GSC Geologic Symbol Standard Style File - Surficial Symbols

These symbols accompany the GSC Surficial Geodatabase model version 2.3.14 and is up to date as of April 2018

Symbols are organized by legend order appearance

- **Isn** Glacier Ice or Snowpack: snowpacks (3.01.15.001)
- **I** Glacier Ice or Snowpack: Glacier-icefield-icecap (3.01.15.002)
- **H** Anthropogenic deposits: undifferentiated (3.01.14.715)
- **Owf** Organic deposits: fen (3.01.02.011)
- **Owb** Organic deposits: bog (3.01.02.013)
- **Ows** Organic deposits: salt marsh (3.01.02.015)
- **Ov** Organic deposits: veneer (3.01.02.023)
- **Ob** Organic deposits: blanket (3.01.02.025)
- **O** Organic deposits: undifferentiated (3.01.02.012)
- **El** Eolian sediments: loess (3.01.03.295)
- **Er** Eolian sediments: dunes (3.01.03.299)
- **Ev** Eolian sediments: veneer (3.01.03.292)
- **E** Eolian sediments: undifferentiated (3.01.03.297)
- **Cf** Colluvial and Mass-wasting deposits: fan (3.01.01.107)
- **Ca** Colluvial and Mass-wasting deposits: apron or talus scree (3.01.01.097)
  Ca1 - stratified, Ca2 - unstratified
- **Cz** Colluvial and Mass-wasting deposits: landslide (3.01.01.155)
  Cz1 - avalanche, Cz2 - mud flow, Cz3 - retrogressive thaw flow, Cz4 - rotational landslide, Cz5 - translational landslide
- **Cg** Colluvial and Mass-wasting deposits: rock-glacier (3.01.01.139)
- **Cv** Colluvial and Mass-wasting deposits: veneer (3.01.01.092)
- **Cb** Colluvial and Mass-wasting deposits: blanket (3.01.01.095)
- **C** Colluvial and Mass-wasting deposits: undifferentiated (3.01.01.152)
- **Ap** Alluvial sediments: floodplain (3.01.04.265)
- **Af** Alluvial sediments: fan (3.01.04.257)
- **Ai** Alluvial sediments: intertidal or estuarine (3.01.04.255)
- **At** Alluvial sediments: terraced (3.01.04.269)
- **Av** Alluvial sediments: veneer (3.01.04.252)
- **Ab** Alluvial sediments: blanket (3.01.04.267)
- **A** Alluvial sediments: undifferentiated (3.01.04.263)
- **Lr** Lacustrine sediments: beach (3.01.05.582)
- **Ld** Lacustrine sediments: deltaic (3.01.05.585)
- **Ln** Lacustrine sediments: littoral and nearshore (3.01.05.573)
- **Lo** Lacustrine sediments: offshore (3.01.05.577)
- **Lv** Lacustrine sediments: veneer (3.01.05.572)
- **Lb** Lacustrine sediments: blanket (3.01.05.575)
- **L** Lacustrine sediments: undifferentiated (3.01.05.583)
- **Mt** Marine sediments: terraced (3.01.06.495)
- **Mr** Marine sediments: beach (3.01.06.497)
- **Md** Marine sediments: deltaic (3.01.06.507)
- **Mi** Marine sediments: intertidal (3.01.06.492)
- **Mn** Marine sediments: littoral and nearshore (3.01.06.493)
- **Mo** Marine sediments: offshore (3.01.06.509)
- **Mv** Marine sediments: veneer (3.01.06.502)
- **Mb** Marine sediments: blanket (3.01.06.505)
- **M** Marine sediments: undifferentiated (3.01.06.503)
- **GMr** Glaciomarine sediments: beach (3.01.09.487)
- **GMd** Glaciomarine sediments: deltaic (3.01.09.525)
- **GMi** Glaciomarine sediments: intertidal (3.01.09.512)
- **GMn** Glaciomarine sediments: littoral and nearshore (3.01.09.513)
- **GMo** Glaciomarine sediments: offshore (3.01.09.519)
- **GMf** Glaciomarine sediments: submarine outwash fan (3.01.09.527)
- **GMm** Glaciomarine sediments: submarine moraine (3.01.09.517)
- **GMv** Glaciomarine sediments: veneer (3.01.09.483)
- **GMb** Glaciomarine sediments: blanket (3.01.09.485)
- **GM** Glaciomarine sediments: undifferentiated (3.01.09.515)
- **GLr** Glaciolacustrine sediments: beach (3.01.08.645)
- **GLd** Glaciolacustrine sediments: deltaic (3.01.08.613)
- **GLn** Glaciolacustrine sediments: littoral and nearshore (3.01.08.612)
- **GLo** Glaciolacustrine sediments: offshore (3.01.08.637)
- **GLf** Glaciolacustrine sediments: subaqueous outwash fan (3.01.08.615)
- **GLm** Glaciolacustrine sediments: subaqueous moraine (3.01.08.617)
- **GLh** Glaciolacustrine sediments: hummocky (3.01.08.635)
- **GLv** Glaciolacustrine sediments: veneer (3.01.08.642)
- **GLb** Glaciolacustrine sediments: blanket (3.01.08.647)
- **GL** Glaciolacustrine sediments: undifferentiated (3.01.08.643)
- **GFp** Glaciofluvial sediments: outwash plain (3.01.07.249)
- **GFt** Glaciofluvial sediments: terraced (3.01.07.237)
- **GFf** Glaciofluvial sediments: outwash fan (3.01.07.225)
  GFf1 - subaerial, GFf2 - subaqueous
- **GFh** Glaciofluvial sediments: hummocky (3.01.07.215)
- **GFc** Glaciofluvial sediments: ice-contact (3.01.07.217)
- **GFk** Glaciofluvial sediments: kame terrace (3.01.07.219)
- **GFr** Glaciofluvial sediments: esker (3.01.07.229)
- **GFv** Glaciofluvial sediments: veneer (3.01.07.223)
- **GFb** Glaciofluvial sediments: blanket (3.01.07.247)
- **GF** Glaciofluvial sediments: undifferentiated (3.01.07.235)
- **Tg** Glacial sediments: rock-glacierized moraine (3.01.10.357)
- **Th** Glacial sediments: hummocky till (3.01.10.375)
  Th1 - carbonate/calcareous
- **Tm** Glacial sediments: moraine complex (3.01.10.377)
  Tm1 - carbonate/calcareous
- **Tr** Glacial sediments: ridged till, moraine (3.01.10.385)
  Tr1 - carbonate/calcareous
- **Ts** Glacial sediments: streamlined till (3.01.10.387)
  Ts1 - carbonate/calcareous
- **Tp** Glacial sediments: till plain (3.01.10.439)
  Tp1 - carbonate/calcareous
- **Tx** Glacial sediments: weathered till (3.01.10.057)
  Tx1 - carbonate/calcareous
- **Tv** Glacial sediments: veneer (3.01.10.355)
  Tv1 - carbonate/calcareous
- **Tb** Glacial sediments: blanket (3.01.10.359)
  Tb1 - carbonate/calcareous
- **T** Glacial sediments: undifferentiated (3.01.10.373)
- **Wv** Weathered bedrock or regolith: veneer (3.01.11.175)
  Wv1 - carbonate/calcareous
- **Wb** Weathered bedrock or regolith: blanket (3.01.11.169)
  Wb1 - carbonate/calcareous
- **W** Weathered bedrock or regolith: undifferentiated (3.01.11.177)
  W1 - carbonate/calcareous
- **Vpy** Volcanic deposits: pyroclastic sediments (3.01.16.705)
- **V** Volcanic deposits: undifferentiated (3.01.16.707)
- **U** Undifferentiated deposits: undifferentiated (3.01.12.082)
- **R1** Bedrock: sedimentary (3.01.13.192)
- **R2** Bedrock: igneous (3.01.13.187)
- **R3** Bedrock: metamorphic (3.01.13.183)
- **R** Bedrock: undifferentiated (3.01.13.185)

- Annular depression: large (3.14.01.023)
- Annular depression: small (3.14.01.024)
- Nivation hollow (3.12.01.020)
  Centroid must be added with CartoRepresentation
- Evaporites (3.14.01.017)
- Recently deglaciated area (3.06.01.014)
  White pattern over colour of geological unit
- Thermokarst depression: large (3.12.01.017)
  Centroid must be added with CartoRepresentation
- Thermokarst depression: small (3.12.01.006)
- Patterned ground: large (3.12.01.016)
- Patterned ground: small (3.12.01.002)
- Felsenmeer: large (3.12.01.023)
- Felsenmeer: small (3.12.01.024)
- Dune: active dune field (3.05.01.005)
- Dune: large (3.05.01.003)
  Special marker symbol exists for legend
- Dune: small, paleowind direction unknown (3.05.01.009)
- Dune: small, paleowind direction known (3.05.01.008)
  Marker symbol should be oriented
- Extensive gullied terrain (3.14.01.005)
- Eolian lag deposit [deflation surface] (3.05.01.006)
- Lag deposit [washed scoured lag] (3.14.01.013)
- Reworked sediments [by waves, meltwater] (3.14.01.014)
- Surface boulder concentration [boulder lag] (3.14.01.015)
- Kettle: large (3.06.01.013)
  Centroid must be added with CartoRepresentation
- Kettle: small (3.06.01.001)
- Sinkhole: large (3.04.01.007)
  Centroid must be added with CartoRepresentation
- Sinkhole: small (3.04.01.001)
- Pit: large inactive (3.03.01.009)
  Centroid must be added with CartoRepresentation
- Pit: large active (3.03.01.009)
  Centroid must be added with CartoRepresentation
- Pit: small inactive (3.03.01.003)
- Pit: small active (3.03.01.002)
- Mine tailing (3.03.01.007)
- Made ground [fill] (3.03.01.006)
- Quarry: large inactive (3.03.01.010)
  Centroid must be added with CartoRepresentation
- Quarry: large active (3.03.01.010)
  Centroid must be added with CartoRepresentation
- Quarry: small inactive (3.03.01.005)
- Quarry: small active (3.03.01.004)
- Peat bog mining (3.03.01.008)
- Geological contact: defined (3.02.01.001)
- Geological contact: approximate (3.02.01.002)
- Geological contact: inferred (3.02.01.003)
- Geological contact: concealed (3.02.01.004)
- Limit of mapping (3.02.01.005)
- Tension fracture (3.09.01.010)
- Avalanche track: large (3.09.01.008)
- Avalanche track: small (3.09.01.001)
  Marker symbol should be oriented
- Debris flow track: large (3.09.01.009)
- Debris flow track: small (3.09.01.002)
  Marker symbol should be oriented
- Landslide: escarpment inactive (3.09.01.007)
  Special marker symbol exists for legend
- Landslide: escarpment active (3.09.01.006)
  Special marker symbol exists for legend
- Landslide: scar direction unknown (3.09.01.003)
- Landslide: scar direction known (3.09.01.003)
  Marker symbol should be oriented
- Retrogressive thaw flow: direction unknown (3.09.01.004)
- Retrogressive thaw flow: direction known (3.09.01.004)
  Marker symbol should be oriented
- Unspecified slope movement (3.09.01.005)
  Marker symbol should be oriented
- Cryoplanation terrace scarp (3.12.01.014)
- Limit of permafrost (3.12.01.015)
- Sediment transport direction: paleoflow unknown (3.14.01.022)
- Sediment transport direction: paleoflow known (3.14.01.021)
- Pre-existing coastline (3.13.01.011)
- Alluvial bar or levee ridge (3.14.01.009)
- Terrace scarp (3.13.01.004)
- Ravine scarp (3.14.01.011)
  Opposite side must be digitized backwards
  Special marker symbol exists for legend
- Erosional crest (3.14.01.020)
- Beach crest (3.13.01.002)
  Multiple lines must be digitized manually
  Special marker symbol exists for legend
- Limit of submergence: lacustrine approximate (3.11.01.012)
- Limit of submergence: lacustrine defined (3.11.01.011)
- Limit of submergence: marine approximate (3.11.01.014)
- Limit of submergence: marine defined (3.11.01.013)
- Limit of submergence: glaciomarine approximate (3.11.01.010)
- Limit of submergence: glaciomarine defined (3.11.01.009)
- Limit of submergence: glaciolacustrine approximate (3.11.01.008)
- Limit of submergence: glaciolacustrine defined (3.11.01.007)
- Iceberg scour: large (3.14.01.010)
- Iceberg scour: small (3.14.01.001)

- Spillway: central axis, paleocurrent direction unknown (3.10.01.017)
- Spillway: central axis, paleocurrent direction known (3.10.01.012)
- Paleodrainage direction (3.10.01.010)
- Meltwater channel: minor paleocurrent direction unknown (3.10.01.009)
- Meltwater channel: minor paleocurrent direction known (3.10.01.008)
- Meltwater channel: minor lateral (3.10.01.006)
  Uphill on left
- Meltwater channel: minor lateral (3.10.01.007)
  Uphill on right
- Meltwater channel: major paleocurrent direction unknown (3.10.01.005)
  Opposite side must be digitized backwards
  Special marker symbol exists for legend
- Meltwater channel: major paleocurrent direction known (3.10.01.005)
  Opposite side must be digitized backwards
  Paleodrainage direction symbol (3.10.01.010) must be present
  Special marker symbol exists for legend
- Subglacial meltwater corridor margin: approximate (3.10.01.016)
  Opposite side must be digitized backwards
  Special marker symbol exists for legend
- Subglacial meltwater corridor margin: defined (3.10.01.015)
  Opposite side must be digitized backwards
  Special marker symbol exists for legend
- Partly buried channel scarp (3.10.01.011)
  Opposite side must be digitized backwards
  Special marker symbol exists for legend
- Buried valley: central axis, paleodrainage direction unknown (3.10.01.014)
- Buried valley: central axis, paleodrainage direction known (3.10.01.013)
- Moraine ridge: minor large (3.06.01.012)
  Special marker symbol exists for legend
- Moraine ridge: minor small, orientation unknown (3.06.01.017)
- Moraine ridge: minor small, orientation known (3.06.01.015)
  Marker symbol should be oriented
- Moraine ridge: major lateral (3.06.01.006)
- Moraine ridge: major medial (3.06.01.008)
- Moraine ridge: major end (3.06.01.010)
- Moraine ridge: major lateral ice-cored (3.06.01.007)
- Moraine ridge: major medial ice-cored (3.06.01.009)
- Moraine ridge: major end ice-cored (3.06.01.011)
- Ice-contact scarp (3.07.01.007)
- Ice-pushed ridge (3.07.01.008)
- Ice-thrust ridge (3.07.01.009)
- Esker ridge: buried, paleocurrent direction unknown (3.07.01.004)
- Esker ridge: buried, paleocurrent direction known (3.07.01.003)
- Esker ridge: paleocurrent direction unknown (3.07.01.006)
- Esker ridge: paleocurrent direction known or inferred (3.07.01.005)
- Esker ridge: with beach ridge/strandlines, paleocurrent direction unknown (3.07.01.011)
- Esker ridge: with beach ridge/strandlines, paleocurrent direction known or inferred (3.07.01.010)
- Crevasse ridge (3.06.01.005)
- Buried drumlinoid ridge: large (3.08.01.015)
- Buried drumlinoid ridge: small (3.08.01.002)
  Marker symbol should be oriented
- Druminloid ridge: large(3.08.01.018)
- Drumlinoid ridge: small (3.08.01.005)
  Marker symbol should be oriented
- Buried drumlin ridge: large (3.08.01.014)
- Buried drumlin ridge: small (3.08.01.001)
  Marker symbol should be oriented
- Drumlin ridge: large (3.08.01.017)
- Drumlin ridge: small (3.08.01.004)
- Buried crag-and-tail ridge: large (3.08.01.046)
- Buried crag-and-tail ridge: small (3.08.01.045)
- Crag-and-tail ridge: large (3.08.01.016)
- Crag-and-tail ridge: small (3.08.01.003)
  Marker symbol should be oriented
- Pre-crag ridge: large (3.08.01.040)
- Pre-crag ridge: small (3.08.01.039)
  Marker symbol should be oriented
- Large groove: ice flow direction unknown (3.08.01.022)
- Large groove: ice flow direction known (3.08.01.021)
- Fluted bedrock or drift: poorly defined, central long axis - ice flow direction unknown large (3.08.01.034)
- Fluted bedrock or drift: poorly defined, central long axis - ice flow direction unknown small (3.08.01.030)
  Marker symbol should be oriented
- Fluted bedrock or drift: poorly defined, central long axis - ice flow direction known large (3.08.01.033)
- Fluted bedrock or drift: poorly defined, central long axis - ice flow direction known small (3.08.01.029)
  Marker symbol should be oriented
- Fluted bedrock or drift: central long axis - ice flow direction unknown large (3.08.01.020)
- Fluted bedrock or drift: central long axis - ice flow direction unknown small (3.08.01.007)
  Marker symbol should be oriented
- Fluted bedrock or drift: central long axis - ice flow direction known large (3.08.01.019)
- Fluted bedrock or drift: central long axis - ice flow direction known small (3.08.01.006)
- Cirque headwall (3.06.01.004)
- Arête (3.06.01.003)
- Ice-flow direction: unknown (3.08.01.025)
- Ice-flow direction: known (3.08.01.024)
- Limit of glaciation: approximate (3.11.01.006)
- Limit of glaciation: defined (3.11.01.005)
- Dispersal train margin: approximate (3.08.01.043)
  Left side
  Special marker symbol exists for legend
- Dispersal train margin: approximate (3.08.01.044)
  Right side
  Special marker symbol exists for legend
- Dispersal train margin: defined (3.08.01.041)
  Left side
  Special marker symbol exists for legend
- Dispersal train margin: defined (3.08.01.042)
  Right side
  Special marker symbol exists for legend
- Ice stream margin: approximate (3.11.01.004)
  Opposite side must be digitized backwards
- Ice stream margin: defined (3.11.01.003)
  Opposite side must be digitized backwards
- Ice divide: approximate (3.11.01.002)
- Ice divide: defined (3.11.01.001)
- Bedrock scarp (3.04.01.005)
- Lineament / lineation in bedrock (3.04.01.006)
- Palsa or lithalsa (3.12.01.001)
- Hummock (3.14.01.019)
- Pingo (3.12.01.003)
- Gelifluction or solifluction lobe (3.12.01.022)
- Rock glacier (3.12.01.004)
- Rock pingo (3.12.01.005)
- Rock blister (3.12.01.012)
- Rock burst (3.12.01.013)
- Paleowind measurement location (3.05.01.002)
  Marker symbol should be oriented
- Deflation landform: paleowind direction unknown (3.05.01.007)
- Deflation landform: paleowind direction known (3.05.01.001)
  Marker symbol should be oriented
- Spring, hotspring, cold water spring observation location (3.14.01.012)
- Piping depression (3.10.01.002)
- Alluvial fan: paleocurrent direction unknown (3.10.01.001)
- Alluvial fan: paleocurrent direction known (3.10.01.001)
  Marker symbol should be oriented
- Delta: paleocurrent direction unknown (3.13.01.010)
- Delta: paleocurrent direction known (3.13.01.001)
  Marker symbol should be oriented
- Ice-contact delta: paleocurrent direction unknown (3.07.01.001)
- Ice-contact delta: paleocurrent direction known (3.07.01.001)
  Marker symbol should be oriented
- Paleocurrent measurement: sediments (3.10.01.003)
  Marker symbol should be oriented
- Paleocurrent measurement: bedrock [p, s-forms] (3.10.01.004)
  Marker symbol should be oriented

- Ground ice observation (3.12.01.019)
- Erratic observation (3.14.01.002)
- Kame (3.07.01.002)
- Till fabric measurement location: ice flow direction unknown (3.08.01.026)
  Marker symbol should be oriented
- Till fabric measurement location: ice flow direction known (3.08.01.012)
  Marker symbol should be oriented
- Striation: poorly defined - ice flow direction unknown (3.08.01.009)
  Marker symbol should be oriented
- Striation: poorly defined - ice flow direction known (3.08.01.008)
  Marker symbol should be oriented
- Striation: well defined - ice flow direction unknown (3.08.01.011)
  Marker symbol should be oriented
- Striation: well defined - ice flow direction known (3.08.01.010)
  Marker symbol should be oriented
- Striation: legacy data, poorly defined - ice flow direction unknown (3.08.01.036)
  Marker symbol should be oriented
- Striation: legacy data, poorly defined - ice flow direction known (3.08.01.035)
  Marker symbol should be oriented
- Striation: legacy data, well defined - ice flow direction unknown (3.08.01.038)
  Marker symbol should be oriented
- Striation: legacy data, well defined - ice flow direction known (3.08.01.037)
  Marker symbol should be oriented
- Crossed Striations (3.15.01.001)
  Relative Age - annotation (2.03.01.005) must be added manually
- Tor (3.04.01.003)
- Mn Mineral occurrence (3.04.01.008)
  Mineral identification - annotation (2.03.01.003) must be added manually
- Gossan observation (3.14.01.004)
- Outcrop, small (3.04.01.002)
- Drillhole location (3.03.01.001)
- Fossil observation (3.14.01.003)
- Station location: remote observation (3.14.01.008)
- Station location: ground observation (3.14.01.007)
- 142 Dated sample location (3.14.01.018)
  Dated sample location - annotation (2.03.01.010) must be added manually
- 1400 Sample location (3.14.01.006)
  Sample location - annotation (2.03.01.007) must be added manually

SYMBOLOGY NOT SHOWN ON MAP

- Map unit polygon - to be defined (2.01.01.010)
- no colour no outline — Unmapped area (2.01.01.008)
- Geomorphological polygon - to be defined (2.01.01.009)
- Geological contact coincident with other feature: defined (2.01.01.002)
- Geological contact coincident with other feature: approximate (2.01.01.003)
- Geological contact coincident with other feature: inferred (2.01.01.004)
- Geological contact coincident with other feature: concealed (2.01.01.005)
- Limit of mapping - neatline (3.02.01.006)
- Geomorphological line - to be defined (2.01.01.001)
- ? Geomorphological point - to be defined (2.01.01.006)
- Field observation point - to be defined (2.01.01.007)

SPECIAL LEGEND ONLY SYMBOLS

- Dune crest (3.15.01.002)
- Landslide: escarpment inactive (3.15.01.005)
- Landslide: escarpment active (3.15.01.004)
- Ravine scarp (3.15.01.006)
- Beach crest (3.15.01.009)
- Meltwater channel: major, paleocurrent unknown (3.15.01.007)
- Meltwater channel: major, paleocurrent known (3.15.01.007)
- Subglacial meltwater corridor margin: approximate (3.15.01.013)
- Subglacial meltwater corridor margin: defined (3.15.01.012)
- Partly buried channel scarp (3.15.01.008)
- Moraine ridge: minor large (3.15.01.003)
- Dispersal train margin: approximate (3.15.01.011)
- Dispersal train margin: defined (3.15.01.010)

ANNOTATION

- Tvg — Reference letters - surficial (2.03.01.001)
- Ꞧkmg — Reference letters - bedrock (2.03.01.002)
- **Pb, Mn** — Mineral identification (2.03.01.003)
- *45* — Dip, strike, plunge values (2.03.01.004)
- 1 — Relative age (2.03.01.005)
- 27819 — Catalogue number (2.03.01.006)
- 1400 — Sample location, locality where age has been determined (2.03.01.007)
- BH DDH — Borehole, diamond drill hole (2.03.01.008)
- sh ss hs — Sinkhole, salt spring, hot spring (2.03.01.009)
- 10 620 ± 150 shells GSC-65 64 m — Dated sample location, radiocarbon date (2.03.01.010)
- LAMPERS — Lineament showing name (2.03.01.011)
- LEWIS FAULT — Fault names (2.03.01.012)
- LISGAR ANTICLINE — Fold name (2.03.01.013)
- *LYNN SHEAR ZONE* — Area feature names [e.g. shear zone] (2.03.01.014)
- Sullivan — Mining property names (2.03.01.015)
- **40** — Isograd lines, value (2.03.01.016)
- BIOTITE — Isograd descriptive text (2.03.01.017)
- C0148672 6400±3 — Fossil locality (2.03.01.018)
- *Unmapped* — Unmapped area (2.03.01.019)
- 8 — Photo numbers (2.03.01.020)
- **A A'** or **A B** — Cross-section indicators (2.03.01.021)
- **INSET A** — Figure numbers, insets (2.03.01.022)