Explanation



the Taconic Orogeny.

WLS COL 2.5-1

Lower Paleozoic basal transgressive clastic sequence and overlying dominantly carbonate platform sequence containing local clasic rocks

Continental slope-and-rise facies; locally may contain oceanic volcanic rocks and rift-facies rocks

IBKIAN

Multiply tectonized accretionary complex; Neoproterozoic to Lower Paleozoic mainly clastic metasedimentary rocks, schist, and gneiss containing metaclastic mélanges and subordinate amphibolite, meta-ultramafic rocks, and eclogite. Locally associated to units 1, 3, 4, 5, 6, 8 and 9.

Infrastructural magmatic-arc/oceanic rocks; gneiss, schist, metavolcanic rocks, and amphibolite, with local mélange and ultramafic bodies. Locally yield Neoproterozoic to Cambrian radiometric ages.

Suprastructural magmatic-arc and associated rocks

RECAMBRIAN

Lapetus rft facies; Meoproterozoic to Cambrian mainly clastic sedimentary rocks filling rift basins and associated magmatism related to lapetan rifting. Locally contains fragments of oceanic crust

Lapetus rft facies; encratonic magmatic rocks (ca. 750-680 Ma.) and associated sedimentary rocks; southern Appalachians

Grenville basement of Laurentian including ca. 1 Ga inliers within the hinterland; gneiss, schist, and plutonic rocks affected by the Grenille Orogeny and associated postorogenic granitoid bodies.

Modified from Hibbard et al. (2006)

WILLIAM STATES LEE III NUCLEAR STATION UNITS 1 & 2

Explanation of Lithotectonic Map of Appalachian Orogen

Rev 0