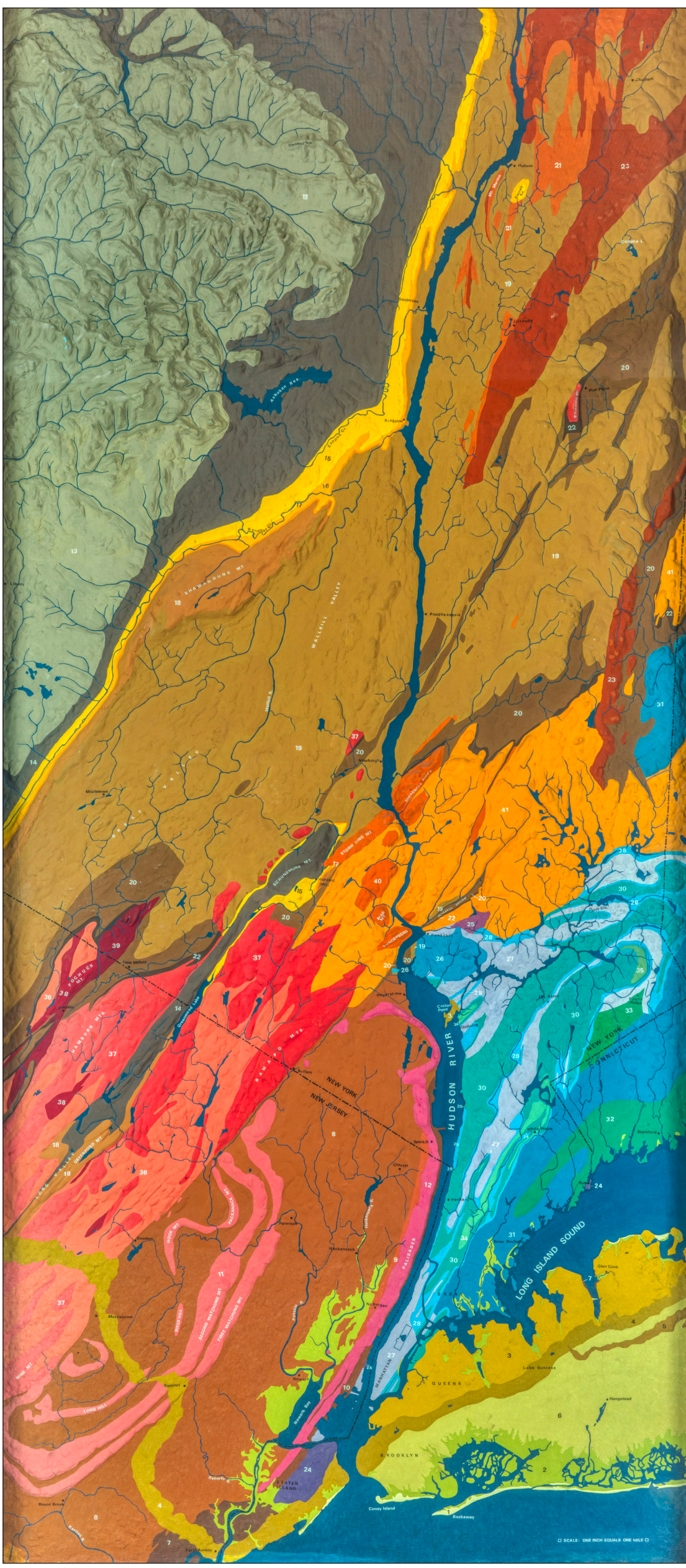


























# New York State Geological Map



# KEY for New York State Geological Map

#	Color	Formation Name	Material Category	Rock Description	Age
1		Beach Sands	unconsolidated sediments	sands	Recent
2		Back barrier island marsh deposits	unconsolidated sediments	sands, silts and clays	Recent
3		Glacial Till	unconsolidated sediments	unsorted gravel, sand, silt and clay	Pleistocene, Late Wisconsin
4		Harbor Hill Moraine	unconsolidated sediments	terminal moraine - unsorted gravel, sand, silt and clay	Pleistocene, Late Wisconsin
5		Ronkonkoma Moraine	unconsolidated sediments	terminal moraine - unsorted gravel, sand, silt and clay	Pleistocene, Early Wisconsin
6		Alluvial deposits of the out-wash plain	unconsolidated sediments	sorted gravel, sand, silt and clay	Pleistocene, Late Wisconsin
7		Raritan Formation	unconsolidated sediments	clays, silts, sands and greensand marls.	Late Cretaceous
8		Passaic Formation	sedimentary rock	arkose, shales, conglomerates	Late Triassic
9		Loskatong Formation	sedimentary rock	arkose, shales, conglomerates	Late Triassic
10		Stockton Formation	sedimentary rock	shale, silt stone, arkose	Late Triassic
11		Orange Mountain, Preakness and Hook Mountain Basalts	igneous rock	basalt	Triassic and Jurassic
12		Palisades Diabase	igneous rock	diabase	Early Jurassic
13		Katsberg Formation	sedimentary rock	red-beds: red sandstones and shales	Late Devonian
14		Ashokan Formation	sedimentary rock	shale, sandstones	Middle Devonian
15		Onondaga Limestone	sedimentary rock	limestone	Early - Middle Devonian
16		Glenerie to Rondout limestones	sedimentary rock	limestones, dolostones	Late Silurian - Early Devonian
17		Poxono Island Formation	sedimentary rock	shale	Late Silurian
18		Shawangunk Formation	sedimentary rock	conglomerate and shale	Late Silurian
19		Austin Glen & Normanskill Formations	sedimentary rock	graywacke, shale, argillite, siltstone	Middle Ordovician
20		Wappinger Group	sedimentary rock	dolostone, oolite, shale	Cambrian

#	Color	Formation Name	Material Category	Rock Description	Age
21		Germantown, Nassau & Stuyvesant Falls Formations	sedimentary rock	slate, shale, conglomerate, limestone, siltstone, quartzite	Cambrian-Ordovician
22		Poughquag Quartzite	metamorphic rock	quartzite	Cambrian
23		Everett Schist	metamorphic rock	schist	Cambrian
24		Harrison Gneiss	metamorphic rock	gneiss	Ordovician
25		Peekskill Pluton	igneous rock	muscovite-biotite granodiorite	Late Devonian
26		Cortlandt Mafic Complex	igneous rock	norite, diorite, pyroxenite	Late Ordovician
27		Manhattan Formation	igneous rock	schist , amphibolite	Ordovician
28		Inwood Marble	metamorphic rock	dolomite marble, granulite, and quartzite	Early Cambrian - Early Ordovician
29		Lowerre Quartzite	metamorphic rock	quartzite	Cambrian
30		Fordham Gneiss	metamorphic rock	granitic gneiss	Precambrian
31		Hartland Formation	metamorphic rock	amphibolite, pelitic schists	Cambrian - Ordovician
32		Harrison Gneiss	metamorphic rock	gneiss	Ordovician
33		Bedford Gneiss	metamorphic rock	gneiss	Ordovician
34		Yonkers Gneiss	metamorphic rock	gneiss	Middle Proterozoic
35		Poundridge Gneiss	metamorphic rock	granitic gneiss	Middle Proterozoic
36		Meta of uncertain origin	metamorphic rock	pyroxene-hornblend granitic gneiss	Middle Proterozoic
37		Undivided and mixed Gneisses	metamorphic rock	hornblend granitic gneiss and amphibolite	Middle Proterozoic
38		Meta of uncertain origin	metamorphic rock	garnet-biotite-quartz-feldspar gneiss, quartzite, gniess	Middle Proterozoic
39		Helderberg Group	metamorphic rock	calcitic and dolomitic marble	Early Devonian
40		Meta of uncertain origin	metamorphic rock	hornblend granite and granitic gneiss	Middle Proterozoic
41		Meta of uncertain origin	metamorphic rock	gneisses	Middle Proterozoic