

# A new tool to produce the map legend in ArcGIS

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## Examples (invalid scientific legends)

OBJECTID*	ELMENT	STYLE1	STYLE2	LABEL1	LABELSTYLE1	LABEL2	LABELSTYLE2	HEADING	ELMENT ORDER	ELMENT COLUMN	DESCRIPTION
1	Rate	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.1	1	This NOTE legend element is centered on the standard column width and could go on for multiple lines if needed.
11	Heading 1	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.1	1	-#Ab-
12	Heading 2	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Low or Cretaceous	1.2	1	-#Ab-
13	Unit Box	2.04.01.245	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Recent Formation	1.3	1	1 Sandstone, mudrock, basalt, minor coal
14	Unit Box	2.04.01.245	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Christopher Formation	1.4	1	1 Silty shale, siltstone
15	Heading 1	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.5	1	-#Ab-
16	Heading 2	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Upper Jurassic and low or Cretaceous	1.6	1	-#Ab-
17	Right Bracket Upper Part	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.7	1	-#Ab-
18	Unit Box	2.04.01.339	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Awingak, Deer Bay and Sackville formations	1.71	1	1 Sandstone, siltstone, shale, minor coal
20	Unit Box	2.04.01.375	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Barren, Hedges, Hecles Cove, Ringuhe, Awingak, Deer Bay and Sackville formations	1.711	0	0 Sandstone, siltstone, shale
19	Heading 1	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Jurassic	1.72	1	-#Ab-
20	Heading 2	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Upper Jurassic	1.73	1	-#Ab-
21	Unit Box	2.04.01.355	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Ringsen Formation	1.74	1	1 Silty shale, siltstone
22	Heading 1	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Triassic and Jurassic	1.75	1	-#Ab-
23	Heading 2	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Upper Triassic to Middle Jurassic	1.76	1	-#Ab-
24	Unit Box	2.04.01.369	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Barren, Hedges and Hecles Cove Formations	1.77	1	1 Mostly sandstone, minor siltstone, shale
25	Right Bracket Lower Part	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.8	1	-#Ab-
26	Heading 1	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	NEOPROTEROZOIC	1.81	1	-#Ab-
29	Unit Box	2.04.01.019	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	FRANKLIN DYKE	1.82	1	1 Diabase, gabbro, or olivine gabbro; medium to coarse-grained; 10-60 m wide; subvertical to steeply dipping.
30	Unit Box	2.04.01.019	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.83	1	1 Thin unit, defined.
31	Unit Box	2.04.01.019	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.84	1	1 Thin unit, inferred.
32	Heading 1	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	MESOPROTEROZOIC	1.85	1	-#Ab-
33	Heading 2	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.86	1	-#Ab-
140	Right Bracket Upper Part	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.87	0	-#Ab-
141	Unit Box	2.04.01.627	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Archie Point Formation	1.88	1	1 Grey to black, thinly bedded argillaceous limestone, calcareous shale and siltstone, locally contains stromatolite chert
142	Unit Box	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-		1.89	0	-#Ab-
35	Unit Box	2.04.01.103	-#Ab-	-#Ab-	-#Ab-	-#Ab-	-#Ab-	Victor Bay Formation	1.89	1	1 Grey to black, thinly bedded to massive argillaceous dolomite, argillaceous limestone and shale, locally contains chert

This NOTE legend element is centered on the standard column width and could go on for multiple lines if needed.

### CRETACEOUS

- Lower Cretaceous**
  - CH** Hesse Formation: sandstone, mudrock, basalt, minor coal
  - XC** Christopher Formation: silty shale, siltstone

### JURASSIC AND CRETACEOUS

- Upper Jurassic and Lower Cretaceous**
  - JA** Awingak, Deer Bay and Sackville formations: sandstone, siltstone, shale, minor coal

### JURASSIC

- Upper Jurassic**
  - JA** Ringsen Formation: silty shale, siltstone

### TRIASSIC AND JURASSIC

- Upper Triassic to Middle Jurassic**
  - TA** Barren, Hedges and Hecles Cove formations: mostly sandstone, minor siltstone, shale

### NEOPROTEROZOIC

- Franklin Dyke** (Franklin Dyke): gabbro, or olivine gabbro; medium to coarse-grained; 10-60 m wide; subvertical to steeply dipping. This unit, defined. This unit, inferred.

### MESOPROTEROZOIC

- Archie Point Formation** (Archie Point Formation): Grey to black, thinly bedded argillaceous limestone, calcareous shale and siltstone, locally contains stromatolite chert, limestone, and sandstone.
- Victor Bay Formation** (Victor Bay Formation): Grey to black, thinly bedded to massive argillaceous limestone, argillaceous limestone and shale, locally contains argillaceous conglomerate and breccia; upper sequence contains mostly poorly bedded to massive dolomite, uppermost units contain stromatolite limestone.
- Awingak Formation** (Awingak Formation): Outcrops, mostly consisting of cyclic packages of mineral limestone and partly bedded low-flow sandstone, locally contains horizons with chert nodules.
- Ringsen Formation** (Ringsen Formation): Outcrops with minor interbedded shale of various colors, grades to west into sandstone interbedded with grey shale, locally contains interbedded sandstone, dolomite nodules, in west, commonly contains ribbon limestone, irregular conglomerate; upper portions of formation contain gypsum-bearing horizons.
- Gypsum bed, defined.**
- Gypsum bed, approximate.**
- Archie Bay Formation - Upper member** (Archie Bay Formation - Upper member): Grey calcareous shale interbedded with limy siltstone, quartz sandstone, and brecciated, cherty, or stromatolite dolomite.
- Archie Bay Formation - Lower member** (Archie Bay Formation - Lower member): Dark grey to black shale interbedded with minor siltstone and rare quartz sandstone and dolomite.

### EGALULIK GROUP (EGAL)

- Adam Sound Formation** (Adam Sound Formation): Light grey to beige, fine- to medium-grained, laminated to medium-bedded quartz sandstone, basalt, basaltic sandstone, locally contains stromatolite limestone, locally contains shale and siltstone interbeds; commonly crossbedded.

### LUDLOW

- Cape Stone** (Cape Stone): Sandstone, grey, buff and brown weathering, very fine to fine grained, thin to thick bedded, laminated, mud-cracked, nodular, structures, stromatolite, micaceous, upper dolomite limestone, calcic and greenish, micaceous siltstone, siltstone, shale, mostly micaceous limestone and

### ORDOVICIAN AND SILURIAN

- Allen Bay** (Allen Bay): Sandstone, medium to thick bedded, light grey to yellowish brown, medium-grained, to an argillaceous, brownish shale, lower dolomite limestone, brown mottled, minor flat pebble conglomerate, local stromatolite limestone, local gypsiferous limestone (Dumfries band); common shallowing upward cycles, same and to and subtidal to supralittoral

### UNCONFORMITY

- Shale** (Shale): Interbedded with sandstone, grit and limestone; dark grey to black shale, micaceous sandstone, or grey conglomerate and minor limestone (Peggy's Cove). Dunes adjacent to the sedimentary rocks of Ordovician and Silurian. This unit is not included by a Lower Triassic quartz dyke (Franklin Dyke) where it unconformably overlies and is overlain by the unit in the Permian to Early Triassic, possibly representing part of an overlap sequence.

### QUATERNARY

#### HOLOCENE

- Alluvial sediments** (Alluvial sediments): alluvium, gravel, and sand.
- Floodplain sediments** (Floodplain sediments): gravel and sand, 2 to 20 m thick, active braided floodplains; includes active proglacial outwash.
- Fan sediments** (Fan sediments): gravel and sand, 2 to 20 m thick, forming fans.
- Marine and glacial-marine sediments** (Marine and glacial-marine sediments): gravel, sand, silt, and clay; deposited in deltaic and beach environments during regression of the postglacial sea.
- Beach sediments** (Beach sediments): gravel and sand, 1 to 5 m thick, forming ridges and swales.
- Deltaic sediments** (Deltaic sediments): clay, silt, sand, and gravel; 5 to 20 m thick, forming channeling/point bar sequences under distal-deltaic.
- Marine veneer** (Marine veneer): silt, clay, silt, and fine sand with disconformity; 1 to 2 m thick; deposited in deep-water proglacial environments.
- Siltstone** (Siltstone): Siltstone.
- Marine blanket** (Marine blanket): silt, clay, silt, and fine sand with disconformity and minor gravel; 2 to 10 m thick; deposited in deep-water proglacial environments.
- Glaciolacustrine sediments** (Glaciolacustrine sediments): clay, silt, sand, and gravel; deposited in glacial-dammed lakes in deep-water, beach, and deltaic environments.
- Glaciolacustrine veneer** (Glaciolacustrine veneer): silt, clay, silt, and fine sand with disconformity; 1 to 2 m thick; deposited in deep-water proglacial environments.
- Glaciolacustrine sediments** (Glaciolacustrine sediments): gravel and sand, deposited behind, at, and in front of, the ice margin.
- Terraced sediments** (Terraced sediments): gravel and sand, 1 to 10 m thick, forming terraces.
- Proglacial outwash-fan sediments** (Proglacial outwash-fan sediments): gravel and sand, 1 to 10 m thick; forming fans.

#### EARLY HOLOCENE AND WISCONSINAN

- Till veneer** (Till veneer): dimension: 0.5 to 2 m thick, discontinuous.
- Till blanket** (Till blanket): dimension: 2 to 10 m thick, forming an undulating blanket with ridges in places.
- Glacier or icefield or icecap** (Glacier or icefield or icecap):

#### PRE-QUATERNARY

- Bedrock, undifferentiated** (Bedrock, undifferentiated): rock of various compositions and ages (Jackson and Berger, 1997) variably modified by glacial erosion during the Quaternary and with patchy till cover; till and hummocky surfaces, ice-moulded in places, with late basins in subglacially formed regions.

#### ANTHROPOGENIC DEPOSITS

- Undifferentiated** (Undifferentiated):

#### ORGANIC DEPOSITS

- Fen deposits** (Fen deposits):
- Big deposits** (Big deposits):
- Salt marsh** (Salt marsh):
- Vegetation** (Vegetation):
- Blanket** (Blanket):
- Undifferentiated deposits** (Undifferentiated deposits):

#### EOLIAN SEDIMENTS

- Loess** (Loess):
- Dunes** (Dunes):
- Vegetation** (Vegetation):

### NEOARCHAIC

- Archie Point Formation** (Archie Point Formation): Grey to black, thinly bedded argillaceous limestone, calcareous shale and siltstone, locally contains stromatolite chert, limestone, and sandstone.

- Victor Bay Formation** (Victor Bay Formation): Grey to black, thinly bedded to massive argillaceous limestone, argillaceous limestone and shale, locally contains argillaceous conglomerate and breccia; upper sequence contains mostly poorly bedded to massive dolomite, uppermost units contain stromatolite limestone.

### MARY RIVER GROUP (272-275 Ga) (MARG-ARM)

- Mary River Group** (Mary River Group): Metagabbro, minor metadiorite, mostly gabbro and silt, mostly interbedded to argillaceous limestone and siltstone; green to black, argillaceous to argillaceous, clay or grain-size of some argillaceous metadiorite to siltstone, fine or medium and are probably common. Some

- Perrinville Group** (Perrinville Group): Metagabbro, minor metadiorite, mostly gabbro and silt, mostly interbedded to argillaceous limestone and siltstone; green to black, argillaceous to argillaceous, clay or grain-size of some argillaceous metadiorite to siltstone, fine or medium and are probably common. Some

- Statigraphic or intrusive contacts** (Statigraphic or intrusive contacts):

- Approximate (where constrained by remote sensed data/imaging)** (Approximate (where constrained by remote sensed data/imaging))

- Normal fault (solid circles indicate downthrown side)** (Normal fault (solid circles indicate downthrown side))

- Thrust fault (solid circles indicate hanging wall side)** (Thrust fault (solid circles indicate hanging wall side))

- Reverse fault** (Reverse fault)

- Strike-slip fault, normal, approximate** (Strike-slip fault, normal, approximate)

- Oblique-slip fault, normal, distal (solid circles indicate downthrown side)** (Oblique-slip fault, normal, distal (solid circles indicate downthrown side))

- Oblique-slip fault, normal, proximal (solid circles indicate downthrown side)** (Oblique-slip fault, normal, proximal (solid circles indicate downthrown side))

- Fault, motion undefined** (Fault, motion undefined)

- Approximate** (Approximate)

- Interbed** (Interbed)

- Concealed** (Concealed)

- Fault, system, upright** (Fault, system, upright)

- Approximate** (Approximate)

- Concealed** (Concealed)

Black or red structural symbols on map pertain to observations made in 2017. Grey symbols on map pertain to legacy measurements.

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