

The following was presented at DMT'11 (May 22-25, 2011).

The contents are provisional and will be superseded by a paper in the DMT'11 Proceedings.

See also earlier Proceedings (1997-2010) http://ngmdb.usgs.gov/info/dmt/

Map units			Science Language fo	r an Integrated	GSC Data Mod	del for
Map unit definition Genesis groups: Categories: A map unit is defined as an area of ground distinguishable from surrounding areas on the basis of field and/or remotely sensed data (e.g. aerial photographs). Map units are based on sediment type, structure, thickness, stratigraphy, physical extents, and other properties that are observed and recorded in the field. Units are sediments organiques Colluvial and mass-wasting deposits Dépôts de versants Undifferentiat 0 Organic deposits Sciences Organic deposits Sciences Dépôts non différences	ciés H, I, K, A geological event is an identifiable event during which one or geologic entities. A geologic event may have a specified geologi Conceptual Model 1.0, Open-File Report 2004-1334). Different event	or more geologic processes act to modify ic age and geologic environment. (NADM vents will be defined in an additional "event	Science Language io Surficial Maps	i un integrateu		
delineated either in the field or on imagery based on, for example, morphology, tone, texture, patterns, and feature orientation. The above attributes are then used to infer environment of deposition, genesis, and relative geological age (see Geological events). Field sites show where the map unit has been ground truthed and where the map is based on geological inference. Eolian sediments Eolian sediments Undifferentiat A Alluvial sediments Sédiments alluviaux – Undifferentiat	ted sediments ifférenciés A, ted sediments n différenciés E, GF, GL, GM, L, M, T, n différenciés n différenciés n Time designators Neoglacial nTb	Map label Designated colour (ex.) Tb light green	By Geological Survey of Ca	nada Surficial Logon	d Review Committe	ee
A map unit is defined with a combination of upper- and lower-case letters that constitute the Map unit designators (e.g. Cz, Ap). One or two upper-case letter(s) define the Genesis group that is the dominant primary genesis of the sediments (process and/or environment of deposition) (e.g. GL = glaciolacustrine, A = alluvial sediments). It is followed by one or two lower-case letters that define the Category and reflect one of the following: morphology, environment of deposition, thickness of deposit, or secondary processes.	is scree deposits Ca, ulis *Holocene rsants continus Cb, *Late Wisconsin(an) wTb wTb	Tb medium green	Geological Survey of Canad	la, Technical note		
O.Tb designates an area of organic deposits with numerous outcrops of till blanket). In such instances, a dot (".") separates the map unit designators. Also, stratigraphic relationship can be shown with a maximum of two	couverture continue GFb, GFb, GFb,		Work in progress 2011-05-0	J4; contact: dkerr@n	ircan.gc.ca	
(".") separates the map unit designators. Also, stratigraphic relationship can be shown with a maximum of two map-unit designators separated by a slash ("/") (e.g. Ev/GF interpreted as Ev (colian veneer) overlying GF (glaciofluvial) sediments). In both cases of using multiple map-unit designators, the first or the overlying designator determines the map-unit colour. The use of complex designators is not recommended where it is otherwise implicit (e.g. Tv.R or Tv/R). Surficial geology mappers are encouraged to limit the use of complex Glaciomarine sediments b Till en couver b Deep water see Sediments c Glacial sediments Sediments glaciomarins b Offshore sediments	ediments, blanket Lb, Amundsen glaciation aTb cau profonde en couverture continue GLb, GMb, Mb, Thomsen glaciation ccLb man profonde en couverture continue GLb, GMb, Mb, Thomsen glaciation tTb	Lb light purple				
In the legend, map units should be described in the following order: grain size, structure, colour, thickness (minimum and maximum), morphology, stratigraphic relationships, depositional environment, and other characteristic features. W Weathering deposits Dépôts de météorisation C Ice-contact sectority of the sectority o	bediments GFc, ments GFL CMLLLMU	Lb dark purple	Introduction			
H Anthropogenic deposits Dépôts anthropiques f Fan sediments Cône	tuariens Ae, Gladstone glaciation gTb is Cf, Buckland glaciation buTb Reid glaciation rTb					
Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator Image: Complex map unit designator	Af, Nansen glaciation nsTb putwash fan sediments GFf, GLf, Pre-Reid glaciations prTb Other: ice masses Other: ice masses		dissemination of geologic map	information. This data m	nodel is designed for su	urficial geology
Examples Ap O.Tb Cz Ev/GF GFt *Map-unit designator 1 Ap O Cz Ev GFt Map-unit subcategory Imud flow Imud flow Imud flow Imud flow Imud flow	épendage sous-marin GMf, eux Cg, ized moraines Tage					
Map-unit subcategory 2 Image: Complex in the subcategory 2 <td>time period and identified in map legend. Ex - "Last Glaciation"</td> <td>osits are of the same</td> <td>dissemination components.</td> <td></td> <td></td> <td></td>	time period and identified in map legend. Ex - "Last Glaciation"	osits are of the same	dissemination components.			
Geological event 2 Reid Glaciation Intertidal sedim	iments Mi		· · · · · · · · · · · · · · · · · · ·		``	geomorphologic
m Moraine m Subaqueous m Complexe mo	moraine complex orainique glaciolacustre GLm,		•			ating a standard
Im Complex de m Complex de m Im Im Complex de m Im Littoral and me Sédiments litte Floodplain see	moraine glaciomarine GVnin, tearshore sediments GLn, GMn, Ln, Mn, toraux et prélittoraux .		surficial geology map to be use	d in all new surficial geo	-	
p Subactial outwork Sediments d'ég Beach sediment	wash plain sediments épandage proglaciaire subaérien GFp, ents GL CM L M		the compilation of existing and n	ew maps.		
r Bunes Dunes r Esker Esker	Er, GFr,					
I Moraine côtele s Snow packs Amas de neige	lée II, ge - Congères Is,					-
S Grèze litée st Streamlined ti ????? 2	ill Tst,	Observation featu	ures			
t Terraced sedir Sédiments de t	iments Mt, iments CTr	334 - Drillhole				Field Obs. and Meas. (points)
v Residual vene Residual vene Residual vene Veneer: thin, o	terrasses fluvioglaciaires Wv, couverture mince et discontinue Cru	370 - Mine tailing 381 - Peat bog mining 385 - Pit	444 - Made ground 445 - Mine tailing 453 - Peat bog mining 454 - Pit		426 - Pit	
v Veneer: thin, or Sediments en	discontinuous couverture mince et discontinueAv, Ev, GFv, GLv, GMv, Lv, Mv,discontinuous rture mince et discontinueTv,	387 - Quarry	456 - Quarry		428 - Quarry	Field Obs. and Meas. (points)
wf Fen deposits Sédiments de s Salt marsh	marécages et de marais Owf,		n bedrock 459 - Area of sinkholes	494 - Lineament or lineation in bedrock	-	
ws Marais salant x Reworked till Till remanié Landslide dep	I Tx,	407 - Tor 218 - EOLIAN FEATURES		Observations as lines	437 - TorObservations as points	Field Obs. and Meas. (points)
Map unit designators and symbols Map-unit designator Symbol code Genesis Category Subcategory En. Comments		337 - Dune 149 - Eolian lag deposit	442 - Active dune field 150 - Eolian lag deposit	478 - Dune crest		516 - Paleowind direction means
Cs 166 Colluvial and mass-wasting deposits Dépôts de versants Stratified scree deposits Grèze litée Stratified scree deposits Call L56 Colluvial and mass-wasting deposits Apron or talus scree deposits		397 - Sediment transport direct.220 - GLACIAL FEATURES	tion			
Ca 156 Dépôts de versants Dépôts d'éboulis Cf 289 Colluvial and mass-wasting deposits Dépôts de versants Fan sediments Cône avalanche;		321 - Arete 326 - Cirque 330 - Crevasse ridge		464 - Arete 469 - Cirque headwall 473 - Crevasse ridge	419 V-41	
Cz378Colluvial and mass-wasting deposits Dépôts de versantsLandslide deposits Dépôts de glissementmud flow; retrogressive thaw flow; rock fall; rotational landslide; translational landslide;		 359 - Kettle 371 - Moraine - major 372 - Moraine - other 	443 - Kettle	498 - Major moraine ridge499 - Other moraine ridge		
Cg 358 Colluvial and mass-wasting deposits Dépôts de versants Rock glacier Glacier rocheux unspecified Chance 200 Colluvial and mass-wasting deposits Blanket > 2 m; To describe collu		342 - Esker 343 - Esker, buried	FURES Observations as areas	481 - Esker ridge467 - Buried esker ridge		Field Obs. and Meas. (points)
389 Dépôts de versants Dépôts de versants Dépôts de versants continuous slopes and valley walls Cv 258 Colluvial and mass-wasting deposits Veneer: thin, discontinuous <2 m; To describe collu	uviated glacial deposits on	354 - Ice-contact delta355 - Ice-contact terrace109 - Ice-pushed ridge		488 - Ice-contact terrace scarp110 - Ice-pushed ridge	416 - Ice-contact delta	
489 Dépôts de versants Dépôts non différenciés Image: Constant des services Map-unit designator Symbol code Genesis Category Subcategory En. Comments Owf 002 Organic deposits Fen deposits Fen deposits Subcategory En. Subcategory En. Subcategory En.	at)		DICATORS Observations as areas	Observations as lines	Observations as points	Field Obs. and Meas. (points)
Own 992 Sédiments organiques Sédiments de marécages et de marais > 1 m; Wetland fen (pea Owb 993 Organic deposits Sédiments organiques Bog deposits Sédiments de tourbières > 1 m; Wetland bog (pea Owb 993 Organic deposits Sédiments organiques Salt marsh > 1 m; Wetland bog (pea		329 - Crag-and-tail	iting	567 - Buried drumlinoid ridge or fluting472 - Crag-and-tail ridge	124 - Buried drumlinoid or fluting119 - Crag-and-tail	
Ows 994 Sédiments organiques Marais salant Image: Comparise of the second		335 - Drumlin336 - Drumlinoid344 - Fluted bedrock		476 - Drumlin ridge477 - Drumlinoid ridge or fluting	120 - Drumlin121 - Drumlinoid or fluting	
designator code Selfests Category Subcategory Connents Er 125 Eolian sediments Sédiments éoliens Dunes Dunes El 128 Eolian sediments Loess Loess		350 - Groove, large356 - Ice-flow measurements		484 - Large groove central long axis		
El 128 Sédiments éoliens Loess Ev 115 Eolian sediments Sédiments éoliens Veneer: thin, discontinuous Sédiments en couverture mince et discontinue </td <td></td> <td> 346 - Geological boundary 362 - Limit of mapping 224 - MASS-WASTING </td> <td>Observations as areas</td> <td>509 - Geological boundary510 - Limit of mapping</td> <td></td> <td></td>		 346 - Geological boundary 362 - Limit of mapping 224 - MASS-WASTING 	Observations as areas	509 - Geological boundary510 - Limit of mapping		
E 155 Sédiments éoliens Sédiments non différenciés Image: Comments sediments Map-unit designator Symbol code Genesis Category Subcategory En. Comments Anno 100 Alluvial sediments Floodplain sediments Floodplain sediments Floodplain sediments Floodplain sediments		360 - Slope movement		490 - Landslide escarpment		
Ap 018 Sédiments alluviaux Alluvions de plaine d'inondation Af 003 Alluvial sediments Sédiments alluviaux Fan sediments Cônes alluviaux Fan sediments Alluvial sediments Estuarine sediments Estuarine sediments Estuarine sediments		225 - MISCELLANEOUS 105 - Alluvial bar or levee 339 - Erratic observation	Observations as areas	Observations as lines 106 - Alluvial bar or levee ridge		
Ae 119 Sédiments alluviaux Sédiments estuariens At 006 Alluvial sediments Sédiments alluviaux Terraced sediments Alluvions de terrasse fluviale Composition At 0.06 Alluvial sediments Sédiments alluviaux Blanket Description		323 - Felsenmeer345 - Fossil observation	439 - Felsenmeer			512 - Fossil observation location
Ab 006 Sédiments alluviaux Sédiments continus > 2 m Av 002 Alluvial sediments Sédiments alluviaux Veneer: thin, discontinuous Sédiments en couverture mince et discontinue > 2 m Au 000 Alluvial sediments Undifferentiated sediments		137 - Ground ice observation lo 353 - Iceberg scour		487 - Iceberg scour central axis		
A 009 Sediments alluviaux Dépôts non différenciés Dépôts non différenciés Map-unit designator Symbol code Genesis Category Subcategory En. Comments Ld 121 Lacustrine sediments Deltaic sediments Deltaic sediments Lacustrine sediments Lacustrine sediments		408 - Lag deposits388 - Ravine - major396 - Sample location400 - Solifluction lobe		536 - Ravine scarp		1
Ld 131 Sédiments lacustres Sédiments deltaïques Includes pro-deltaic Lr 231 Lacustrine sediments Sédiments lacustres Beach sediments Sédiments de plage Sediments Lr 221 Lacustrine sediments Littoral and nearshore sediments Sediments		402 - Station location				519 - Station location
Ln 331 Sédiments lacustres Sédiments littoraux Sédiments littoraux Sédiments littoraux Lb 441 Lacustrine sediments Sédiments lacustres Deep water sediments, blanket Sédiments d'eau profonde en couverture continue > 2 m		226 - PALEODRAINAGE 319 - Alluvial fan	554 - To be defined Observations as areas	Observations as lines	Observations as points	
Lv 221 Sédiments lacustres Sédiments en couverture mince et discontinue < 2 m L 342 Lacustrine sediments Sédiments lacustres Undifferentiated sediments Sédiments non différenciés < 2 m		368 - Meltwater channel - majo 369 - Meltwater channel - mino	ior	496 - Major meltwater channel scarp497 - Minor meltwater channel central axis		515 Delacourrent J'
designator code Genesis Category Subcategory En. Comments Mi 201 Marine sediments Sédiments marins Intertidal sediments Sédiments intertidaux Intertidal sediments Mi con Marine sediments Deltaic sediments Intertidal sediments		384 - Piping depression401 - Spillway		506 - Spillway central axis	425 - Piping depression	
Md 600 Sédiments marins Sédiments deltaïques Includes pro-deltaic Mr 300 Marine sediments Sédiments marins Beach sediments Sédiments de plage Includes pro-deltaic Mr 411 Marine sediments Littoral and nearshore sediments Includes pro-deltaic		351 - Ice divide352 - Ice stream margin	Ubservations as areas	485 - Ice divide486 - Ice stream margin	Susci vations as points	r icia Ous, and Mieas. (points)
Mn 411 Sédiments marins Sédiments littoraux et prélittoraux Mt 513 Marine sediments Sédiments marins Terraced sediments Sédiments de terrasse Sediments Marine sediments Offshore sediments blanket Description Sediments		364 - Limit of submergence 228 - PERMAFROST	Observations as areas	493 - Limit of submergence Observations as lines	Observations as points	Field Obs. and Meas. (points)
Mb 500 Sédiments marins Sédiments d'eau profonde en couverture continue > 2 m Mv 200 Marine sediments Sédiments marins Veneer: thin, discontinuous Sédiments en couverture mince et discontinue < 2 m Mv 200 Marine sediments Sédiments marins Undifferentieted sediments < 2 m		363 - Limit of permafrost 379 - Palsa, palsen				517 D 44 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Map-unit designator Symbol code Genesis Category Subcategory En. Comments Map-unit designator Code Genesis Category Subcategory En. Comments		380 - Patterned ground383 - Pingo391 - Rock blister	452 - Patterned ground		424 - Pingo	143 - Pingo observation location144 - Rock blister observation location
GFP 028 Sédiments fluvioglaciaires Sédiments d'épandage proglaciaire subaérien GFt 026 Glaciofluvial sediments Sédiments fluvioglaciaires Terraced sediments Sédiments de terrasses fluvioglaciaires Claciofluvial sediments General de la construction Glaciofluvial sediments Subagueous outwash fan sediments Construction		392 - Rock burst394 - Rock glacier395 - Rock pingo			431 - Rock glacier432 - Rock pingo	146 - Rock glacier observation location147 - Rock pingo observation location
GFI 048 Sédiments fluvioglaciaires Sédiments d'épendage sub-aquatique GFr 019 Glaciofluvial sediments Sédiments fluvioglaciaires Esker Esker Generation Glaciofluvial sediments Esker Generation Glaciofluvial sediments Esker Generation Glaciofluvial sediments Generation Generation Generation Generation		406 - Thermokarst depression 229 - SHORELINE 322 - Beach	462 - Thermokarst depression Observations as areas	Observations as lines	436 - Thermokarst depression	location
GFc 029 Sédiments fluvioglaciaires Sédiments juxtaglaciaires Sédiments juxtaglaciaires GFh 029 Glaciofluvial sediments Sédiments fluvioglaciaires Hummocky sediments Sédiments bosselés Lummocky sediments GFh 046 Glaciofluvial sediments Blanket Sediments Sediments		322 - Beach 333 - Delta 405 - Terrace scarp (edge)			412 - Delta	
GFD 046 Sédiments fluvioglaciaires Sédiments en couverture continue > 2 m GFV 057 Glaciofluvial sediments Sédiments fluvioglaciaires Veneer: thin, discontinuous Sédiments en couverture mince et discontinue < 2 m						
GF 027 Sédiments fluvioglaciaires Sédiments non différenciés Map-unit designator Symbol code Genesis Category Subcategory En. Comments CLd 230 Glaciolacustrine sediments Deltaic sediments Deltaic sediments Includes pro deltaio	their geometry: polygons, lines or points. Obser feature distinguishable from its surrounding area deposition, sedimentology, morphology, inherent	vation features are defined as: a mappable as on the basis of genesis, environment of attribute (e.g., thickness), physical limits,			2011-02-10: deleted "Area of solpe-movement" as areas: will 2010-10-28: deleted "rock glacier" as areas: mapped as a map 2010-02-16: deleted "Moraine ridge" as areas: 2010-02-04: deleted "rock glacier". as areas: 2010-01-14: deleted "Annular depression" as areas:	l be a subfeature in the Cz map unit
GLd 230 Sédiments glaciolacustres Sédiments deltaïques Includes pro-deltaic GLr 120 Glaciolacustrine sediments Sédiments glaciolacustres Beach sediments Sédiments de plage Implements Implements CLr 130 Glaciolacustrine sediments Littoral and nearshore sediments Implements Implements	geologic age, or some other property or properties. Thematic zones Thematic zones are a grouping of common the	ematic features delineated as a zone (e.g.,			2010-01-14: deleted "Deflation hollow" as areas:	o unit
GLn 130 Sédiments glaciolacustres Sédiments littoraux et prélittoraux GLm 241 Glaciolacustrine sediments Sédiments glaciolacustres Subaqueous moraine complex Complexe morainique glaciolacustre Subaqueous moraine complex Clf 120 Glaciolacustrine sediments Subaqueous outwash fan sediments Subaqueous outwash fan sediments						
GLI 120 Sédiments glaciolacustres Sédiments d'épendage sub-aquatique Image: Clip and the sediment sed	Temp # Group Short Legend Description		bol Specifications Legend Symbol (if different) Feature Type	Feature Subtype Location Confidence Is Map Unit Boundary	Active	Direction Congration Date of Geological
GLv 140 Sédiments glaciolacustres Sédiments en couverture mince et discontinue < 2 m GL 240 Glaciolacustrine sediments Sédiments glaciolacustres Undifferentiated sediments Sédiments non différenciés < 2 m Man unit Sumbol Sumbol < 2 m	2 Anthropogenic Mine tailing				Inactive Inspecified Active Inactive Inactive	significant
designator code Genesis Category Subcategory Connents GMd 412 Glaciomarine sediments Sédiments glaciomarins Deltaic sediments Sédiments deltaïques Deltaic sediments CMr 522 Glaciomarine sediments Beach sediments Deltaic sediments	Anthropogenic Peet hog mining				Unspecified Active Inactive	year of significant
GMr 522 Sédiments glaciomarins Sédiments de plage GMn 512 Glaciomarine sediments sédiments glaciomarins Littoral and nearshore sediments Sédiments littoraux et prélittoraux Composition	4 Anthropogenic Pit	polygon: fill:		Gravel Sand Till	Active Inactive	significant
GMm 612 Sédiments glaciomarins Complex de moraine glaciomarine GMf 623 Glaciomarine sediments Sédiments glaciomarins Submarine outwash fan sediments Sédiments d'épendage sous-marin Glaciomarine GMb 712 Glaciomarine sediments Offshore sediments, blanket > 2 m	Temp		Legend Quarry	* Rock	Inactive * Unspecified	significant change
GMD 712 Sédiments glaciomarins Sédiments d'eau profonde en couverture continue > 2 m GMv 312 Glaciomarine sediments Sédiments glaciomarins Veneer: thin, discontinuous Sédiments en couverture mince et discontinue > 2 m		(karst) (karst) polygon: fill:	different) Ornamentations point into depression. Centroid marker must be added		Environment ground le	
GM 602 Sédiments glaciomarins Sédiments non différenciés Map-unit designato Symbol code Genesis Category Subcategory En.	Temp # Group Short Legend Description	Symbol Short Symbol	bol Specifications Legend Symbol (if Notes on Symbol Usage Feature Type			
Ix204Sédiments glaciairesTill remaniéTr415Glacial sediments Sédiments glaciairesRidged moraine Moraine côteléeEnd	Eolian lag deposits	blowout zones polygon. hill,				
Im304Sédiments glaciairesMoraineridges identified by symTh617Glacial sediments Sédiments glaciairesHummocky till Till bosseléComparedCompared	nbols Tamp		bol Specifications Legend Symbol (if different) Notes on Symbol Usage Feature Type	Easture Subture Location Is Map Unit	Status Sense Depositional True	
Tg 509 Sédiments glaciaires ????? Sédiments glaciaires Rock-glacierized moraines Moraines rocheuses contenant de la glace Includes druminezed the	9 Glacial features Kettle	K contour:line_ centroid:mark	Legend depression. Centroid marker must be added Legend Kettle		Status Sansa Depositional True	
Tb405Glacial sediments Sédiments glaciairesBlanket Till en couverture continue> 2 mTv207Glacial sediments Sédiments glaciairesVeneer: thin, discontinuous Till en couverture mince et discontinue< 2 m		$ \begin{array}{c} $	bol Specifications Symbol (if Notes on Symbol Usage Feature Type different)		Status Sense Environment ground le	
T 406 Glacial sediments Sédiments glaciaires Undifferentiated sediments Sédiments non différenciés Man unit Sumbol Sumbol Image: Sumbol	11 Miscellaneous Lag deposits (Boulder lag or unspecified)	By waves, currents or meltwater polygon: fill	_pattern; contour:none; centroid:none	Boulder lag * Unspecified	* Domain not applicable	
WV 155 Dépôts de météorisation Residuum en couverture mince et discontinue < 2 m; in-situ		currents or meltwater	Surface boulder			
Map-unit designatorSymbol codeGenesisCategorySubcategory En.CommentsU122Undifferentiated deposits Dépôts non différenciésUndifferentiated deposits Dépôts non différenciésUndifferentiated deposits Dépôts non différenciésUndifferentiated deposits Dépôts non différenciésUndifferentiated deposits Dépôts non différenciés	13 Miscellaneous Surface boulder concentration 14 Miscellaneous To be defined		This symbol will not be shown on the legend. It is to be used when importing To be defined		Domain not applicable Domain not applicable	
Map-unit designatorSymbol codeGenesisCategorySubcategory En.CommentsR031Bedrock Substrat rocheuxUndifferentiated Non différenciésNon différenciésAn additional numerical differentiate specific lith	al value can be added to Temp # Group Short Legend Description		i) contour.inite, centroid.none iiii iiiii iiiiiiiiiiiiiiiiiiiiiiiiii	Feature Subtype Location Is Map Unit Confidence Boundary	Status Sense Depositional Environment True ground le	ength Direction Generation Date of Ceological Event Name
Map-unit designator Symbol code Genesis Category Subcategory En. Comments H 212 Anthropogenic deposits Undifferentiated Undifferentiated Image: Comments		A CONTRACTOR OF THE OF	Inattern: contour line: centroidmone	Ice-wedge polygons Non-sorted circles Non-sorted nets Non-sorted polygons Non-sorted stripes Sand-wedge polygons	Active	
Map-unit designator Symbol code Genesis Category Subcategory En. Comments Image: Image	-year). Obscurs terrain on air	polygon: fill:	l:pattern; contour:line; centroid:none Patterned ground	Sand-wedge polygons Sorted circles Sorted nets Sorted polygons Sorted stripes	Inactive * Unspecified	
Is glacier Glacier - Champ de glace - Calotte glaciaire Show packs Show packs I glacier Glacier - Icefield - Icecap Amas de neige - Congères photos I glacier Glacier - Icefield - Icecap Undifferentiated Non différenciés Non différenciés Non différenciés	16 Permafrost Thermokarst depression	polygon: fill: k contour:line_ centroid:mark	e w ornaments:right side rule;	* Unspecified * Domain not applicable	* Domain not applicable	

Тетр	Legend	Short Lorend D	
# 1	Group Bedrock features	Short Legend Description Bedrock scarp	Linear
			Linear features have bee determin from aer
2	Bedrock features	Lineament or lineation in bedrock	photogra or remot sensed
Тетр	Crown	Shout Logand Description	imagery not iden on the g
3	Group Eolian features	Short Legend Description Dune crest	
4	Eolian features	Sediment transportation direction	
Temp # 5	Group	Short Legend Description Arete	
6	Glacial features	Cirque headwall	Includes
7	Glacial features	Crevasse ridge	filling, i
8	Glacial features	Major moraine ridge (lateral or laterofrontal) Major moraine ridge	
9 10	Glacial features Glacial features	(lateral, ice-cored or laterofrontal, ice- cored) Major moraine ridge (medial)	
11	Glacial features	Major moraine ridge (medial, ice-cored)	
12	Glacial features	Major moraine ridge (end, interlobate, or unspecified) Major moraine ridge	
13	Glacial features	(end, ice-cored; interlobate, ice-cored; or unspecified, ice-cored)	
14	Glacial features	Other moraine ridge (DeGeer, recessional, rogen, washboard or unspecified)	
Temp #	Group	Short Legend Description	
15 16	Ice-contact features Ice-contact	Buried esker ridge (sense known) Buried esker ridge	
16	features Ice-contact features	(sense unknown or unspecified) Esker ridge (sense known)	
18 19	Ice-contact features Ice-contact features	Esker ridge (sense unknown or unspecified) Ice-contact terrace scarp	
20	features	Ice-contact terrace scarp	Seasona
20	features Ice-contact features	Ice-thrust ridge	drift-ice
Temp #	features Group	Short Legend Description	
22	Ice-movement indicators	Buried drumlin ridge	
23	Ice-movement indicators	Buried drumlinoid ridge or fluting	
24	Ice-movement indicators	Crag-and-tail ridge	
		-	
25	Ice-movement indicators	Drumlin ridge	
26	Ice-movement indicators	Drumlinoid ridge or fluting	
27 28	Ice-movement indicators Ice-movement indicators	Fluted bedrock central long axis (sense known) Fluted bedrock central long axis (cense unknown or unspecified)	
28	indicators Ice-movement indicators	(sense unknown or unspecified) Large groove central long axis (sense known)	
30 Temp #	Ice-movement indicators Group	Large groove central long axis (sense unknown or unspecified) Short Legend Description	
# 31	Map unit contacts	Geological boundary (Confidence: approximate, inferred or concealed)	
32	(boundary) Map unit contacts (boundary)	concealed) Geological boundary (Confidence: defined)	
33	Map unit contacts	Limit of mapping	
	(boundary) Map unit		
34 Temp #	contacts (boundary) Group	Limit of mapping (neatline) Short Legend Description	
# 35	Mass-wasting	Landslide escarpment (Status: active)	
36	Mass-wasting	Landslide escarpment	
		(Status: inactive or unspecified) Slope-movement track and direction	
37 38	Mass-wasting	(avalanche track) Slope-movement track and direction	
38 39	Mass-wasting Mass-wasting	(debris flow track)	
59 Temp #		Short Legend Description	
40	Miscellaneous	Alluvial bar or levee	
41	Miscellaneous	Iceberg scour central axis	
42	Miscellaneous	Ravine scarp	
43	Miscellaneous	To be defined	
Temp #	Group	Short Legend Description	
		priori	
41	Palaod	Major malturator 1	
44	Paleodrainage	Major meltwater channel scarp	
45	Paleodrainage	Minor meltwater channel central axis (Lateral uphill left)	
46	Paleodrainage	Minor meltwater channel central axis	
	uge	(Lateral uphill right)	
		Minor meltwater channel central axis	
47	Paleodrainage	(Marginal, orverflow, subglacial or unspecified; sense known)	
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48 49 50 51 52 53 54 55 56 57 58 59 51 52 53 54 55 56 57 58 59 50 51 52 53 54 55 56 57 58 59 50 51 52 53 54 55 56 57 Femp 58 59 59 59 59 59 59 59 59 70 71 72	Paleodrainage Paleodrainage Paleodrainage Paleodrainage Paleodrainage Paleodrainage Paleodrainage Paleodrainage Paleodrainage Paleogeography Paleogeography<	(Marginal, orverflow, subglacial or unspecified; sense known)Minor meltwater channel central axis (Lateral, marginal, overflow, subglacial or unspecified)Paleodrainage directionPaleodrainage directionPartly buried channel scarpSpillway central axisShort Legend DescriptionIce divide (Confidence: approximate)Ice divide (Confidence: approximate)Ice stream margin (Confidence: defined)Limit of glaciation (Confidence: defined)Limit of submergence (Dep_env: glaciolacustrine; Confidence: defined)Limit of submergence (Dep_env: glaciolacustrine; Confidence: defined)Limit of submergence (Dep_env: glaciomarine; Confidence: approximative)Limit of submergence (Dep_env: glaciomarine; Confidence: approximative)Limit of submergence (Dep_env: lacustrine; Confidence: approximative)Limit of submergence (Dep_env: lacustrine; Confidence: approximative)Limit of submergence (Dep_env: lacustrine; Confidence: approximative)Limit of submergence (Dep_env: lacustrine; Confidence: approximative)Limit of submergence (Dep_env: marine; Confidence: approximative)Limit of submergence (Dep_env: marine; Confidence: approximative)Limit of permafrostShort Legend DescriptionBeach crestCircopi andion terrace scarpCipe. env: flavial)Terrace scarp (Dep. env: flavial)Terrace scarp (Dep. env: glaciofacustrine)Terrace scarp (Dep. env: glaciofacustrine)Terrace scarp (Dep. env: glaciofacustrine) <trr< td=""><td>cast</td></trr<>	cast

| ogic intervation | terpretations
n features a |) are presented acco
re defined as: a m | ording to
 | | |
 |
 |

 | |
 | Deleted features
2011-01-06: deleted "Coastal aggradation ridge" as li
 | inor |
 | |
|---|--|---
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--|---|--
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---|
| eas on | the basis of | of genesis, environ
hickness), physical | ment of
l limits,
 | → ■ start point
■ end point | |
 |
 |

 | |
 | 2011-01-00: deleted "Coastal aggradation ridge" as in
2010-12-16: deleted "buried subglacial outwash chan
2010-12-16: deleted "roche moutonnee" as lines:
2010-03-10: deleted "coastal escarpment" as lines: is
 | nnel" as lines: | Observation features (landforms and geomorpholog
their geometry: polygons, lines or points. Observ
feature distinguishable from its surrounding areas
 | ation features are defined a |
| | | he arrow appears at
e as shown in the fo | t the end
 | end point start point end point | |
 |
 |

 | |
 | 2010-03-10: deleted "erosional scarp, trim line, cut b
2010-02-17: deleted "mega-lineament" as lines:
2010-01-14: deleted "deflation hollow" as lines:
 | | deposition, sedimentology, morphology, inherent
geologic age, or some other property or properties.
 | |
| | | |
 | | |
 |
 |

 | |
 | 2010-01-14: deleted "glacial fluting" as lines:
2010-01-14: deleted "minor ravine" as lines:
2010-01-14: deleted "rock drumlin" asl ines:
 | | Observation as points
Feature to small to draw to scale
 | |
| | | |
 | | | Geodatabase (mar
 | ndatory fields)
 |

 | |
 | 2010-01-14: deleted "solifluction lobe" as lines:
 | codatabase (optional fields) | Legend
 | |
| | | Symbol | Short Symbol
Specifications
 | Legend Symbol (if
different) | Notes on Symbol Usage
Ornamentations on |
 | Feature Subtype
 | Location
Confidence

 | Is Map Unit
Boundary
* No | Status Sense
 | Environment ground length
 | rection Generation Date of Geological
occurrence Event Name | Temp
Group Short Legend Description
 | Symbol |
| | Linear
features that | ••••• | line: right_side_rul
 | | downslope | Bedrock scarp
 | Domain not applicable
 | * Defined

 | Yes | * Domain not applicable * Known
 | Domain not applicable * Accurate
 | | 1 Anthropogenic
features Drillhole location
 | |
| ock | have been
determined
from aerial
photographs | | line:
 | | | Lineament or
lineation in bedrock
 | * Domain not applicable
 | * Defined

 | * No | * Domain not applicable * Domain not applicable
 | Domain not applicable Accurate
 | | 2 Anthropogenic Pit
features (Status: active)
 | Feature too
small to draw
to scale |
| | or remotely
sensed
imagery but
not identified | |
 | | | incation in bearock
 |
 |

 | |
 |
 | | 3 Anthropogenic Pit
 | Feature too
small to draw |
| | on the ground | Symbol | Short Symbol
Specifications
 | Legend Symbol (if
different) | Notes on Symbol Usage | e <mark>Feature Type</mark>
 | Feature Subtype
 | Location
Confidence

 | Is Map Unit
Boundary | Status Sense
 | Depositional True Dir
Environment ground length Dir
 | rection Generation Date of Geological Event Name | features (Status: inactive or unspecified)
 | to scale
Feature too |
| | | | line:
 | دن د | lines | Dune crest
 | Longitudinal
Parabolic
* Unspecified
 | * Defined

 | * No | Active Inactive * Unspecified
 | * Domain not applicable * Accurate
 | | features (Status: active)
Anthropogenic Quarry
 | small to draw
to scale
Feature too
small to draw |
| ion | | « | line: right_side_rul Short Symbol Specifications
 | le
Legend Symbol (if
different) | | Sediment transport
direction
Feature Type
 | Domain not applicable Feature Subtype
 | * Domain not applicable
Location
Confidence

 | e * No
Is Map Unit
Boundary | * Domain not applicable * Known Status Sense
 | * Domain not applicable * Domain not applicable Depositional
Environment True
ground length Direction
 | rection Generation Date of Geological
eccurrence Event Name | features (Status: inactive or unspecified) Temp
Group Short Legend Description
 | to scale Symbol |
| | | **** *** | line:
 | | Ornamentations point | Arete
 | Domain not applicable
 | * Defined

 | * No
Yes
* No | * Domain not applicable * Domain not applicable
 | Domain not applicable Accurate
 | e.g., X | 6 Bedrock features Sinkhole
 | (karst) Feature
too small to |
| | Includes
crevasse | | line: right_side_rul
 | | into cirque | Cirque headwall Crevasse ridge
 | Domain not applicable * Domain not applicable
 | Defined Defined

 | Yes
* No | Domain not applicable Known Domain not applicable Domain not applicable
 | Domain not applicable * Accurate
 | Glaciation | 7 Bedrock features Small outcrop
 | draw to scale
Feature too
small to draw |
| | filling, ice
fracture filling | | line: right_side_rul
 | le | Ornamentations on glacier side |
 | * I ateral
 | * Defined

 | * No | Domain not applicable Known
 | Domain not applicable * Accurate
 | e.g., X
Glaciation | 8 Bedrock features Tor
 | to scale
Synonym:
castellated
bedrock |
| ıtal, ice- | | | line: right_side_rul
 | le | Ornamentations on glacier side | Major moraine ridge
 | * Lateral ice-cored
 | * Defined

 | * No | * Domain not applicable * Known
 | Domain not applicable Accurate
 | e.g., X
Glaciation | Temp
Group Short Legend Description
 | Symbol |
| | | |
 | | | Major moraine ridge
 |
 | * Defined

 | * No | * Domain not applicable * Domain not applicable
 |
 | e.g., X
Glaciation
e.g., X | 9 Eolian features Blowout
 | (deflation
hollow)
Feature too
small to draw |
| | | •••••• |
]
 | | | Major moraine ridge
Major moraine ridge
 | End
 | Defined Defined

 | * No
* No | Domain not applicable Domain not applicable Domain not applicable
 |
 | Glaciation
e.g., X | Temp
Group Short Legend Description
 | to scale Symbol |
| d)
e-cored; | | |
 | | | Major moraine ridge
 | * Unspecified
End, ice-cored
 | * Defined

 | * No | Domain not applicable Domain not applicable
 |
 | e.g., X | 10 Glacial features Kettle
 | Feature too
small to draw ()
to scale |
| | | |
 | | The leaved work of is a |
 | * Unspecified, ice-cored
DeGeer
 | -

 | |
 |
 | Glaciation | Temp
Group Short Legend Description
 | Symbol |
| | | | line:
 | 1511 | The legend symbol is a set of moraine ridges | Other moraine ridge
 | Rogen * Unspecified Washboard
 | * Defined

 | * No | Domain not applicable Domain not applicable
 | Domain not applicable Accurate
 | e.g., X
Glaciation | 11 Ice-contact
features Ice-contact delta
 | Feature too
small to draw
to scale |
| | | Symbol | Short Symbol
Specifications
line: right_side_rul
 | Legend Symbol (if
different) | Notes on Symbol Usage | e <mark>Feature Type</mark>
Buried esker ridge
 | Feature Subtype * Domain not applicable
 | Location
Confidence
* Defined

 | Is Map Unit
Boundary
* No | Status Sense * Domain not applicable * Known
 | Depositional True Dire Environment ground length Dire * Domain not applicable * Accurate
 | Generation Date of occurrence Geological Event Name e.g., X Clearitien Clearitien | 12 Ice-contact
features Kame
 | Feature too
small to draw |
| ł) | | ****** | line:
 | | | Buried esker ridge
 | Domain not applicable
 | * Defined

 | * No | Domain not applicable Unknown Unspecified
 | Domain not applicable * Accurate
 | Glaciation e.g., X Glaciation | Temp
Group Short Legend Description
 | to scale Symbol |
| Ð. | | ······································ |
 | | Chevrons point in
direction of flow |
 | Domain not applicable Domain not applicable
 | * Defined* Defined

 | * No
* No | Domain not applicable Known Unknown Unspecified
 | Domain not applicable * Accurate Domain not applicable * Accurate
 | e.g., X
Glaciation
e.g., X
Glaciation | 13 Ice-movement
indicators Buried drumlin
 | Feature too
small to draw |
| 1) | | - | line: right_side_rul
 | le | Ornamentations point
downscarp | Ice-contact terrace
scarp
 | * Domain not applicable
 | * Defined

 | * No | Tonspecified Nown Nown
 | Domain not applicable Accurate
 | e.g., X
Glaciation |
 | to scale |
| | Seasonal or
drift-ice | ••••• | line:
 | | Ornamentations point basinward | Ice-pushed ridge
 | * Domain not applicable
 | * Defined

 | * No | Active
Inactive * Known
* Unspecified
 | Fluvial Lacustrine Marine * Unspecified
 | | 14 Ice-movement
indicators Buried drumlinoid
 | Feature too
small to draw
to scale |
| | | | line: right_side_rul
 | le
Legend Symbol (if | Ornamentations on up-
ice side | Ice-thrust ridge
 | Domain not applicable
 | * Defined

 | * No
Is Map Unit | * Domain not applicable * Known
 | Domain not applicable Accurate
 | e.g., X
Glaciation
Date of Geological | 15 Ice-movement
indicators Crag-and-tail
 | Feature too
small to draw
to scale |
| | | Symbol | Specifications
 | different) | Notes on Symbol Usage
Arc points in direction o
flowCentroid marker | of
 | Feature Subtype
 | Confidence

 | Boundary | Status Sense
 | Environment ground length
 | rection Generation Date of Geological
ccurrence Event Name |
 | Feature too |
| | | | carto_point:marker
 | r | 13.115 must be added
manually a the line mid-
point
Centroid marker 13.115 | Buried drumlin ridge
 | Domain not applicable
 | * Defined

 | * No | Domain not applicable Known
 | Domain not applicable * Accurate
 | Glaciation | 16 Ice-movement
indicators Drumlin
 | small to draw
to scale |
| ting | | | line:
carto_point:marker
 | r | a the line mid-point
Arrow points in | Buried drumlinoid
ridge or fluting
 | * Domain not applicable
 | * Defined

 | * No | * Domain not applicable * Unknown
 | Domain not applicable Accurate
 | e.g., X
Glaciation | 17 Ice-movement
indicators Drumlinoid or fluting
 | Feature too
small to draw
to scale |
| | | | line: right_side_rul
carto_point:marker
 | | direction of flow | Crag-and-tail ridge
 | * Domain not applicable
 | * Defined

 | * No | Domain not applicable Known
 | Domain not applicable Accurate
 | e.g., X
Glaciation | 18 Ice-movement
indicators Fluted bedrock (Sense: known)
 | Feature too
small to draw |
| | | | line: right_side_rul
 | | Arc points in direction o
flowCentroid marker
13.115 must be added | Drumlin ridge
 | * Domain not applicable
 | * Defined

 | * No | * Domain not applicable * Known
 | Domain not applicable * Accurate
 | e.g., X
Glaciation | 18 indicators Fluted bedrock (Sense: known)
 | to scale |
| | | | line:
 | | manually a the line mid-
point | -
 |
 | * Defined

 | * No | Domain not applicable * Unknown
 | Domain not applicable * Accurate
 | e.g., X | 19Ice-movement
indicatorsFluted bedrock (Sense: unknown
unspecified)
 | or Feature too
small to draw
to scale |
| is | | | carto_point:marker
 | | a the line mid-point | Fluted bedrock
central long axis
 |
 | * Defined* Defined

 | * No
* No | * Domain not applicable * Domain not applicable * Known
 | Domain not applicable * Accurate Domain not applicable * Accurate
 | C.g., X
Glaciation
e.g., X
Glaciation | Temp
Group Short Legend Description
 | Symbol |
| is
l) | | | line:
 | | Arc points to direction o | Fluted bedrock
central long axis
 | * Domain not applicable
 | * Defined

 | | Domain not applicable Unknown Unspecified
 | Domain not applicable Accurate
 | e.g., X
e.g., X
Glaciation
e.g., X | 20 Mass-wasting Slope-movement direction (avalanche track)
 | Feature too
small to draw |
| l) | | | inic. fight_side_ful
 | | Arc points to direction o flow | Large groove central
long axis
Large groove central
long axis
 |
 | * Defined* Defined

 | * No
* No | Domain not applicable Known Unknown Unspecified
 | * Domain not applicable * Accurate * Domain not applicable * Accurate
 | e.g., X
Glaciation
e.g., X
Glaciation | Slope-movement direction
 | to scale
Feature too |
| , | | Symbol | Short Symbol
Specifications
 | Legend Symbol (if
different) | Notes on Symbol Usage | e Feature Type
 | Feature Subtype
 | Location
Confidence
* Approximate

 | Is Map Unit
Boundary | Status Sense
 | Environment ground length
 | rection Generation Date of Geological
occurrence Event Name | 21 Mass-wasting Stope-movement direction (debris flow)
 | small to draw
to scale |
| erred or | | | line:
 | | |
 | Domain not applicable
 | Concealed
Inferred

 | * Yes | Domain not applicable Field not applicable
 | Domain not applicable Domain not applicable
 | | 22 Mass-wasting Slope-movement direction (landslide scar)
 | Feature too
small to draw
to scale |
| | | | line:
 | | Use when extent of mapping does not | Geological boundary
 | Domain not applicable
 | * Defined

 | * Yes | Domain not applicable Field not applicable
 | Domain not applicable * Domain not applicable
 | | Sino movement direction
 | Feature too |
| | | | line:
 | | correspond to boundary
of map (e.g., Watershed
area) |
 | * Limit of mapping
 | * Domain not applicable

 | e * Yes | Domain not applicable Field not applicable
 | Domain not applicable Domain not applicable
 | | 23 Mass-wasting Slope-movement direction
(retrogressive thaw flow)
 | small to draw d
to scale |
| | | | line:
Short Symbol
 | Legend Symbol (if | NTS neatline |
 | * Neatline
 | * Domain not applicable

 | e * Yes
Is Map Unit | * Domain not applicable * Field not applicable
 | * Domain not applicable * Domain not applicable Depositional True
 | Date of Geological | 24 Mass-wasting Slope-movement direction (unspecified)
 | Feature too
small to draw |
| | | Symbol | Specifications
 | different) | Notes on Symbol Usage | e <mark>Feature Type</mark>
Landslide
 | Feature Subtype * Domain not applicable
 | Confidence * Defined

 | Boundary
* No | Status Sense
 | Depositional Irue Dire Environment ground length Dire * Domain not applicable * Accurate
 | Generation Date of occurrence Geological Event Name 1 to 5 year of significant e.g., 1992 orthonological | Temp
Group Short Legend Description
 | to scale Symbol |
| | | |
 | 45 | | escarpment
 |
 |

 | Yes |
 |
 | change earthquake |
 | Feature too |
| l) | | | line:
 | (~~~~) | | Landslide
escarpment
 | * Domain not applicable
 | * Defined

 | Yes | Inactive * Known * Unspecified * Known
 | Domain not applicable Accurate
 | 1 to 5 significant change e.g., 1992 earthquake | 25 Miscellaneous Gelifluction or solifluction lobe
 | small to draw A to scale |
| ection | | | line: right_side_rul
 | | | Slope-movement
track and direction
 | * Avalanche track
 | * Defined

 | * No | Inactive * Known * Unspecified Active
 | Domain not applicable Accurate
 | 1 to 5 year of e.g., 1992 earthquake | 26 Miscellaneous To be defined
 | 5 |
| ection | | | line: right_side_rul
 | le | | Slope-movement
track and direction
 | * Debris flow track
 | * Defined

 | * No | Inactive * Known
* Unspecified
Active
 | Domain not applicable Accurate
 | 1 to 5 year of significant change e.g., 1992 earthquake | Temp
Group Short Legend Description
 | Symbol |
| | | +++++++++++++++++++++++++++++++++++++++ | line:
 | | | Tension fracture
 | * Domain not applicable
 | * Defined

 | * No | Inactive * Domain not applicable
 | * Domain not applicable * Accurate
 | significant |
 | |
| | | Symbol | Short Symbol
 | Legend Symbol (if | Notes on Symbol Usage | e Feature Type
 | Feature Subtype
 | Location
Confidence

 | Is Map Unit | * Unspecified Status Sense
 | Depositional True Dir
 | change Generation Date of Geological | 27 Paleodrainage Alluvial fan
 | Feature too
small to draw
to scale |
| | | Symbol
 | Specifications
 | Legend Symbol (if
different) | Notes on Symbol Usage | e <mark>Feature Type</mark>
Alluvial bar or levee
ridge
 | Alluvial bar
Levee
 | Location
Confidence
* Defined

 | Is Map Unit
Boundary | Status Sense Active Inactive * Domain not applicable
 | Depositional True Dir
Environment ground length Dir
 | change Date of Geological | 27 Paleodrainage Alluvial fan28 Paleodrainage Piping depression
 | small to draw |
| | | | Specifications
 | | | Alluvial bar or levee
 | Alluvial bar
Levee
* Unspecified
 | Confidence

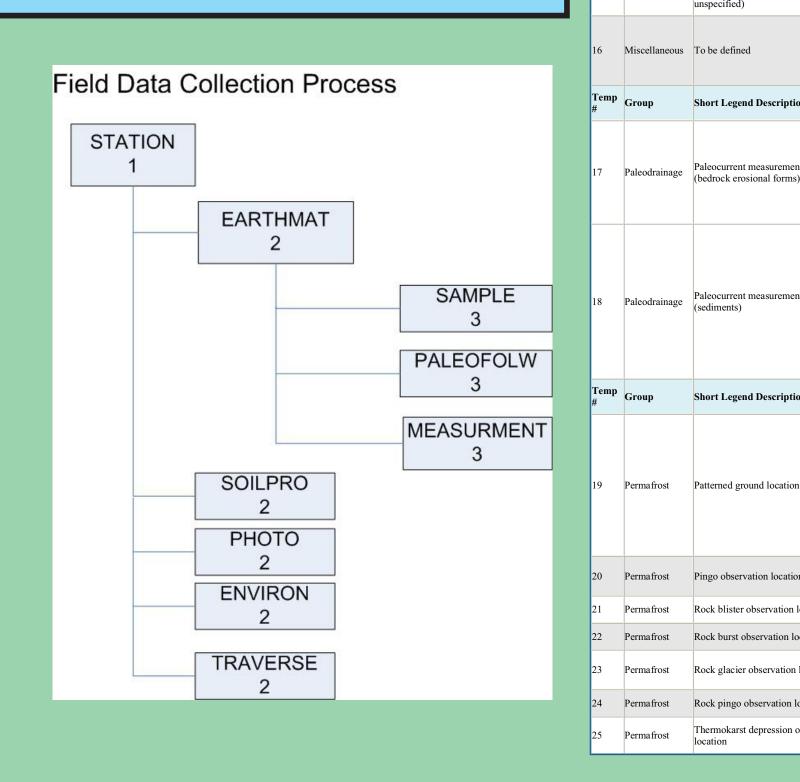
 | Boundary | Status Sense Active Image: Construction of the sense
 | Depositional
Environment True
ground length Dir * Fluvial * Accurate
 | change rection Generation Date of occurrence Geological Event Name e.g., Flood of |
 | small to draw |
| | | | Specifications line: line:
 | different) | Ornamentations point
into channelOpposite
sides of channel must be
digitized in other | Alluvial bar or levee
ridge
Iceberg scour central
axis
 | Alluvial bar
Levee
* Unspecified
* Domain not applicable
 | Confidence * Defined * Defined

 | Boundary Boundary * No * No * No | Status Sense Active Inactive Inactive * Domain not applicable * Domain not applicable * Domain not applicable
 | Depositional
Environment True
ground length Dir * Fluvial * Accurate * Domain not applicable * Accurate
 | Change Change Section Generation Date of occurrence Geological Event Name Image: | 28 Paleodrainage Piping depression
 | small to draw
to scale |
| | | | Specifications
 | different) | Ornamentations point
into channelOpposite
sides of channel must be
digitized in other
direction using same
symbolThe legend
symbol will show the 2 | Alluvial bar or levee
ridge
Iceberg scour central
axis
 | Alluvial bar
Levee
* Unspecified
* Domain not applicable
 | Confidence * Defined * Defined

 | Boundary * No * No | Status Sense Active Inactive * Unspecified * Domain not applicable
 | Depositional
Environment True
ground length Dir * Fluvial * Accurate
 | Change Change Section Generation Date of occurrence Geological Event Name Image: | 28 Paleodrainage Piping depression Temp Group Short Legend Description
 | small to draw
to scale Symbol |
| | | | Specifications line: line: line: right_side_rul
 | different) | Ornamentations point
into channelOpposite
sides of channel must be
digitized in other
direction using same
symbolThe legend
symbol will show the 2
sides of the channel
This symbol will not be
shown on the legend. It
is to be used when | Alluvial bar or levee
ridge
Iceberg scour central
axis
Ravine scarp
 | Alluvial bar Levee * Unspecified * Domain not applicable In bedrock In unconsolidated material * Unspecified
 | Confidence

 | Boundary * No * No * No Yes | Status Sense Active
Inactive * Domain not applicable * Unspecified * Domain not applicable * Domain not applicable * Domain not applicable * Domain not applicable * Known
 | Depositional
Environment True
ground length Dire * Fluvial * Accurate * * Domain not applicable * Accurate * * Domain not applicable * Accurate *
 | Change Change Section Generation Date of occurrence Geological Event Name Image: | 28 Paleodrainage Piping depression Temp Group Short Legend Description
 | small to draw
to scale Symbol |
| | | | Specifications line: line: line: right_side_rul line: line:
 | different) Image: state sta | Ornamentations point
into channelOpposite
sides of channel must be
digitized in other
direction using same
symbolThe legend
symbol will show the 2
sides of the channel
This symbol will not be
shown on the legend. It
is to be used when
importing data or when
the nature of the feature
in not clear | Alluvial bar or levee ridge Iceberg scour central axis Ravine scarp To be defined
 | Alluvial bar Levee * Unspecified * In bedrock In unconsolidated material * Unspecified
 | Confidence * Defined * Defined * Defined * Defined
 | Boundary * No * No * No * No Yes
 | Status Sense Active Finactive Inactive Finactive Unspecified Finactive Domain not applicable Finactive
 | Depositional
Environment True
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	small to draw to scale	ß	rotation:none; location:mid_point	Legend		Kettle	* Domain not applicable			* Domain not applicable	* Domain not applicable	* Domain not applicable					
Description		Symbol	Short Symbol Specifications	Legend Symbol (if different)	Notes on Symbol Usage	Feature Type	Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	Direction	Generation	Date of occurrence	Geologic Event Na
1	Feature too small to draw	Ŷ	point:marker; rotation:direction; 0=North; rotation:mid_noint		Triangle opens in direction of progradation	Ice-contact delta	* Domain not applicable			* Domain not applicable	* Domain not applicable	Glaciolacustrine Glaciomarine		0-359			e.g., X Glaciatio
	to scale Feature too	-	rotation:mid_point location:mid_point point:marker;									* Unspecified					
	small to draw to scale	*	rotation:none; location:mid_point	Legend		Kame	* Domain not applicable			* Domain not applicable	* Domain not applicable	* Domain not applicable					e.g., X Glaciatio
Description		Symbol	Short Symbol Specifications	Legend Symbol (if different)	Notes on Symbol Usage	Feature Type	Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	Direction	Generation	Date of occurrence	Geologic Event Na
	Feature too small to draw to scale	Ť	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point		Arrows points in direction of flow	Buried drumlin	* Domain not applicable			* Domain not applicable	* Known	* Domain not applicable		0-359	1 to 5		e.g., X Glaciatio
vid	Feature too small to draw to scale	ł	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point			Buried drumlinoid or fluting	* Domain not applicable	_		* Domain not applicable	* Unknown	* Domain not applicable	-	0-359	1 to 5		e.g., X Glaciatio
	Feature too small to draw to scale	î	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point		Arrows points in direction of flow	Crag-and-tail	* Domain not applicable			* Domain not applicable	* Known	* Domain not applicable		0-359	1 to 5		e.g., X Glaciatio
	Feature too small to draw to scale	Ŧ	point:marker; rotation:direction; 0=North; rotation:mid_point		Arrows points in direction of flow	Drumlin	* Domain not applicable	-		* Domain not applicable	* Known	* Domain not applicable		0-359	1 to 5		e.g., X Glaciatio
luting	Feature too small to draw to scale	ł	location:mid_point point:marker; rotation:direction; 0=North; rotation:mid_point			Drumlinoid or fluting	* Domain not applicable	-		* Domain not applicable	* Unknown	* Domain not applicable]	0-359	1 to 5		e.g., X Glaciatio
(Sense: known)	Feature too small to draw to scale	↑	location:mid_point point:marker; rotation:direction; 0=North; rotation:mid_point		Arrows points in direction of flow	Fluted bedrock	* Domain not applicable	-		* Domain not applicable	* Known	* Domain not applicable		0-359	1 to 5		e.g., X Glaciatic
(Sense: unknown or	Feature too small to draw to scale		location:mid_point point:marker; rotation:direction; 0=North; rotation:mid_point			Fluted bedrock	* Domain not applicable			Domain not applicable	Unknown * Unspecified	* Domain not applicable		0-359	1 to 5		e.g., X Glaciatio
Description		Symbol	location:mid_point Short Symbol	Legend Symbol (if	Notes on Symbol Usage	Feature Type	Feature Subtype	Location	Is Map Unit	Status	Sense	Depositional	True	Direction	Generation	Date of	Geologic
	Feature too	Symbol	Specifications point:marker; rotation:direction;	different)				Confidence	Boundary	Active	_	Environment	ground length			vear of	Event Na
it direction	small to draw to scale Feature too	Ŷ	0=North; rotation:mid_point location:mid_point point:marker; rotation:direction;		Arrow points downhill	Slope-movement direction	* Avalanche track			Inactive Unspecified Active	* Known	Domain not applicable] 	0-359	1 to 5	significant change year of	e.g., 1992 earthquak
it direction	small to draw to scale	0	0=North; rotation:mid_point location:mid_point point:marker;		Arrow points downhill	Slope-movement direction	Debris flow track			Inactive * Unspecified Active	* Known	* Domain not applicable]	0-359	1 to 5	significant change	e.g., 1992 earthquak
t direction	Feature too small to draw to scale	¢	rotation:direction; 0=North; rotation:mid_point location:mid_point point:marker;		Arrow points downhill	Slope-movement direction	* landslide scar			Inactive * Unspecified	* Known	* Domain not applicable] 	0-359	1 to 5	year of significant change	e.g., 1992 earthquak
it direction aw flow)	Feature too small to draw to scale	Φ	rotation:direction; 0=North; rotation:mid_point location:mid_point; label:Tk		Arrow points downhill; Text label must be added manually	Slope-movement direction	* Retrogressive thaw flow slide			Active Inactive * Unspecified	* Known	* Domain not applicable		0-359	1 to 5	year of significant change	e.g., 1992 earthquak
tt direction	Feature too small to draw to scale	Ŷ	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point		Arrow points downhill	Slope-movement direction	* Unspecified			Active Inactive * Unspecified	* Known	* Domain not applicable		0-359	1 to 5	year of significant change	e.g., 1992 earthqual
Description		Symbol	Short Symbol Specifications	Legend Symbol (if different)	Notes on Symbol Usage	Feature Type	Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	Direction	Generation	Date of occurrence	Geologic Event Na
solifluction lobe	Feature too small to draw to scale	~	point:marker; rotation:direction; 0=North; rotation:mid_point		Points downslope	Gelifluction or solifluction lobe	Gelifluction lobe Solifluction lobe * Unspecified			Active Inactive * Unspecified	* Known	* Domain not applicable		0-359	1 to 5	year of significant change	
		×	location:mid_point		This symbol will not be shown on the legend. It is to be used when importing data or when the nature of		* Domain not applicable				* Domain not applicable	* Domain not applicable					
Description		Symbol	Short Symbol	Legend Symbol (if	the feature in not clear Notes on Symbol Usage	Feature Type	Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	Direction	Generation	Date of	Geologic Event N
	Feature too		specifications point:marker; rotation:direction;	different)				Confidence	Boundary			Environment	ground length			occurrence	Event N
	small to draw to scale	¥	0=North; rotation:mid_point		Triangle opens in direction of progradation	Alluvial fan	* Domain not applicable			* Domain not applicable	* Domain not applicable	* Fluvial		0-359			
n		Φ	location:mid_point point:marker; rotation:none			Piping depression	* Domain not applicable	-		* Domain not applicable	* Domain not applicable	* Domain not applicable					
escription		Symbol	location:mid_point Short Symbol Specifications	Legend Symbol (if	Notes on Symbol Usage		Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	Direction	Generation	Date of	Geologi Event N
	Palsen		Specifications point:marker; rotation:none	different)		Palsa	* Domain not applicable		Boundary	Active	* Domain not applicable	* Domain not applicable	ground length			year of significant	Event N
	- 415011	~	rotation:none location:mid_point				Domain not applicable Ice-wedge polygons Non-sorted circles Non-sorted nets			Inactive Inactive Unspecified	promain not applicable	poman not appricable				significant change	
I	Feature too small to draw to scale	#	point:marker; rotation:none location:mid_point			Patterned ground	Non-sorted polygons Non-sorted stripes Sand-wedge polygons Sorted circles Sorted nets Sorted polygons Sorted stripes			Active Inactive * Unspecified	* Domain not applicable	* Domain not applicable				year of significant change	
		Ø	point:marker; rotation:none location:mid_point			Pingo	Unspecified Closed system Open system Turprecified			Active Collapsed * Unspecified	* Domain not applicable	* Domain not applicable				year of significant change	
	Feature too small to draw to scale	A	location:mid_point point:marker; rotation:direction; 0=North; rotation:mid_point		Points downslope	Rock glacier	 * Unspecified * Domain not applicable 			Unspecified Active Inactive Unspecified	* Domain not applicable	* Domain not applicable	-	0-359		change year of significant change	
			location:mid_point point:marker;			Rock nings	* Domain not are 11	_			* Domein ret m 11. 11	* Domain act - 1'					
	Feature too	A 	rotation:none; location:mid_point point:marker;			Rock pingo Thermokarst	Domain not applicable			Domain not applicable	Domain not applicable	Domain not applicable				year of	
		Ŧĸ	rotation:none			depression	* Domain not applicable			* Domain not applicable	* Domain not applicable	* Domain not applicable				significant change	
	small to draw to scale		location:mid_point	Legend				Locat	In March 1			Depertitional	T				0
ression	to scale	Symbol	Short Symbol Specifications	Legend Symbol (if different)	Notes on Symbol Usage	Feature Type	Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment Glaciolacustrine	True ground length	Direction	Generation	Date of occurrence	Geologic Event N

tion features (landforms and geomorphologic interpretations) are presented according to ometry: polygons, lines or points. Observation features are defined as: a mappable distinguishable from its surrounding areas on the basis of genesis, environment of on, sedimentology, morphology, inherent attribute (e.g., thickness), physical limits, e age, or some other property or properties.

Field observation	tions and measurements symbolized of ons and measurements information are con- can be represented as a symbol on a map is s	collected using GanFeld. Onl	aly the														
Legend				Legend		Geodatabase (manda * default value	atory fields)							Geodatab [,]	DASE (optional f		
Temp # Group	Short Legend Description	Symbol	Short Symbol Specifications	Symbol (if different)				Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	gth Direction	Generation		Geological Event Name
1 Eolian featu	tures Paleowind measurements location	\$	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point	, 		t Paleowind direction measurements location	Dune foresets * Dune orientation			* Domain not applicable	e * Known	* Domain not applicable		0-359	1 to 5	,	
Temp # Group	Short Legend Description	Symbol	Short Symbol Specifications	Legend Symbol (if different)	Notes on Symbol Usage	Feature Type		Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	gth Direction	Generation		Geological Event Name
2 Ice-movem		φ	point:marker; rotation:direction; 0=North; rotation:mid_point			Ice-flow measurement	Grooves			* Poorly defined	* Known	* Domain not applicable	e	0-359	1 to 5		
² indicators	(striation; poorly defined; sense known)		location:mid_point; label:relative_age		bearing line. See note for legend symbol.	location	Nail-heads Roche moutonnée Stoss and lee * Striations Boulder pavement			· p tony c				0-322			
3 Ice-movemu indicators	nent Ice-flow measurement location (striation; poorly defined; sense unknown or unspecified)	ţ	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point; label:relative_age		Point of observation is at the midpoint of the bearing line. See note for legend symbol.	Ice-flow measurement	Nail-heads Roche moutonnée Stoss and lee * Striations			* Poorly defined	Unknown * Unspecified	* Domain not applicable		0-359	1 to 5		
4 Ice-moveme indicators	nent Ice-flow measurement location (striation; well defined or unspecified; sense known)	f	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point point; label:relative_age)	;	Point of observation is at the midpoint of the bearing line. See note for legend symbol.	Ice-flow measurement	Nail-heads Roche moutonnée Stoss and lee * Striations			* Unspecified Well defined	* Known	* Domain not applicable		0-359	1 to 5		
5 Ice-moveme indicators	nent (striation; well defined or unspecified; sense unknown or unspecified)	\$	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point; label:relative_age	;	Point of observation is at the midpoint of the bearing line. See note for legend symbol.	Ice-flow measurement	Nail-heads Roche moutonnée Stoss and lee			* Unspecified Well defined	Unknown * Unspecified	* Domain not applicable		0-359	1 to 5		
6 Ice-movemo indicators	nent Ice-flow measurement location (Till fabric; sense known)	f	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point; label:relative_age		bearing line. See note for legend symbol.	Ice-flow measurement location	Striations			* Domain not applicable	e * Known	* Domain not applicable		0-359	1 to 5		
7 Ice-movement	(111 fabric; sense unknown of unspecified)	÷.	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point; label:relative_age	1 2	Point of observation is at the midpoint of the bearing line. See note for legend symbol. If crossing features this	Ice-flow measurement location	* Till fabric			* Domain not applicable Poorly defined	e * Unknown * Unknown	* Domain not applicable		0-359	1 to 5		
NOTE	Crossing features (numbers indicate relative age, 1 being the oldest)				additional symbol will be added once to the legend to show the relative age												
Temp # Group	Short Legend Description	Symbol	Short Symbol Specifications	Legend Symbol (if different)		Feature Type	Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	gth Direction	Generation		Geological Event Name
8 Miscellaner	eous Erratic observation location	^	point:marker; rotation:none; location:mid_point	unici c,	Point of observation is at the midpoint of symbol	Erratic observation location	* Domain not applicable			* Domain not applicable	e * Domain not applicable						
9 Miscellane	eous Fossil observation location	©	point:marker; rotation:none; location:mid_point		Point of observation is at the midpoint of symbol		* Domain not applicable	-			e * Domain not applicable	e Fluvial Lacustrine Marine Terrestrial * Unspecified					
	cous Gelifluction or solifluction lobe cous Gossan observation location	M. ©	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point point:marker; rotation:none; location:mid_point		Points downslope Point of observation is at		Gelifluction lobe Solifluction lobe With the second			Active Inactive * Unspecified * Domain not applicable	Known Some in the applicable	 * Domain not applicable e * Domain not applicable 		0-359	1 to 5	year of significant change	
	eous Ground ice observation location	0	location:mid_point point:marker; rotation:none;		the midpoint of symbol Point of observation is at	location Ground ice	Glacier Ice Segregated ice			Domain not applicable Domain not applicable		e * Domain not applicable					
	cous Sample location	•	location:mid_point point:marker; rotation:none; label_optional:sample_name		Text must be added	t	* Unspecified * Domain not applicable	-			e * Domain not applicable						
14 Miscellane	Station location (ground observation or stratigraphic section)	0	point (marker; rotation:none; label:station_name optional)		manually (label) Station ID annotation is	Station location	* Ground observation Stratigraphic section			Domain not applicable	e * Domain not applicable	* Domain not applicable	;				
15 Miscellane	Station location (remote observation, waypoint or unspecified)	¢	point (marker; rotation:none; label:station_name optional)		Station ID annotation is optional. Point of observation is at the midpoint of symbol	Station location	* Remote observation Unspecified Waypoint	-		* Domain not applicable	e * Domain not applicable	* Domain not applicable					
16 Miscellane	eous To be defined	×			This symbol will not be shown on the legend. It is to be used when importing data or when the nature of the feature in	s To be defined	* Domain not applicable			* Domain not applicable	* Domain not applicable	* Domain not applicable					
Temp # Group	Short Legend Description	Symbol	Short Symbol Specifications	Legend Symbol (if different)	not clear Notes on Symbol Usage	Feature Type	Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	gth Direction	Generation		Geological Event Name
17 Paleodraina	Paleocurrent measurement location (bedrock erosional forms)	ţ.	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point			Paleocurrent direction measurement location	Cavettos Comma forms Erosional unspecified Foresets Furrows Muschelbruchen Sichelwannen			* Domain not applicable	e * Known	* Domain not applicable		0-359	1 to 5		
18 Paleodraina	age Paleocurrent measurement location (sediments)	\$	point:marker; rotation:direction; 0=North; rotation:mid_point location:mid_point							* Domain not applicable	* Known	* Domain not applicable		0-359	1 to 5		
Temp # Group	Short Legend Description	Symbol	Short Symbol Specifications	Legend Symbol (if different)	Notes on Symbol Usage	Feature Type	Feature Subtype	Location Confidence	Is Map Unit Boundary	Status	Sense	Depositional Environment	True ground length	gth Direction	Generation		Geological Event Name
19 Permafrost	t Patterned ground location	#	point (marker; rotation:none)		Point of observation is at the midpoint of symbol		Ice-wedge polygons Non-sorted circles Non-sorted nets Non-sorted polygons Non-sorted stripes Sand-wedge polygons Sorted circles Sorted nets Sorted polygons Sorted ottipes			* Domain not applicable	e * Domain not applicable	* Domain not applicable					
20 Permafrost	t Pingo observation location	8	point:marker; rotation:none location:mid_point			Pingo observation location	Sorted stripes * Unspecified Closed system Open system * Unspecified	É			* Domain not applicable	e * Domain not applicable	2			year of significant change	
21 Permafrost	t Rock blister observation location	-	point:marker; rotation:none; location:mid_point			Rock blister observation location	Unspecified Domain not applicable			* Unspecified* Domain not applicable	Domain not applicable	e * Domain not applicable	;			change	
						Dool: hunst	* Densing term line 11				* Domain not applicable	e * Domain not applicable	-				
22 Permafrost	t Rock burst observation location	•	point:marker; rotation:none; location:mid_point			observation location	* Domain not applicable										
22 Permafrost23 Permafrost		▲ (A)		;	Dointe doumelono	observation location Rock glacier observation location	Domain not applicable Domain not applicable			* Domain not applicable Active Inactive * Unspecified		e * Domain not applicable	_	0-359		year of significant change	
	t Rock glacier observation location	▲	location:mid_point point:marker; rotation:direction; 0=North; rotation:mid_point	1;	Points downslope	Rock glacier observation location	_			Active Inactive * Unspecified		e * Domain not applicable	e	0-359		significant	