

Quaternary stratigraphic investigations along the Gods and Yakaw rivers, northeastern Manitoba (parts of NTS 54C2, 7)

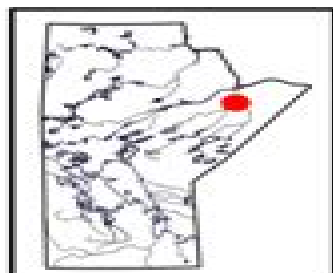
by N. Mesich¹, M.S. Gauthier, T.J. Hodder, J. Hathaway²,
M. Schaarschmidt³, O.B. Lian³ and M. Ross²

In Brief:

- Study of the Quaternary stratigraphy along the Gods and Yakaw rivers, near the confluence with the Hayes River
- Till samples collected to determine provenance and explore the economic potential of the region
- Intertill nonglacial sediments sampled for geochronology and paleoenvironment characterization

Citation:

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Summary

In August 2023, the Quaternary stratigraphy of eight sections situated on the Gods and Yakaw rivers, in the Hudson Bay Lowland of northeastern Manitoba, were investigated. The goals of this remote fieldwork were to establish a more complete understanding of the Quaternary history of the region and to collect indicator-mineral samples to assist with drift exploration efforts. This data will enable better mineral-potential assessment for the region, and help to interpret the provenance of tills in this glacially complex area. Ninety-eight till samples were collected for both clast lithological and geochemical analyses, with an additional 33 samples collected for indicator-mineral analysis. Additionally, till-clast fabric measurements were conducted at 55 sample sites to interpret paleo-ice-flow direction during deposition. Intertill sorted sediments were documented and sampled whenever possible, using a variety of methods to establish paleoenvironmental conditions and geochronology constraints.

Introduction

The Manitoba Geological Survey (MGS) studied the Quaternary stratigraphy of eight sections along the Gods and Yakaw rivers in northeastern Manitoba in August 2023. These sites were accessed via helicopter and the fieldwork was conducted over the span of two weeks. The objectives of this study were to

- observe and document the Quaternary stratigraphy of exposed sections;
- collect till samples and clast-fabric measurements within till, to interpret paleo-ice-flow directions;
- assess the economic potential of the region using newly acquired till composition datasets; and
- collect geochronological and paleobotanical samples to help establish stratigraphic correlations in the Hudson Bay Lowland (HBL).

Previous work

In 1967, the Geological Survey of Canada initiated Operation Winisk to better understand the geology of the HBL region of Quebec, Ontario and Manitoba (Craig, 1969; McDonald, 1969). Operation Winisk was the first reconnaissance-level survey of the study area, and included preliminary observations of numerous sites along the Hayes and Gods rivers (Figure GS2023-13-1). Netterville (1974) investigated the Quaternary stratigraphy of 10 sections along Gods River, five of which are close to the study area (Figure GS2023-13-1). Several distinct diamictons, interpreted as till, were noted along with one intertill, organic-bearing, sorted-sediment bed (referred to as Gods River sediments), which was interpreted to have been deposited during an interglacial period (Netterville, 1974). Additional regional studies by Klassen (1986) and Hodder et al. (2017) include descriptions of several sections within the study area (Figure GS2023-13-1). To further investigate a relatively high indicator-mineral concentration identified at a site documented in Hodder et al. (2017), the MGS conducted fieldwork to collect indicator-mineral samples and observe the Quaternary stratigraphy near the confluence of the Hayes and Gods rivers (Hodder and Gauthier, 2022; Figure GS2023-13-1). The reconnaissance-level surficial geology of the region was mapped at a 1:250 000 scale (Klassen and Netterville, 1978).

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Table of Contents Review Of Quaternary Investigations In G

1. Understanding the eBook Review Of Quaternary Investigations In G
 - The Rise of Digital Reading Review Of Quaternary Investigations In G
 - Advantages of eBooks Over Traditional Books
2. Identifying Review Of Quaternary Investigations In G
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Review Of Quaternary Investigations In G
 - User-Friendly Interface
4. Exploring eBook Recommendations from Review Of Quaternary Investigations In G
 - Personalized Recommendations
 - Review Of Quaternary Investigations In G User Reviews and Ratings
 - Review Of Quaternary Investigations In G and Bestseller Lists
5. Accessing Review Of Quaternary Investigations In G Free and Paid eBooks
 - Review Of Quaternary Investigations In G Public Domain eBooks
 - Review Of Quaternary Investigations In G eBook Subscription Services
 - Review Of Quaternary Investigations In G Budget-Friendly Options

6. Navigating Review Of Quaternary Investigations In G eBook Formats
 - ePub, PDF, MOBI, and More
 - Review Of Quaternary Investigations In G Compatibility with Devices
 - Review Of Quaternary Investigations In G Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Review Of Quaternary Investigations In G
 - Highlighting and Note-Taking Review Of Quaternary Investigations In G
 - Interactive Elements Review Of Quaternary Investigations In G
8. Staying Engaged with Review Of Quaternary Investigations In G
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Review Of Quaternary Investigations In G
9. Balancing eBooks and Physical Books Review Of Quaternary Investigations In G
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Review Of Quaternary Investigations In G
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Review Of Quaternary Investigations In G
 - Setting Reading Goals Review Of Quaternary Investigations In G
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Review Of Quaternary Investigations In G
 - Fact-Checking eBook Content of Review Of Quaternary Investigations In G
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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