

LAYERED ROCKS

- PALEOCENE**
 - Pb** dark grey, aphanitic, amygdaloidal to massive basalt
 - Pssc** poorly consolidated siltstone, sandstone and conglomerate

TRIASSIC

- Grayling - Toad Formations (undivided)**
 - TGT** grey, red and green shale interbedded with thin- to thick-bedded, brown sandstone and siltstone; locally calcareous

PERMIAN

- Fantasia Formation**
 - PF-s** dark grey, siliceous, bedded shale, contains lesser thin interbeds of limestone, limestone concretions and sandy limestone
 - PF-l** dark grey, light grey-weathering, finely crystalline, feld, sandy bedded limestone; contains thin interbeds of dark grey to black, fissile shale

EARLY CARBONIFEROUS

- Muncho-McConnell Stone Formations (undivided)**
 - CM** buff to grey-weathering, light to medium grey, fine-grained, quartz sandstone; grey-weathering, locally contains trace amounts of pyrobitumen and detrital muscovite
 - CM-b** UPPER MEMBER: orange-weathering, grey, calcareous, rippled, very fine- to fine-grained sandstone and siltstone
 - CM-a** LOWER MEMBER: alternating quartz-rich, fine-grained, well sorted, well indurated sandstone and dark grey to black shale on a scale of 10 to 15 m; local ripples and loam casts

DEVONIAN TO EARLY CARBONIFEROUS

- Besa River Formation**
 - DCBR** dark grey to black, carbonaceous shale, siltstone, bedded chert and siliceous limestone; weathers recessively to pale bluish-grey

DEVONIAN

- Dunedin Formation**
 - DD-l** buff to grey-weathering, medium grey, argillaceous limestone, micritic with the exception of local thin granitoid beds containing two-hole conoids
 - DD-d** medium dark grey to dark grey, thin to thick bedded, feld, dolostone; fossiliferous; local black, discontinuous chert bands and nodules

SILURIAN TO DEVONIAN

- Muncho-McConnell Stone Formations (undivided)**
 - SDMMS** buff to grey-weathering, light to medium grey, thick-bedded, fine-grained, slightly vuggy, unfossiliferous dolostone

Nonda-Muncho-McConnell-Stone-Dunedin Formations (undivided)

- SDc** buff to grey-weathering, light to medium grey, thick bedded dolostone and limestone; locally fossiliferous, locally slightly vuggy

Road River Group

- SDRR-b** dark grey to black, sparsely fossiliferous, siliceous, silty shale, weathers as pale grey platy
- SDRR-a** dark grey to black, locally calcareous or dolomitic, argillaceous shale or siltstone with lesser very fine-grained sandstone, bedded chert and limestone; weathers recessively

SILURIAN

- Nonda Formation**
 - SN** dark grey, feld, medium- to thick bedded, fossiliferous dolostone; contains discontinuous lenses and beds of black chert

ORDOVICIAN TO SILURIAN

- OSs** grey to buff, quartz-rich sandstone to pebbly sandstone; contains beds up to 2 m thick of heavily burrowed, slightly conolitic, very fine-grained sandstone and siltstone

ORDOVICIAN

- Sunbottle Formation**
 - OSu** mottled, light to dark grey, medium-bedded dolostone; lesser limestone interbeds; weathers light brown-grey to buff; locally laminated

CAMBRIAN TO ORDOVICIAN

- Crow Formation**
 - COC** cream to pink, indistinctly bedded, quartz sandstone to subarkose sandstone interbedded with maroon to greyish-red, laminated siltstone to argillite, locally contains quartz-sandstone conglomerate and limestone or dolostone interbeds grey-weathering, thick bedded, basaltic tuff and breccias interbedded with amygdaloidal to vesicular, pillowed flows; fresh colours are greyish-green with lesser maroon
 - COCv** green to grey, locally greyish-red, bedded siltstone to argillite with very fine-grained sandstone; sandstone beds, 1 to 5 cm thick, are quartzose, internally laminated and graded; minor green, matrix-supported, volcanoclastic conglomerate beds

Rabbitkettle Formation

- COR** thin-bedded, brownish grey, slightly dolomitic siltstone; uppermost part contains thin interbeds of nodular limestone

PROTEROZOIC

- Toobally Formation**
 - PT** dark grey to black, orange-brown weathering, polymictic, matrix-supported conglomerate; matrix mudstone to fine siltstone; clasts dominantly sedimentary sandstone, siltstone and limestone

CAMBRIAN TO ORDOVICIAN

- Pa** green to grey, locally greyish-red, bedded siltstone to argillite with very fine-grained sandstone; sandstone beds, 1 to 5 cm thick, are quartzose, internally laminated and graded; minor green, matrix-supported, volcanoclastic conglomerate beds
- Pa-bc** BASALT CONGLOMERATE MEMBER: greyish-red, clast-supported conglomerate; subangular to subround clasts, clasts predominantly basalt with lesser amounts of quartz, carbonate and sandstone; unit is up to 20 m thick

Basalt Conglomerate Member

- Ps** white to light grey quartzite; very fine-grained to sugary, massive to faintly laminated; interbeds of dark grey to black, laminated siltstone

Eocene

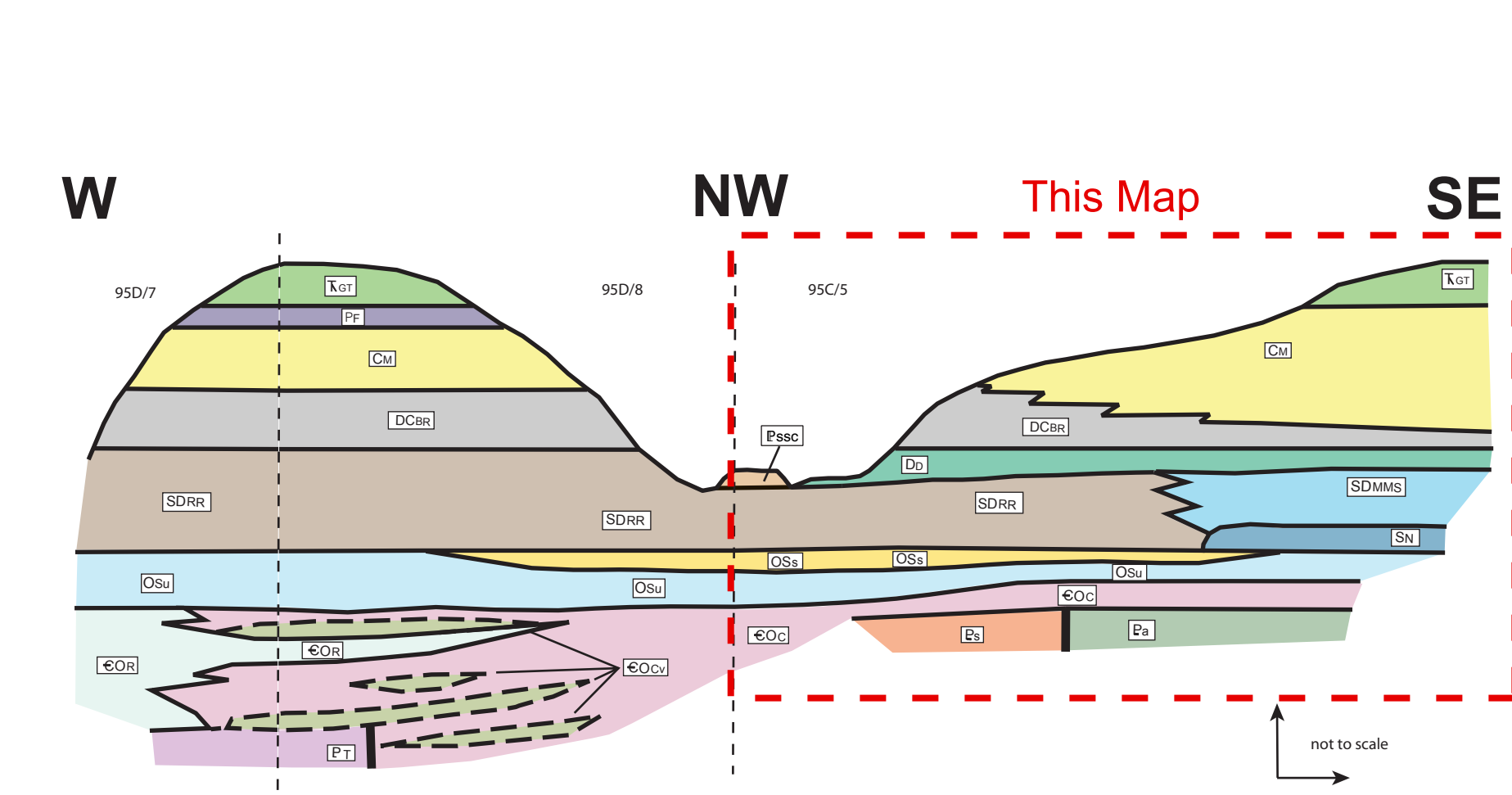
- Ting Suite**
 - Eib** greyish-red and pale green, aphanitic igneous breccia; xenoliths include Pool Creek syenite, volcanic rocks and quartz sandstone; microcrystalline quartz and K-feldspar

PROTEROZOIC

- Pool Creek Syenite**
 - PPCsy** pink, medium to coarse crystalline, unfoliated nepheline syenite; predominantly randomly oriented pink K-feldspar crystals with lesser saussureitized nepheline and minor dark, strongly oriented biotite; associated dykes range from dark grey to distinctly banded pink and dark green

Note: darker colour for each unit indicates areas of outcrop.

LEGEND



Schematic stratigraphic section illustrating lithologies in NTS 95C/5 and 95D/8 (modified from Pigage, 2006)

Map ID	QC ID	Field No.	Formation	Host type	Max Age (epoch)	Min Age (epoch)	Min Age (stage)	REFERENCE
1	C-11706	01L1010	COC	conglomerate	Early Devonian	Early Devonian	Early Devonian (Hangingwall)	McCracken (2003b)
2	C-11718	01L1014	COC	conglomerate	Early Devonian	Early Devonian	Early Devonian (Hangingwall)	Nowlan (2004)
3	C-11710	01L1020	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
4	C-11728	01L1027	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
5	C-11727	01L1027	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
6	C-11728	01L1027	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
7	C-11727	01L1027	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
8	C-11728	01L1027	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
9	C-11727	01L1027	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
10	C-11728	01L1027	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
11	C-11728	01L1027	OSu	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
12	C-11727	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
13	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
14	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
15	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
16	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
17	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
18	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
19	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
20	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
21	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
22	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
23	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
24	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
25	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
26	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
27	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
28	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
29	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
30	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)
31	C-11728	01L1027	SDRR-a	conglomerate	Early Devonian	Early Devonian	Early Devonian	Nowlan (2004)

Fossil samples - Pool Creek map area

Map ID	Lab ID	Field No.	Unit	Method	Age (Ma)	Error (Ma)	Notes	Reference
1	02L-35	02L303	PPCsy	U-Pb TIMS	652	± 2	weighted average five fractions, ²⁰⁷ Pb/ ²³⁸ U ages	Pigage and Mortensen (2004)
2	02L-109	02L109	PPCsy	U-Pb TIMS	650.8	3.4	weighted average three fractions, ²⁰⁷ Pb/ ²³⁸ U ages	Pigage and Mortensen (2004)
3	02L-112	02L112	PPCsy	U-Pb TIMS	643.1	3.6	one fraction, minimum crystallization age, ²⁰⁷ Pb/ ²³⁸ U age	Pigage and Mortensen (2004)
4	02L-128	02L128	PPCsy	U-Pb TIMS	650	20	population age, three fractions, ²⁰⁷ Pb/ ²³⁸ U ages	Pigage and Mortensen (2004)
5	02L-129	02L122	PPCsy	U-Pb TIMS	648.2	2.7	weighted average two fractions, ²⁰⁷ Pb/ ²³⁸ U ages	Pigage and Mortensen (2004)
6	02L-103	01L1033	Ew	U-Pb TIMS	51.8	0.2	crystallization age, five fractions, ²⁰⁷ Pb/ ²³⁸ U ages	Pigage and Mortensen (2004)
7	01L-016	01L016	Pb	Az-Ar	62.7	0.7	whole rock	Villeneuve (2003)

Mineral Occurrences		Yukon MINFILE (Deklerk, 2008)	
095C 023	●	Troul. Pool	showing Ba vein
095C 051	●	Beau, Dunn, showing	U, REE skarn
095C 068	●	Beav	drilled prospect Pb, Zn SEDEX
095C 069	●	Tranz	anomaly
095C 070	●	Thor	anomaly

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RECOMMENDED CITATION

Pigage, L. 2008. Geological map of the Pool Creek area (NTS 95C/5), southeast Yukon. (1:50 000 scale). Yukon Geological Survey, Geoscience Map 2008-1, also Plate 1 in Bulletin 16.

This map accompanies the Bulletin: Pigage, L.C. 2009. Bedrock geology of NTS 95C/5 (Pool Creek) and NTS 95D/8 map sheets, southeastern Yukon Territory. Yukon Geological Survey, Bulletin 16.

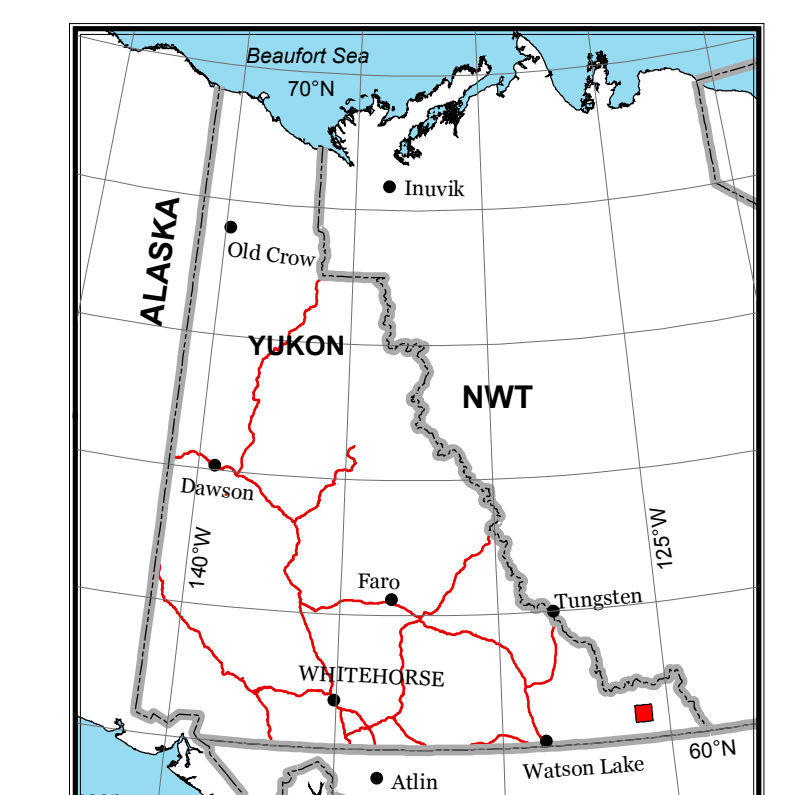
Digital cartography and drafting by Lee Pigage and Shannon Maltry, Yukon Geological Survey.

An earlier version of this map was published as Open File 2001-32 by Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

Paper copies of this map, the accompanying report and Yukon MINFILE may be purchased from Geoscience Information and Sales, c/o Whitehorse Mining Recorder, Energy, Mines and Resources, Government of Yukon, Room 102 - 300 Main St., Whitehorse, Yukon, Y1A 2B5, P.O. Box 667-5200, Fax: 867-667-5150, Email: geosales@gov.yk.ca.

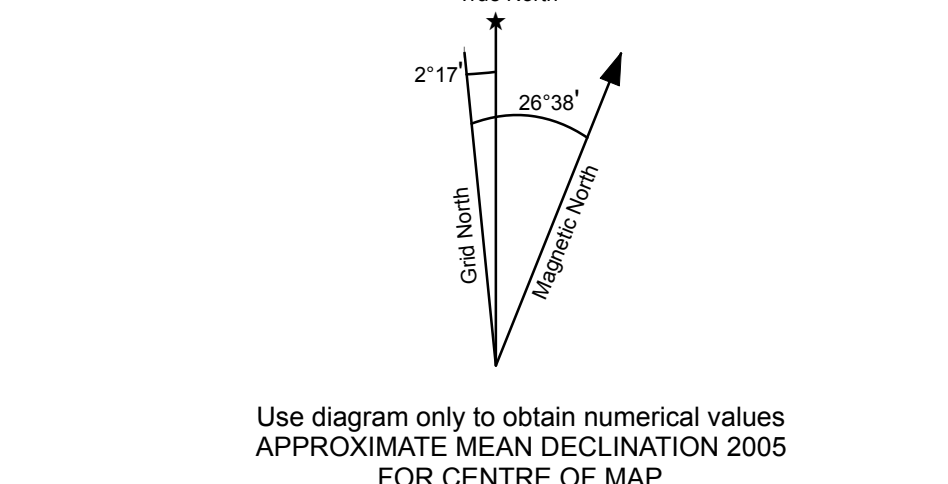
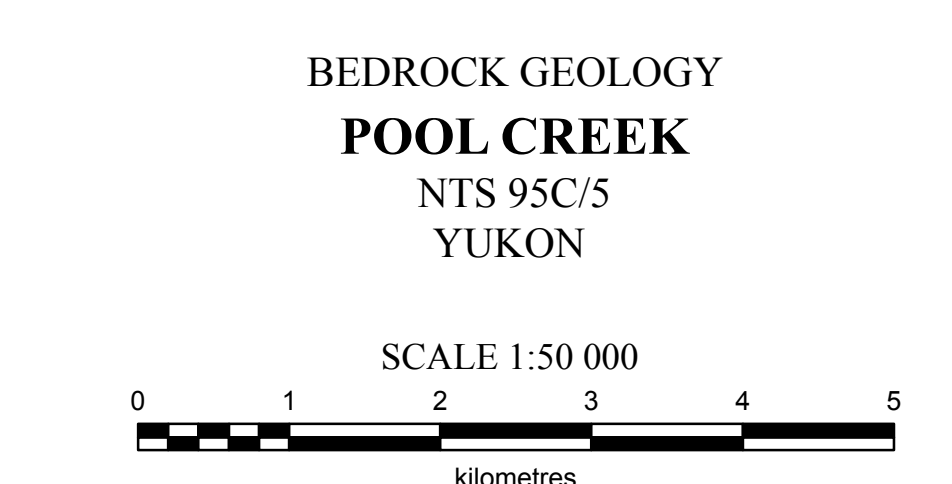
A digital PDF (Portable Document File) file of this map may be downloaded free of charge from the Yukon Geological Survey website: <http://www.geology.gov.yk.ca>.



1:50 000-scale topographic base data provided by CENTRAL FORELAND NATMAP PROJECT, NATURAL RESOURCES CANADA

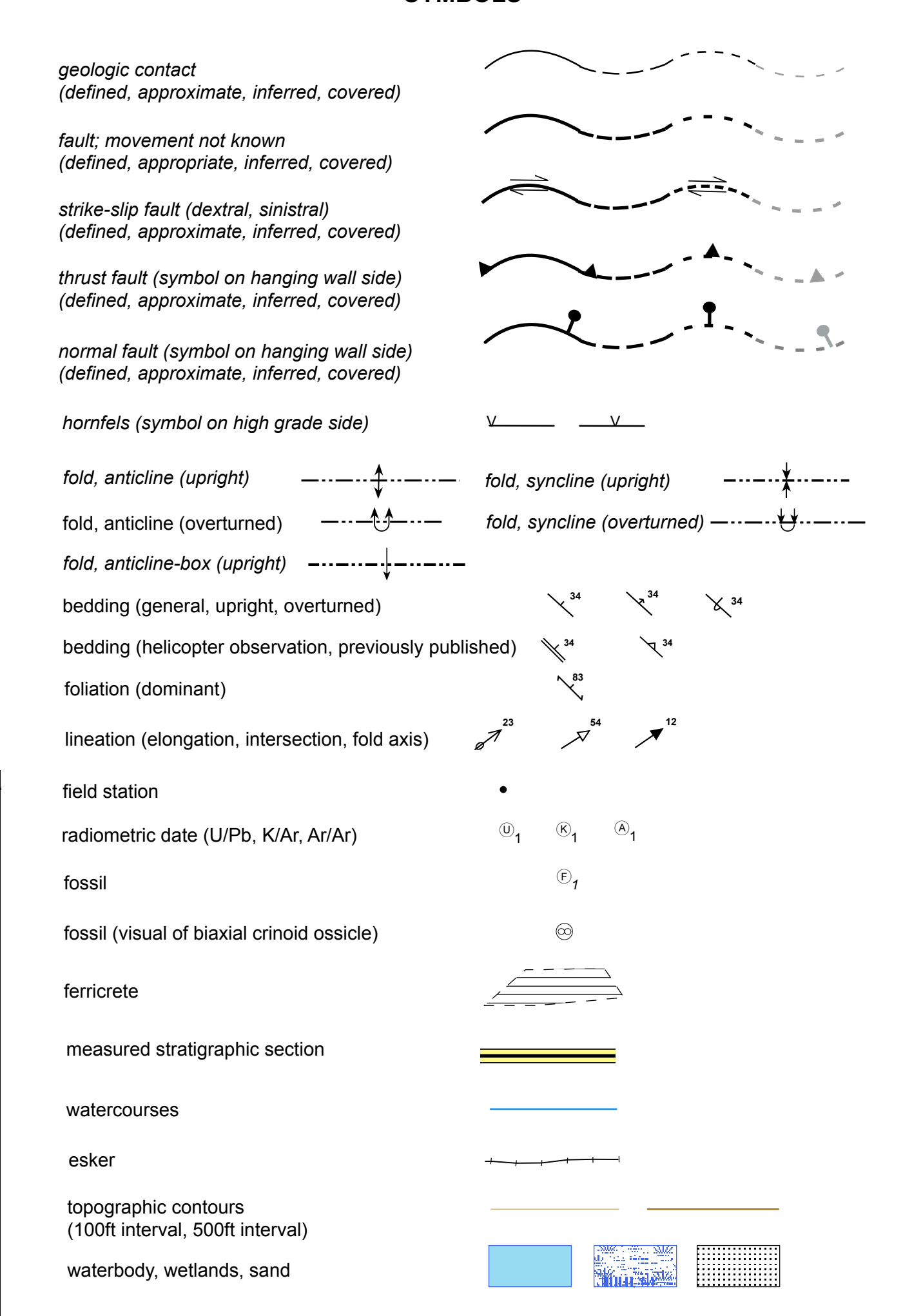
ONE THOUSAND METRE GRID
Universal Transverse Mercator Projection
North American Datum 1983
Zone 10

CONTOUR INTERVAL 100 FEET
Elevations in feet above Mean Sea Level



95D/9	95C/12	95C/11
JACKSON LAKE	WATERBURY RIVER	
95D/8	95C/5	95C/6
GOLD RAY CREEK		
95D/1	95C/4	95C/3
LARSEN LAKE	MOONEY CREEK	

SYMBOLS



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