

GSC Geologic Symbol Standard Style File - Surficial Symbols

These symbols accompany the GSC Surficial Geodatabase model version 2.3 and is up to date as of April, 2017

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)
EI	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)
Al	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 (3.01.04.287)
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)
GFI	Glaciofluvial sediments: terraced (3.01.07.237)
GFF	Glaciofluvial sediments: outwash fan (3.01.07.225) GFI - subaerial, GFI2 - subaqueous
GFl	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) Til - carbonates/calcareous
Tm	Glacial sediments: moraine complex (3.01.10.377) Tm1 - carbonates/calcareous
Tr	Glacial sediments: ridged till, moraine (3.01.10.385) Tr1 - carbonates/calcareous
Ts	Glacial sediments: streamlined till (3.01.10.387) Ts1 - carbonates/calcareous
Tp	Glacial sediments: till plain (3.01.10.439) Tp1 - carbonates/calcareous
Tx	Glacial sediments: weathered till (3.01.10.057) Tx1 - carbonates/calcareous
Tv	Glacial sediments: veneer (3.01.10.355) Tv1 - carbonates/calcareous
Tb	Glacial sediments: blanket (3.01.10.359) Tb1 - carbonates/calcareous
T	Glacial sediments: undifferentiated (3.01.10.373)
Wv	Weathered bedrock or regolith: veneer (3.01.11.175)
Wb	Weathered bedrock or regolith: blanket (3.01.11.169)
W	Weathered bedrock or regolith: undifferentiated (3.01.11.177)
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)
	Evaporites (3.14.01.017)
	Recently deglaciated area (3.06.01.014) Note: marker symbol needs to be legend
	Thermokarst depression: large (3.12.01.017) Central oval to be added with CartographicMarker
	Thermokarst depression: small (3.12.01.008)
	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) Marker symbol needs to be legend
	Dune: small, paleowind direction unknown (3.05.01.009)
	Dune: small, paleowind direction known (3.05.01.008) Marker symbol needs to be legend
	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 field) (3.14.01.015)
	Kettle: large (3.06.01.013) Central oval to be added with CartographicMarker
	Kettle: small (3.06.01.001)
	Sinkhole: large (3.04.01.007) Central oval to be added with CartographicMarker
	Sinkhole: small (3.04.01.001)
	Pit: large inactive (3.03.01.009) Central oval to be added with CartographicMarker
	Pit: large active (3.03.01.009) Central oval to be added with CartographicMarker
	Pit: small inactive (3.03.01.003)
	Pit: small active (3.03.01.002)
	Mine tailing (3.03.01.007)
	Made ground (fill) (3.03.01.008)
	Quarry: large inactive (3.03.01.010) Central oval to be added with CartographicMarker
	Quarry: large active (3.03.01.010) Central oval to be added with CartographicMarker
	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)
	Debris flow track: large (3.09.01.009)
	Debris flow track: small (3.09.01.002) Marker symbol needs to be legend
	Landslide: escarpment inactive (3.09.01.007) Special marker symbol needs to be legend
	Landslide: escarpment active (3.09.01.006) Special marker symbol needs to be legend
	Landslide: scar direction unknown (3.09.01.003)
	Landslide: scar direction known (3.09.01.003) Marker symbol needs to be legend
	Retrogressive thaw flow: direction unknown (3.09.01.004)
	Retrogressive thaw flow: direction known (3.09.01.004) Marker symbol needs to be legend
	Unspecified slope movement (3.09.01.005) Marker symbol needs to be legend
	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) Special marker symbol needs to be legend
	Erosional crest (3.14.01.020)
	Beach crest (3.13.01.002) Marker needs to be legend to identify boundary Special marker symbol needs to be 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) Central oval to be added with CartographicMarker
	Meltwater channel: minor lateral (3.10.01.007) Central oval to be added with CartographicMarker
	Meltwater channel: major paleocurrent direction unknown (3.10.01.005) Central oval to be added with CartographicMarker
	Meltwater channel: major paleocurrent direction known (3.10.01.005) Central oval to be added with CartographicMarker
	Subglacial meltwater corridor margin: approximate (3.10.01.016) Central oval to be added with CartographicMarker
	Subglacial meltwater corridor margin: defined (3.10.01.015) Central oval to be added with CartographicMarker
	Partly buried channel scarp (3.10.01.011) Central oval to be added with CartographicMarker
	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 needs to be legend
	Moraine ridge: minor small, orientation unknown (3.06.01.017)
	Moraine ridge: minor small, orientation known (3.06.01.015) Marker symbol needs to be legend
	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 ridges/strandlines, paleocurrent direction unknown (3.07.01.011)
	Esker ridge: with beach ridges/strandlines, paleocurrent direction known or inferred (3.07.01.010)
	Crevasse ridge (3.06.01.005)
	Drumlinoid ridge: buried large (3.08.01.015)
	Drumlinoid ridge: buried small (3.08.01.002) Special marker symbol needs to be legend
	Drumlinoid ridge: large (3.08.01.018)
	Drumlinoid ridge: small (3.08.01.005) Marker symbol needs to be legend
	Drumlin ridge: buried large (3.08.01.014)
	Drumlin ridge: buried small (3.08.01.001) Marker symbol needs to be legend
	Drumlin ridge: large (3.08.01.017)
	Drumlin ridge: small (3.08.01.004)
	Crag-and-tail ridge: large (3.08.01.016)
	Crag-and-tail ridge: small (3.08.01.003) Marker symbol needs to be legend
	Pre-crag ridge: large (3.08.01.040)
	Pre-crag ridge: small (3.08.01.039) Marker symbol needs to be legend
	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) Special marker symbol needs to be legend
	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) Special marker symbol needs to be legend
	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 needs to be legend
	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)
	Dispersal train margin: approximate (3.08.01.044) Special marker symbol needs to be legend
	Dispersal train margin: defined (3.08.01.041) Special marker symbol needs to be legend
	Dispersal train margin: defined (3.08.01.042) Special marker symbol needs to be legend
	Ice stream margin: approximate (3.11.01.004) Central oval to be added with CartographicMarker
	Ice stream margin: defined (3.11.01.003) Central oval to be added with CartographicMarker
	Ice divide: approximate (3.11.01.002)
	Ice divide: defined (3.11.01.001)
	Bedrock scarp (3.04.01.005)
	Lineament / Inclusion 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 needs to be legend
	Deflation landform: paleowind direction unknown (3.05.01.007)
	Deflation landform: paleowind direction known (3.05.01.001) Special marker symbol needs to be legend
	Spring, hot spring, 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) Special marker symbol needs to be legend
	Delta: paleocurrent direction unknown (3.13.01.010)
	Delta: paleocurrent direction known (3.13.01.001) Special marker symbol needs to be legend
	Ice-contact delta: paleocurrent direction unknown (3.07.01.001)
	Ice-contact delta: paleocurrent direction known (3.07.01.001)
	Paleocurrent measurement: sediments (3.10.01.003)
	Paleocurrent measurement: bedrock (p, s-forms) (3.10.01.004) Special marker symbol needs to be legend
	Ground ice observation (3.12.01.019)
	Erratic observation (3.14.01.002)

	Kame (3.07.01.002)
	Tilt fabric measurement location: ice flow direction unknown (3.08.01.026) Marker symbol needs to be legend
	Tilt fabric measurement location: ice flow direction known (3.08.01.012) Marker symbol needs to be legend
	Striation: poorly defined - ice flow direction unknown (3.08.01.009) Special marker symbol needs to be legend
	Striation: poorly defined - ice flow direction known (3.08.01.008) Special marker symbol needs to be legend
	Striation: well defined - ice flow direction unknown (3.08.01.011) Special marker symbol needs to be legend
	Striation: well defined - ice flow direction known (3.08.01.010) Special marker symbol needs to be legend
	Striation: legacy data, poorly defined - ice flow direction unknown (3.08.01.036) Special marker symbol needs to be legend
	Striation: legacy data, poorly defined - ice flow direction known (3.08.01.035) Special marker symbol needs to be legend
	Striation: legacy data, well defined - ice flow direction unknown (3.08.01.038) Special marker symbol needs to be legend
	Striation: legacy data, well defined - ice flow direction known (3.08.01.037) Special marker symbol needs to be legend
	Crossed Striations (3.15.01.001) Special marker symbol needs to be legend
	Tor (3.04.01.003)
	Mineral occurrence (3.04.01.008) Special identification - reviewed 12.03.01.003 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 (3.1