

Lower Silurian Series :—This series comprises, in ascending order, the following subdivisions :—1, The Potsdam Group ; 2, the Calciferous Group ; 3, The Chazy Formation ; 4, The Trenton Group ; 5, The Utica Slate Formation ; and 6, The Hudson River Formation.

Note :—The Calciferous and Chazy strata, as regards their occurrence in the neighbourhood of Quebec and throughout the Eastern Townships, are united by Sir William Logan under the term of the Quebec Group. It would also, perhaps, be more in conformity with Nature to unite the three latter divisions, as given above, and to arrange the whole as in the annexed Table. The term "Ontario Group" might be adopted for the proposed union of these higher formations.

Ontario Group.	{	Hudson River Formation.	{	The higher beds of the Upper Copper-bearing strata of L. Superior (?)
		Utica Formation.	=	
		Trenton Formation.		
		Bird's Eye and Black River Formation.		
Quebec Group.	{	Chazy or Sillery Formation.	{	The bottom beds of the Upper Copper bearing strata of L. Superior (?)
		Calciferous or Levis Formation.	=	
Potsdam Group.	{	Beauharnois Formation.	{	The bottom beds of the Upper Copper bearing strata of L. Superior (?)
		Kaaunistiquia Formation. (?)	=	

The Potsdam Group :—This subdivision, until a comparatively recent period, was known as the *Potsdam Sandstone*. Its stratified deposits may be arranged under the heads of: deep-sea strata: shallow-sea or shore-line deposits; and altered rocks. Of the deep-sea strata of the Potsdam epoch, merely uncertain indications have at present been obtained. Sir William Logan has suggested that some dark slates which are found to occupy a lower geological position than the Quebec beds of Point Levis,* may very possibly represent some of the deep-sea deposits of that period; whilst it is certain that the ordinary sandstones, of the epoch, were shore-line or coast deposits. This is proved by the presence of ripple marks, and tracks of crustacea or other animals, as well as by the general nature of the sediments of which these sandstones consist. The slates, however, may be of contemporaneous formation with the sandstones: a point at present unsettled. Another series of slate rocks and slaty conglomerates, somewhat resembling those of the Huronian series, associated with beds of chert (a flint-like variety of quartz, sometimes coloured black from the presence of anthracitic matter), grey dolomites, (weathering red), interstratified trap beds, and some

* In the pronunciation of this word the final letter is mute. Hence the word is often written Lévi.