

<i>Geographical subdivisions.</i>		<i>Systematic subdivisions, founded upon the fossil and lithological characters.</i>	
NEW-YORK SYSTEM.	CHAMPLAIN DIVISION.	1. Potsdam sandstone.	
		2. Calciferous sandrock.	
		3. Black-river Limestone group, embracing the Chazy and Birdseye.	
		4. Trenton limestone.	
		5. Utica slate.	
		6. Hudson-river group.	
		7. Grey sandstone.	
	ONTARIO DIVISION.	8. Oneida or Shawangunk conglomerate.	
		9. Medina sandstone.	
		10. Clinton group.	
		11. Niagara group, including shale and limestone	
		12. Onondaga-salt group.	
		13. Water-lime group.	
		14. Pentamerus limestone.	
		15. Delthyris shaly limestone.	
		16. Encrinal limestone.	
		17. Upper Pentamerus limestone.	
		HELDERBERG SERIES.	18. Oriskany sandstone
	19. Cauda-galli grit.		
	20. Schoharie grit.		
	21. Onondaga limestone.		
	22. Corniferous limestone.		
	23. Marcellus slate.		
	24. Hamilton group. {		Moscow shales.
			Encrinal limestones.
			Ludlowville shales.
	ERIE DIVISION.		25. Tully limestone.
		26. Genesee slates.	
27. Portage or Nunda group. {		Portage sandstone.	
		Gardeau flagstones	
		Cashaqua shale.	
	28. Chemung group		

No. 9 of my map includes Nos. 26, 27, and 28, or the Genesee, Portage, and Chemung groups, forming the upper or newer part of the Erie division of the New York system. Some allusion will be found to this formation, Vol. I., p. 58, and Vol. II., pp. 9—46.

No. 10.—*Hamilton Group*.—This formation includes the Moscow and Ludlowville shales, and the Marcellus slate of the above table of the New York system, and corresponds in many of its fossils with