

A casual reading of Dr. Gesner's reports would leave the impression that he continued to class his Upper Graywacke group with the Silurian; but no such classification is shown on his map, and if we examine his Fourth Report it will appear that this was not his final conclusion. There, in speaking of the Graywacke and slates of St. Stephen, which are colored as being of the same terrane as those of St. John, he calls them *Cambrian* system of Professor Sedgwick,\* and if his language be carefully examined I think it will be plain that he intended this remark to apply also to the Graywacke of St. John. By placing together the paragraphs from the different reports, the basis for this inference will be seen.

2nd REPORT.	3rd REPORT.	4th REPORT.	LAST REPORT.
<p>P. 3, l. 12—Since we have discovered the remains of <i>molluscs</i>, <i>animals</i>, <i>fossil trees</i>, and <i>anthracite</i> among these slates, * * * they may be classed with the <i>Silurian</i> group of Mr. Murchison.</p> <p>P. 8, l. 21.—A few strata of slate meet the chert and in them we found the remains of shells. They are all <i>terebratula</i>.</p>	<p>P. 5, l. 50.—Clay slates * * containing <i>marine animals</i> and <i>land plants</i> alternately, appear</p> <p>P. 7, l. 28.—In the upper series * * the remains both of <i>marine animals</i> and <i>land plants</i> were found, * * * and it appears that the <i>Silurian</i> group of Mr. Murchison is clearly developed in New Brunswick.</p>	<p>P. 19, l. 7.—The only fossils found * * consist of a few impressions of <i>terebratula</i> and <i>plants</i> analogous to those of the <i>coal period</i>. * * I am inclined to believe that they may be properly classed with the <i>Cambrian</i> system of Professor Sedgwick.</p>	<p>P. 73, l. 13.—<i>Cambrian System</i>. The few organic remains found in this group are sufficiently characteristic * * *</p> <p>The strata consist of graywacke, graywacke slate and clay slate.</p>

Dr. Gesner carefully gave the localities for the fossil shells and plants referred to in the second and third reports, but in his fourth report he does not mention any locality for shells or plant remains near St. Stephen; hence it may be inferred that the remarks quoted are of general application and based on the discoveries at St. John.

From these extracts, especially when taken in connection with the context, in the several reports, it appears to me plain that in his later reports, Gesner intended to refer to the *Cambrian*, the strata which in the second and third reports he had compared with the *Silurian*. This classification was adopted by Dr. Robb for the districts described in the fourth and last report, *but not for those of previous reports*, which on his map are colored as *Upper Silurian*.

\* Fourth Report, p. 19.

† There are really several.

