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XXX. On a new rain gauge

Rev. Thomas Knox M.R.I.A.

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giving the same mean result to four decimal places. Professor Hansteen has given .8428, which must be considered as a close coincidence.*

For Brussels I find by "No. I,"	0.960
by "Flat,"	0.965
Captain Sabine	0.951
M. Quetelet (4 series)	0.964
M. Rudberg	0.971

I subjoin a few comparisons of stations common to M. Quetelet's series† and mine.

	Quetelet.	Forbes, No. 1.
Castle of Heidelberg.....	1.020	} 1.017
Town of do.	1.024	
Königstuhl (summit).....	1.027	1.018
Geneva	1.080	1.076
Chamouni	1.093	1.085
St. Bernard	1.097	1.082
Martigny	1.092	1.083

[To be continued.]

XXX. On a New Rain Gauge. By the Rev. THOMAS KNOX, M.R.I.A.†

[With a Figure: Plate II.]

ON the 26th of June last, a new rain-gauge was exhibited to the Royal Irish Academy, contrived by the Rev. Thomas Knox.

The object of this instrument is to register the amount of rain that falls when the wind is in different points. Its construction is very simple. The water,—instead of descending from the reservoir directly into the tube of registry,—passes through a lateral tube into an annular-shaped vessel, divided into eight compartments, each of which terminates below in a graduated glass tube. It is obvious, then, that if the eight tubes be set to correspond with the cardinal and intermediate points, and that the reservoir be made to revolve on a vertical axis by means of a vane, the direction of which corresponds with that of the lateral tube, the object proposed will be attained. Mr. Knox has preferred to make the reservoir fixed, and the system of tubes moveable; but the result is obviously the same.

* Since this paper was read, this result has been still more nearly confirmed by the observations of Professor Bache of Philadelphia, who, by connecting Edinburgh and Dublin, and taking Professor Lloyd and Captain Sabine's observations for the comparative intensities at Dublin and Paris, has obtained the number .8400.

† See his two papers in the *Mémoires de l'Académie de Bruxelles*, tome iv.; and an abstract in the *Annuaire de l'Observatoire de Bruxelles*, 1834.

‡ From the Proceedings of the Royal Irish Academy, No. 5.

The Rev. Mr. Knox's Rain Gauge

Scales of Recent & Fossil Salmon