

Tectonic relationships along the proposed central Newfoundland Lithoprobe transect and regional correlations¹

Harold Williams², M.A.J. Piasecki³, and S.P. Colman-Sadd⁴

Williams, H., Piasecki, M.A.J., and Colman-Sadd, S.P., Tectonic relationships along the proposed central Newfoundland Lithoprobe transect and regional correlations; in Current Research, Part B, Geological Survey of Canada, Paper 89-1B, p. 55-66, 1989.

Abstract

The proposed Lithoprobe transect of central Newfoundland, Meelpaeg Transect, crosses the Humber, Dunnage, Gander and part of the Avalon tectonostratigraphic zones. The transect also crosses the boundaries between Grenville, Central and Avalon lower crustal blocks. Clarification of surface zone boundaries, related kinematic studies and appraisals of metamorphic and plutonic zonal expressions provide insight in deciphering relationships between surface rocks and the geometry of lower crustal blocks.

Résumé

Le projet de transect Lithoprobe du centre de Terre-Neuve, le transect Meelpaeg, traverse les zones tectonostratigraphiques de Humber, de Dunnage et de Gander ainsi qu'une partie de celle d'Avalon. Il traverse aussi les limites séparant les blocs crustaux inférieurs de Grenville, du Centre et d'Avalon. La clarification des limites des zones en surface, des études de cinématique connexes et des évaluations des expressions zonales de nature métamorphique et plutonique permettent de déchiffrer les relations qui existent entre les roches superficielles et la géométrie des blocs crustaux inférieurs.

¹ Lithoprobe contribution No. 73.

² Department of Earth Sciences and Centre for Earth Resources Research, Memorial University of Newfoundland, St. John's, Newfoundland, A1B 3X5

³ Department of Geology, University of Hull, Hull, East Yorkshire, HU6 7RX, England

⁴ Newfoundland Department of Mines, St. John's, Newfoundland, A1C 5T7