of the noon time-ball, continuous clock signals and the fire alarm bells; and to the country, through the telegraph lines.

The photoheliograph, which has only recently been purchased, will be employed to obtain a photograph of the sun, once on each clear day.

The Blackman telescope is employed in occasional work and for educational purposes.