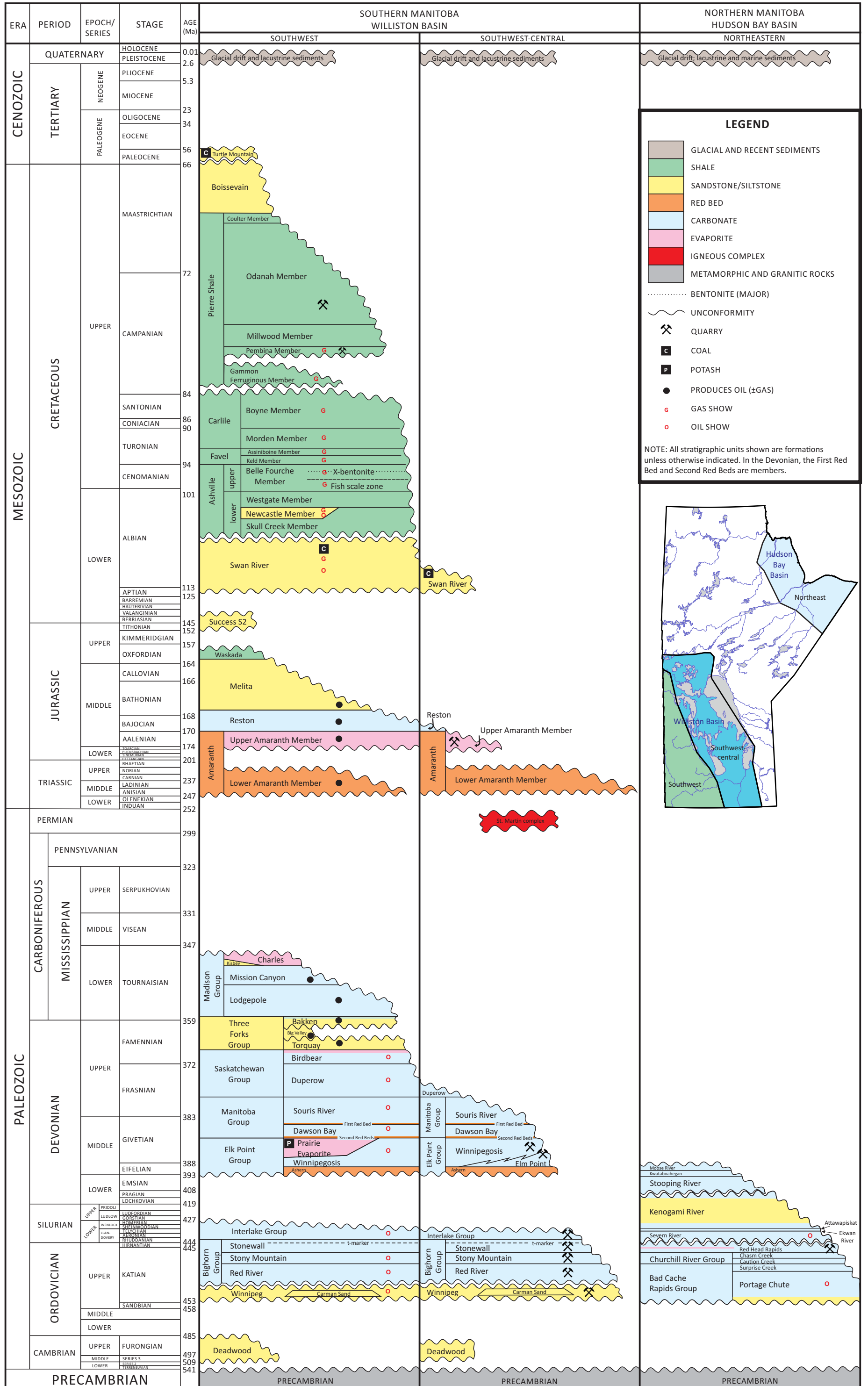


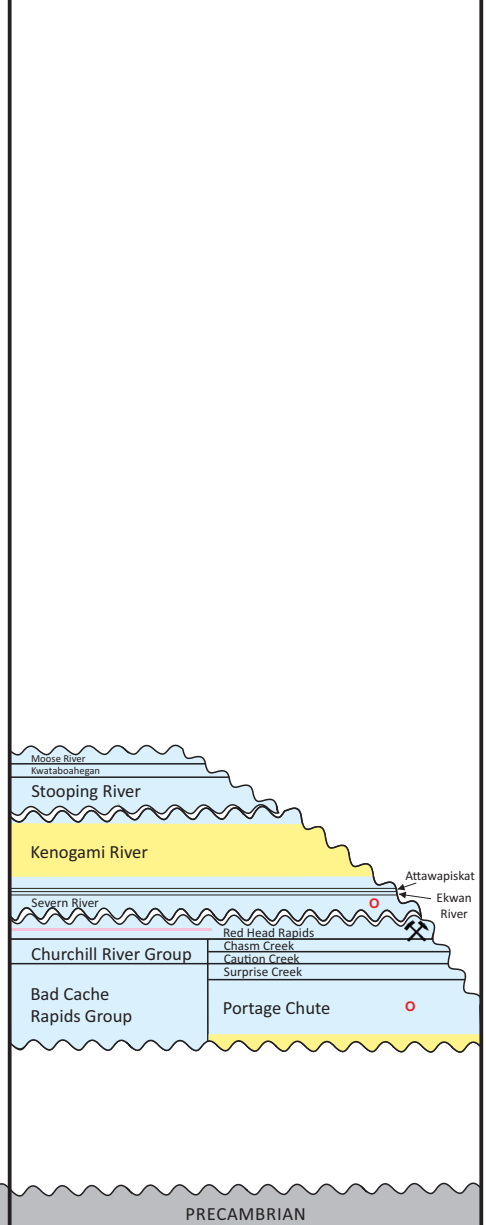
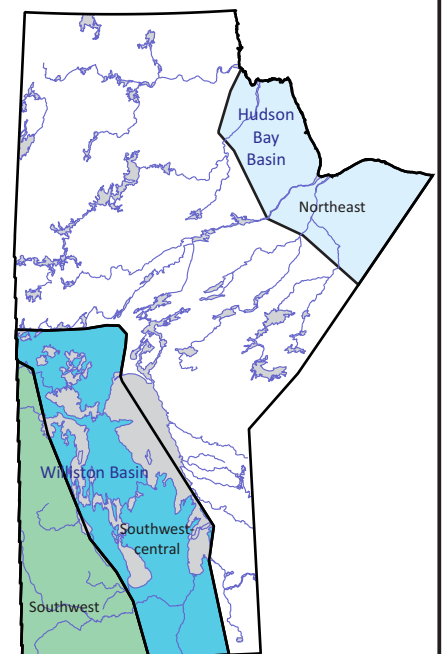
Phanerozoic stratigraphic correlation chart for Manitoba



LEGEND

- GLACIAL AND RECENT SEDIMENTS
- SHALE
- SANDSTONE/SILTSTONE
- RED BED
- CARBONATE
- EVAPORITE
- IGNEOUS COMPLEX
- METAMORPHIC AND GRANITIC ROCKS
- BENTONITE (MAJOR)
- UNCONFORMITY
- QUARRY
- COAL
- POTASH
- PRODUCES OIL (±GAS)
- GAS SHOW
- OIL SHOW

NOTE: All stratigraphic units shown are formations unless otherwise indicated. In the Devonian, the First Red Bed and Second Red Beds are members.



Select references

- Armstrong, D.K., Nicolas, M.P.B., Hahn, K.E., Lavoie, D. 2018: Stratigraphic synthesis of the Hudson Platform in Manitoba, Ontario, and Nunavut: Ordovician-Silurian; Geological Survey of Canada, Open File 8378, 48 p., URL <<https://doi.org/10.4095/308418>> [September 2020].
- Bamburak, J.D. 1971: The geology of Turtle Mountain; *in* Summary of Geological Field Work 1971, Manitoba Department of Mines, Resources and Environmental Management, Mines Branch, Geological Paper GP6/71, p. 65, URL <<https://www.manitoba.ca/iem/info/libmin/GP71-6.pdf>> [September 2020].
- Bamburak, J.D. and Nicolas, M.P.B. 2009: Revisions to the Cretaceous stratigraphic nomenclature of southwest Manitoba (parts of NTS 62F, G, H, J, K, N, O, 63C, F); *in* Report of Activities 2009, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 183–192, URL <<https://www.manitoba.ca/iem/geo/field/roa09pdfs/GS-19.pdf>> [September 2020].
- Bannatyne, B.B. 1970: The clays and shales of Manitoba; Manitoba Department of Mines and Natural Resources, Mines Branch, Publication 67-1, 107 p., URL <<https://www.manitoba.ca/iem/info/libmin/PUB67-1.zip>> [September 2020].
- Bezys, R.K. and Bamburak, J.D. 2004: Lower to middle Paleozoic stratigraphy of southwestern Manitoba; Manitoba Industry, Trade and Mines, Manitoba Geological Survey, May 25–28, 2004, Winnipeg, Manitoba, WCSB/TGI II Field Trip Guidebook, 72 p., URL <https://www.manitoba.ca/iem/geo/willistontgi/downloads/fieldtripguidebook_paleozoic.pdf> [September 2020].
- Christopher, J.E. 2003: Jura-Cretaceous Success Formation and Lower Mannville Group of Saskatchewan; Saskatchewan Industry and Resources, Saskatchewan Geological Survey, Report 223, 128 p., URL <<http://publications.saskatchewan.ca/#/products/4694>> [September 2020].
- Christopher, J.E., Yurkowski, M., Nicolas, M., and Bamburak, J. 2006: The Upper Cretaceous (Turonian-Santonian) Carlile Formation of eastern southern Saskatchewan, and the correlative Morden and Boyne members of southwestern Manitoba; *in* Summary of Investigations 2006, Volume 1, Saskatchewan Geological Survey, Saskatchewan Industry and Resources, Miscellaneous Report 2006-4.1, Paper A-13, 16 p., URL <<http://publications.saskatchewan.ca/#/products/12423>> [September 2020].
- International Commission on Stratigraphy 2017: International chronostratigraphic chart v.2017/02; International Commission on Stratigraphy, URL <<https://stratigraphy.org/icschart/ChronostratChart2017-02.pdf>> [September 2020].
- McCabe, H.R. and Bannatyne, B.B. 1969: Lake St. Martin: A crypto-explosion or crater structure; *in* Summary of Geological Fieldwork 1969, Manitoba Department of Mines and Natural Resources, Mines Branch, Geological Paper GP4/69, p. 115–118, URL <<https://www.manitoba.ca/iem/info/libmin/GP4-69.pdf>> [September 2020].
- McNeil, D.H. and Caldwell, W.G.E. 1981: Cretaceous rocks and their foraminifera in the Manitoba Escarpment; Geological Association of Canada, Special Paper 21, 439 p.
- Nicolas, M.P.B. 2008: Williston Basin Project (Targeted Geoscience Initiative II): results of the biostratigraphic sampling program, southwestern Manitoba (NTS 62F, 62G4, 62K3); Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Geoscientific Paper GP2008-1, 28 p., URL <<https://www.manitoba.ca/iem/info/libmin/GP2008-1.pdf>> [September 2020].
- Nicolas, M.P.B. 2009: Williston Basin Project (Targeted Geoscience Initiative II): summary report on Mesozoic stratigraphy, mapping and hydrocarbon assessment, southwestern Manitoba; Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Geoscientific Paper GP2009-1, 19 p., URL <<https://www.manitoba.ca/iem/info/libmin/GP2009-1.zip>> [September 2020].
- Nicolas, M.P.B. 2012: Stratigraphy and regional geology of the Late Devonian–Early Mississippian Three Forks Group, southwestern Manitoba (NTS 62F, part of 62G, K); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Geoscientific Report GR2012-3, 92 p., URL <<https://www.manitoba.ca/iem/info/libmin/GR2012-3.pdf>> [September 2020].
- Nicolas, M.P.B. and Bamburak, J.D. 2011: Geochemistry and mineralogy of Cretaceous shale, southwestern Manitoba (parts of NTS 62F, G, J, K, N, 63C): phase 2 results; *in* Report of Activities 2011, Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, p. 143–149, URL <<https://www.manitoba.ca/iem/geo/field/roa11pdfs/GS-13.pdf>> [September 2020].
- Saskatchewan Ministry of the Economy 2014: Stratigraphic correlation chart; Saskatchewan Ministry of the Economy, URL <<https://publications.saskatchewan.ca/api/v1/products/81737/formats/93751/download>> [September 2020].

By M.P.B. Nicolas, Manitoba Geological Survey, Winnipeg, 2020

Suggested reference:

Nicolas, M.P.B. 2020: Phanerozoic stratigraphic correlation chart for Manitoba; Manitoba Agriculture and Resource Development, Manitoba Geological Survey, Open File OF2020-7, 2 p.

ISBN: 978-0-7711-1612-4

Published by:

Manitoba Agriculture and Resource Development
Manitoba Geological Survey
360–1395 Ellice Avenue
Winnipeg, Manitoba
R3G 3P2 Canada
Telephone: 1-800-223-5215 (General Enquiry)
204-945-6569 (Publication Sales)
Fax: 204-945-8427
E-mail: minesinfo@gov.mb.ca

This publication is available to download free of charge at manitoba.ca/minerals.

