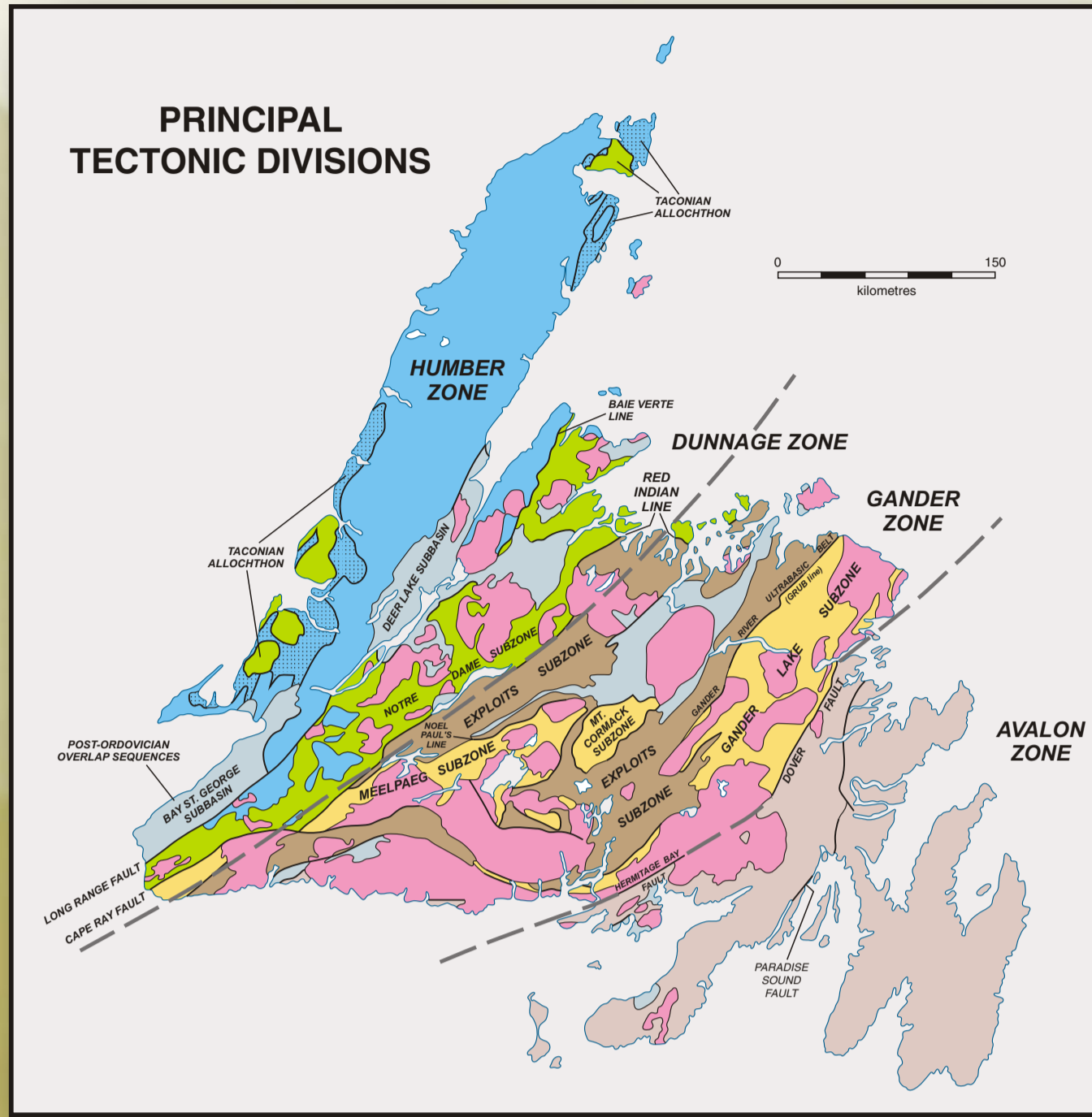


GEOLOGICAL MAP OF NEWFOUNDLAND



LEGEND

POST-ORDOVICIAN OVERLAP SEQUENCES

Carboniferous (Viséan to Westphalian)
 Fluvialite and lacustrine, siliciclastic and minor carbonate rocks; intercalated marine, siliciclastic, carbonate and evaporitic rocks; minor coal beds and mafic volcanic flows

Devonian and Carboniferous (Tournaisian)
 Fluvialite and lacustrine sandstone, shale, conglomerate and minor carbonate rocks

Silurian and Devonian
 Shallow marine sandstone, conglomerate, limy shale and thin-bedded limestone

Silurian
 Bimodal to mainly felsic subaerial volcanic rocks; includes unseparated sedimentary rocks of mainly fluvialite and lacustrine facies

Ordovician
 Shallow marine and non-marine siliciclastic sedimentary rocks, including sandstone, shale and conglomerate

HUMBER ZONE

Stratified rocks

Taconic allochthons and related rocks

Early and Middle Ordovician
 Shale-matrix melange, containing blocks of ophiolite, rift, continental slope and foreland basin rocks

Cambrrian to Middle Ordovician
 Continental slope facies: (within Taconic allochthons) sandstone, shale, thin-bedded to conglomeratic carbonate rocks, chert, mafic volcanic and minor metamorphic rocks; (within autochthon) metamorphic equivalents, including unseparated rocks of Middle Ordovician foreland basin and Neoproterozoic to Cambrian rift facies

Neoproterozoic and Cambrian
 Rift and transitional continental slope facies: (within Taconic allochthons) sandstone, shale, conglomerate and mafic volcanic rock; (within autochthon) metamorphic equivalents, including unseparated probable basement rocks and Cambrian to Ordovician rocks of continental slope and foreland basin facies

Autochthon and parautochthon

Middle Ordovician
 Shallow marine limestone, shale and sandstone

Early and Middle Ordovician
 Foreland basin facies: sandstone and shale turbidites, and carbonate breccia; calcareous and black shale, carbonate breccia and conglomerate

Shelf facies
 Shelf facies of foreland basin: limestone and dolostone

Cambrrian
 Shelf facies: thin-bedded limestone, dolostone and shale

Neoproterozoic and Cambrian
 Rift and transitional shelf facies: non-marine conglomerate, sandstone and mafic volcanic rocks; marine shale, sandstone, limestone, dolostone and limestone conglomerate

Neoproterozoic to Middle Ordovician
 Undivided siliciclastic and carbonate rocks; excludes siliciclastic rocks west of Long Range Mountains

Intrusive rocks

Neoproterozoic
 Granitoid intrusions

Mafic dykes

Basement rocks

Paleoproterozoic(?) and Mesoproterozoic
 Granitoid intrusions

Mafic and anorthositic intrusions

Granitoid orthogneiss and subordinate mafic gneiss and paragneiss

DUNNAGE ZONE

Stratified rocks

Late Ordovician and Early Silurian
 Melange, containing volcanic and sedimentary blocks of Middle and Late (?) Ordovician age

Turbidites
 Turbidites consisting of sandstone, shale and conglomerate; other marine sedimentary rocks

Middle and Late Ordovician
 Llandello to Ashgill black shale, slate and argillite, including subordinate chert and greywacke

Middle Ordovician
 Breccia, shale and sandstone

Cambrrian to Middle Ordovician
 Melange, containing sedimentary and volcanic blocks of Cambrian to Ordovician age

Marine siliciclastic sedimentary rocks
 Marine siliciclastic sedimentary rocks, including slate, shale, argillite, siltstone, sandstone, conglomerate, and minor unseparated carbonate, volcanic and intrusive rocks, and schist, gneiss and migmatite

Submarine mafic, intermediate and felsic volcanic rocks
 Submarine mafic, intermediate and felsic volcanic rocks, including mafic volcanic rocks of ophiolite complexes; includes unseparated intrusive, sedimentary and metamorphic rocks

Intrusive rocks

Cambrrian and Ordovician
 Granitoid intrusions, including trondhjemite of ophiolite complexes

Mafic intrusions
 Mafic intrusions, including unseparated granitoid rocks, and gabbro, diabase and trondhjemite of ophiolite complexes

Ultramafic rocks of ophiolite complexes

POST-ORDOVICIAN INTRUSIVE ROCKS

Mesozoic
 Gabbro and diabase

Devonian and Carboniferous
 Granite and high silica granite (sensu stricto), and other granitoid intrusions that are post-tectonic relative to mid-Paleozoic orogenies

Silurian and Devonian
 Gabbro and diorite intrusions, including minor ultramafic phases

Post-tectonic gabbro-syenite-granite-peralkaline granite suites and minor unseparated volcanic rocks
 Post-tectonic gabbro-syenite-granite-peralkaline granite suites and minor unseparated volcanic rocks (northwest of Red Indian Line); granitoid suites, varying from pre-tectonic to syntectonic, relative to mid-Paleozoic orogenies (southeast of Red Indian Line)

GANDER ZONE

Stratified rocks

Cambrrian(?) and Ordovician
 Quartzite, psammite, semipelite and pelite, including minor black slate, conglomerate, limestone, mafic and felsic volcanic rocks, and unseparated migmatitic rocks

Migmatite schist, gneiss, and minor amphibolite
 Migmatite schist, gneiss, and minor amphibolite, derived in whole, or in part from Cambrian(?) and Ordovician protoliths

Intrusive rocks

Ordovician
 Granite intrusions

AVALON ZONE

Stratified rocks

Central Newfoundland
 Neoproterozoic and Cambrian
 Siliciclastic sedimentary and volcanic rocks; amphibolite and quartzofeldspathic schist, gneiss and migmatite; includes unseparated granitoid and gabbro intrusions

Eastern Newfoundland
 Neoproterozoic to Early Ordovician
 Shallow marine, mainly fine grained, siliciclastic sedimentary rocks, including minor unseparated limestone and volcanic rocks

Neoproterozoic
 Fluvialite and shallow marine siliciclastic sedimentary rocks, including minor unseparated limestone and bimodal volcanic rocks

Bimodal, mainly subaerial volcanic rocks
 Bimodal, mainly subaerial volcanic rocks, including unseparated siliciclastic sedimentary rocks

Marine deltaic siliciclastic sedimentary rocks

Sandstone and shale turbidites
 Sandstone and shale turbidites, including minor unseparated tillite, olistostromes and volcanic rocks

Bimodal, submarine to subaerial volcanic rocks
 Bimodal, submarine to subaerial volcanic rocks, including minor siliciclastic sedimentary rocks

Pillow basalt, mafic volcaniclastic rocks, siliciclastic sedimentary rocks, and minor limestone and chert

Intrusive rocks

Neoproterozoic to Cambrian
 Mafic intrusions

Granitoid intrusions
 Granitoid intrusions, including unseparated mafic phases



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