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Updating the geology of the eastern sub-Phanerozoic Flin Flon domain: Insights from geophysics, geochemistry, and geochronology

ABSTRACT

The Manitoba Geological Survey is producing new 2D geological maps of large portions of the eastern Flin Flon domain that lie buried below Phanerozoic cover. This presentation reviews new geological interpretation of distinct geophysical subdomains; drillcore studies including geochemistry and geochronology provide further evidence that more lithological diversity is present than previously thought. This work expands to the west as a collaborative project with the Saskatchewan Geological Survey and Geological Survey of Canada to develop 3D crustal-scale models that extend south from the Flin Flon area into the sub-Phanerozoic. Guided by the National Geological Surveys Committee, the project is a pilot to develop the next generation of collaborative federal, provincial and industry geoscience programming.

BIOGRAPHY

Kyle Reid joined the Manitoba Geological Survey as a project geologist in 2016. The focus of his recent work has been in the Flin Flon greenstone belt, particularly where juvenile volcanic rocks and volcanogenic massive sulphide mineralization occur under Phanerozoic cover rocks. Research interests include geological mapping, structural geology, and ore deposits. Kyle received his B.Sc. in geology and environmental science from Brandon University and a Ph.D. from the University of Saskatchewan.



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