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ART. XIX.—*Observations on the Geology of St. John County, New Brunswick.* By G. F. MATTHEW, Esq.

As some interest in the geology of this vicinity has been excited by the articles of Professor Dawson on the Upper Devonian Flora of eastern America, in the 'Canadian Naturalist' and 'Journal of the Geological Society,' a few remarks on the lithology, stratigraphy, and distribution of the older deposits of this neighbourhood may not be unacceptable.

In presenting them, however, I would claim a considerate criticism of the errors of one who is only an amateur of the science. I have confined my observations to a limited district, because it seemed to me that more permanent additions would thus be made to our knowledge of the geology of this part of the province than would be obtained by rambling over a larger field.

If I have given more prominence to details than may seem necessary, it is because I anticipate that the structure of the district which I propose to describe will explain that of the broken and hilly region east and northeast of St. John; and in a minor degree that to the westward.

The Devonian age of certain deposits in Gaspé, Nova Scotia, and Maine, had been recognized before the existence of strata of this age in New Brunswick was ascertained.

In various parts of the Bay of Fundy, red sandstones had been observed. Some were referred to the carboniferous period while others were found to be of still later origin. The deposits to