Prof. N. II. Winchell, in an article in the d'opular Science Monthy" for Jume Is: 3 , antitled "The Drift Deposits ol the NorthWest," broadly accomes for the glacial phenomem on the supposition of a polar shacier. Ilis illustrations are chicely borrowed from "areful study of the region sonth of the Civat lakes of the St. Lamrenee: hint as he inchudes the Valley of the Red River and the entive. North-west in his dediudions, a brief note may not be inappropriate. 'The most surgestive purtion of the paper is that in which, like Mr. Bedt. the traces the necessary prodnction of a great inland lake or sea of fresh water while the foot of such an ice-sheet as that suppsed gradually retreats fowards the north, down the gentle inclined phane of the surfice of the comutry. In this manner the finer stratified deposits of certain regions sonth of the (ireat Lakes are aceomed for, and also those of the great valley sonth of Lake Wimnipug.

Ingemions as this hypothesis of a great glacial lake mondontedy is, its inapplieability to the phomomena and phesien features presented by the reqion mider consideration is at once apparent. In addition to what has already bem said, I need perhaps mention bat one additional circmastance which appears diseordant with it.

From the phesicul meoraphy of the region it will be evident that the entire dramage of the supposed immonse lake must have passed sonthward hy the Red-liser valley. There is here no range of momutains to be crossed : and no reason can be assigned why a chanmil onee formed shond not have been cut down throngh the gentle swell of the watershed and remained the permanent, as it appears to have been the primitive, exit of the dmanage of the country.

The whole question is a very interesting one; and it would seem probable that the solntion oner ariwal at will be found to apply equally to Nothern America and Northem Asia.

## R:NiPaNATION OF PLATE NNMi.

Fig. 1. Map of garl of the inturior region of North Amerien, showing the watersheds and three primary levels of the phans, the general character of the drift, and the Jissomi ('otent. a. The Drift platean of Northern Minnesota, with drift chiedy of norhern and north-enstern origin. b. Lowest pratio-level and valley of the Red River. $c$. Sceond prairieplatean, drift deried chitily from the east and morth-east. d. Third or bighest prairie-phatem, 'ritt chiefly composed of quartzite from the Rocky Momnains, x. z. Misemmi Cotean.
2. General section along the thth parallel from the Rocky Mountains to the Lamorntian axis. Vertimal sale much exaggerated. $a, b, c, d x$, aud $z$ as in fig. I. $y$. Turtle Mountain.

