

MANITOBA

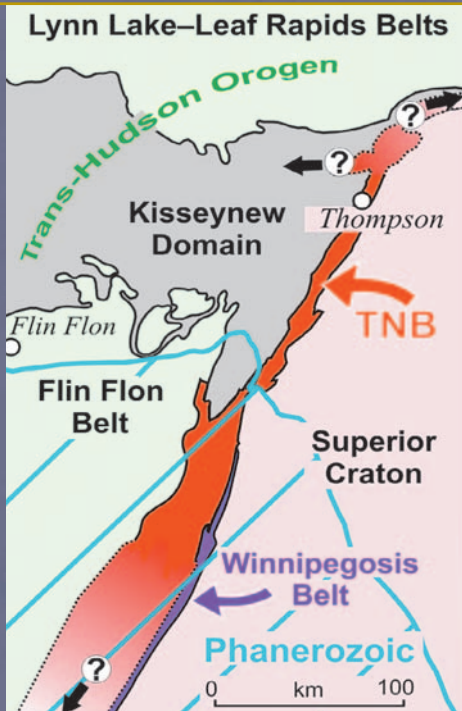
EXPLORING FOR BASE METALS

Innovative work by the Manitoba Geological Survey and partners is shedding new light on the substantial base-metal potential in the Superior Boundary Zone and Trans-Hudson Orogen.

The Superior Boundary Zone is best known for its Thompson Nickel Belt (TNB) and contained world-class nickel deposits. The Trans-Hudson Orogen is renowned for its large volcanic-hosted massive sulphide (VMS) deposits in the Flin Flon, Lynn Lake and Rusty Lake greenstone belts.

Despite its economic importance, the TNB has until recently been poorly understood. Detailed lithostratigraphy, sophisticated isotopic tools and new regional-scale aeromagnetic maps are helping to identify nickel-hosting TNB Ospwagan Group rocks in areas where they were previously unrecognized. The limit of the TNB has also been better defined and extended into areas of poor exposure northeast and northwest of Thompson and at the east margin of the metasedimentary Kisseynew Belt.

Greenstone belts in the Trans-Hudson Orogen, such as the Flin Flon–Snow Lake belt, include the most productive Paleoproterozoic VMS districts in the world. Manitoba Geological Survey maps are readily available for these belts and collaborative government-industry-university research projects in the past decade have significantly advanced our understanding of the setting of the contained volcanic-hosted copper-zinc deposits.



GEOSCIENCE – KEY TO A GROWING INDUSTRY

With increasing global competition for mineral and petroleum investment, access to reliable, high-quality geoscience data has become a critical factor in exploration decision-making. To ensure Manitoba's effectiveness in the global arena, the Manitoba Geological Survey continues to conduct new and innovative programs in collaboration with federal government, industry and academic partners.

