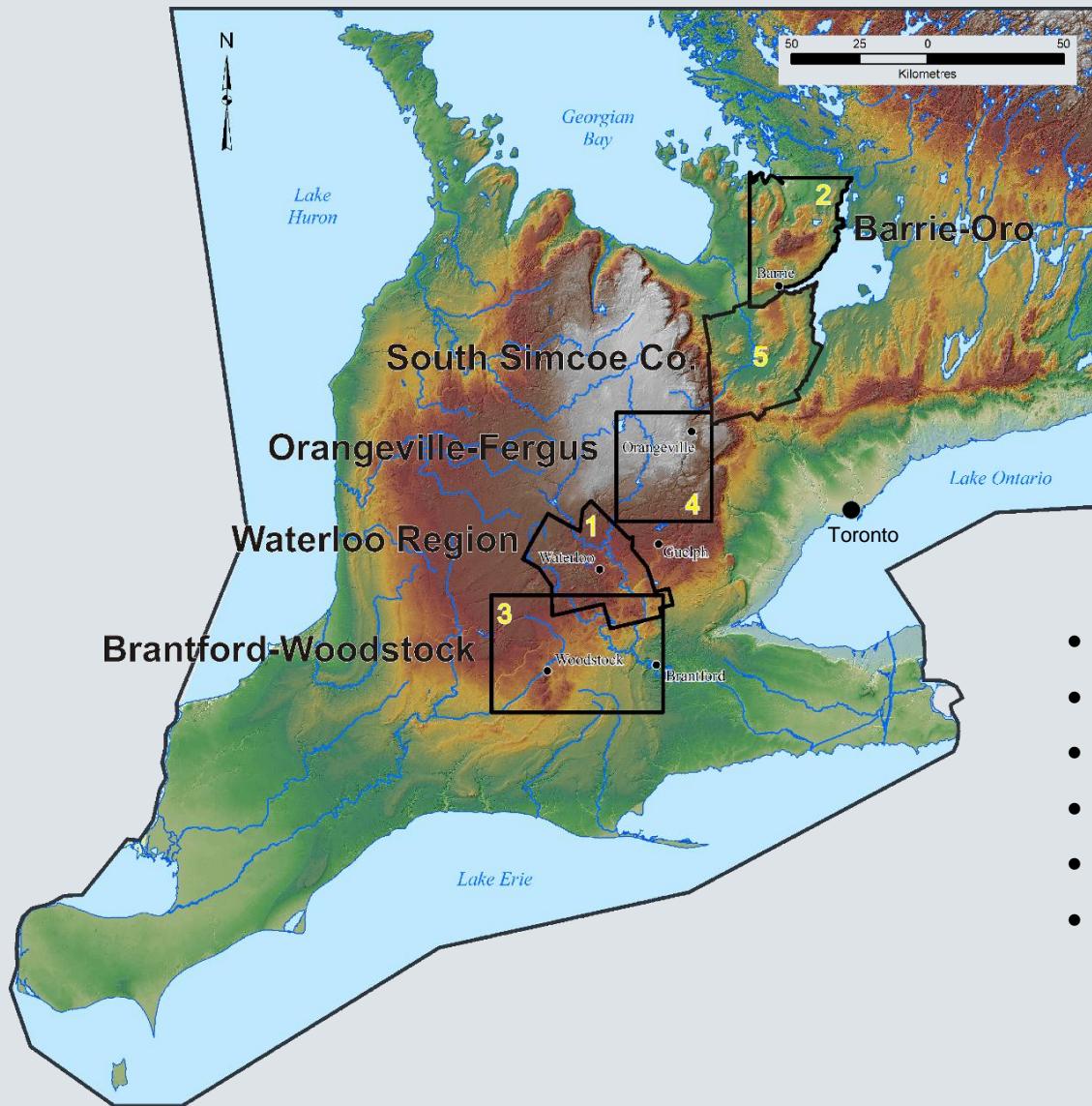


An Update on 3-Dimensional Mapping of Quaternary Deposits in South Simcoe County, Central Ontario.



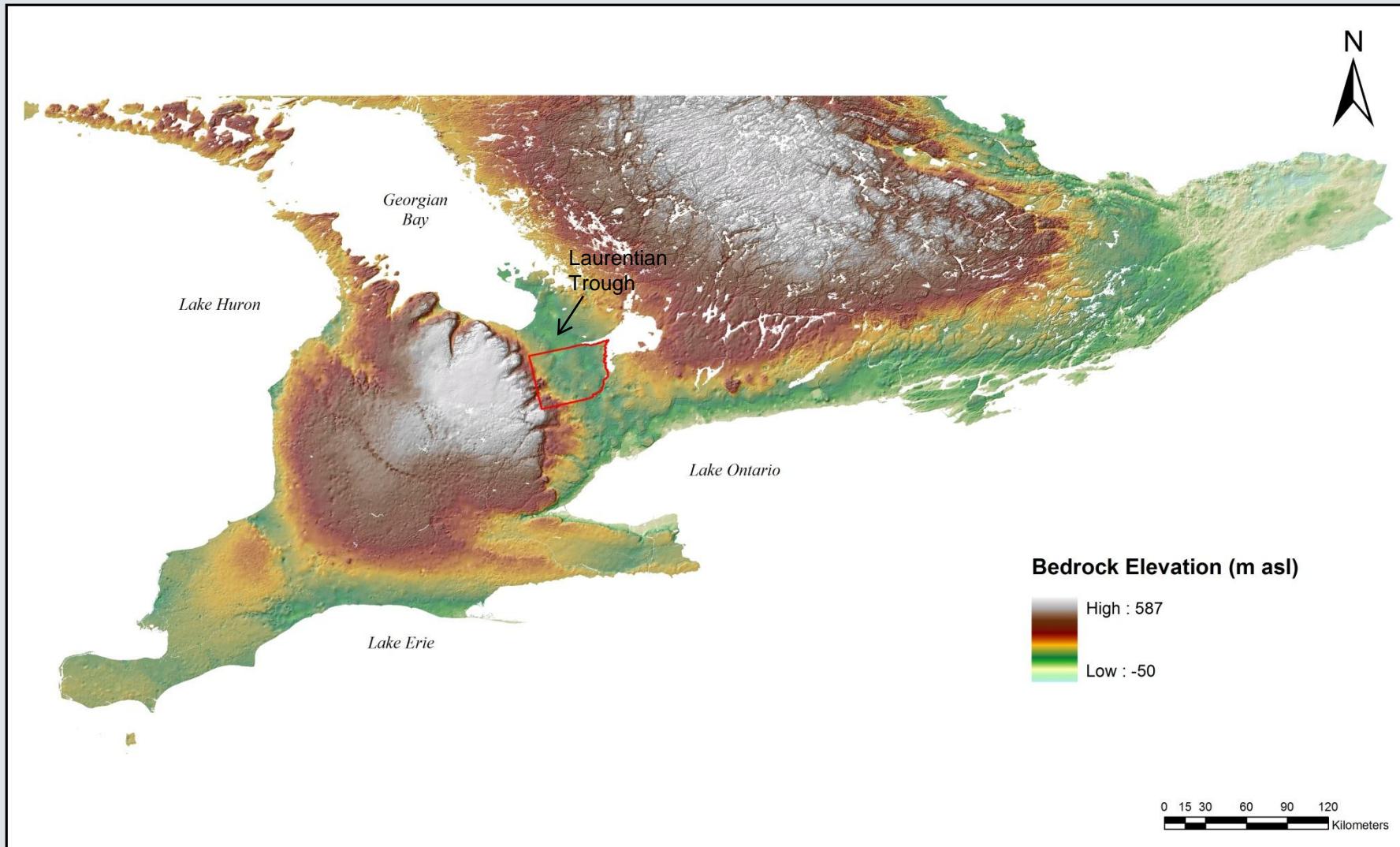
A.F. Bajc, D.R.B. Rainsford and
R.P.M. Mulligan

3-D Mapping at the Ontario Geological Survey

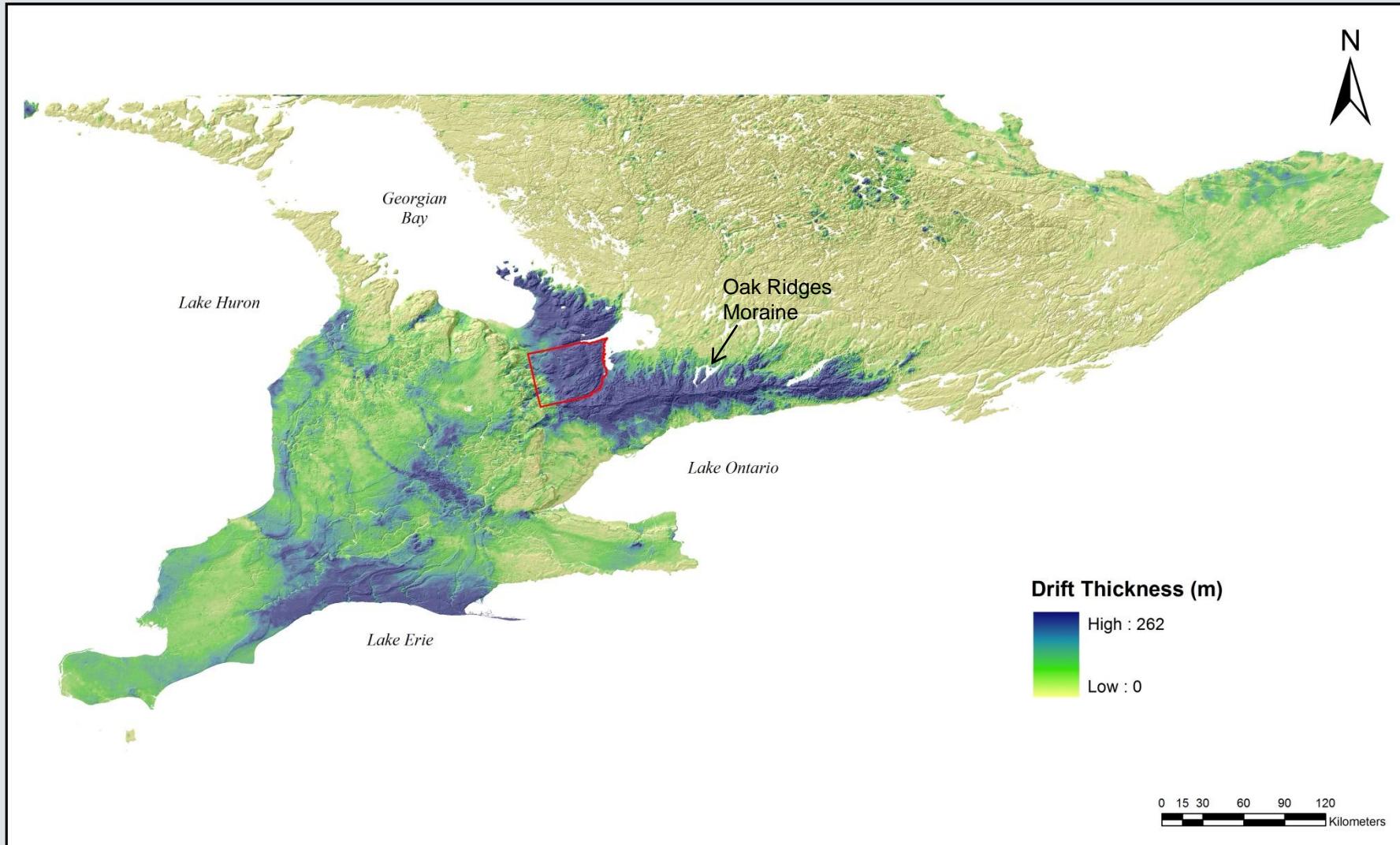


- Introduction
- Geologic Setting
- Gravity Survey
- Subsurface Stratigraphy
- TDEM Survey
- Next Steps

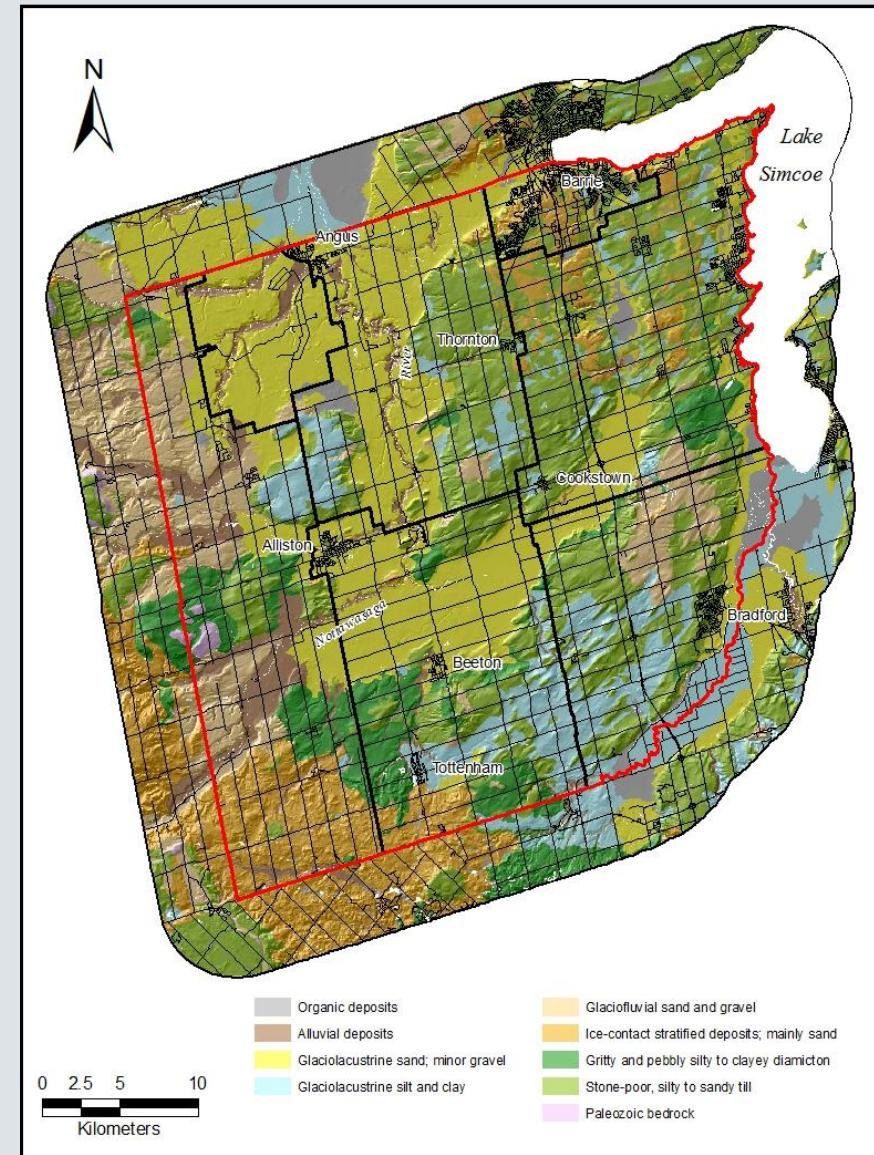
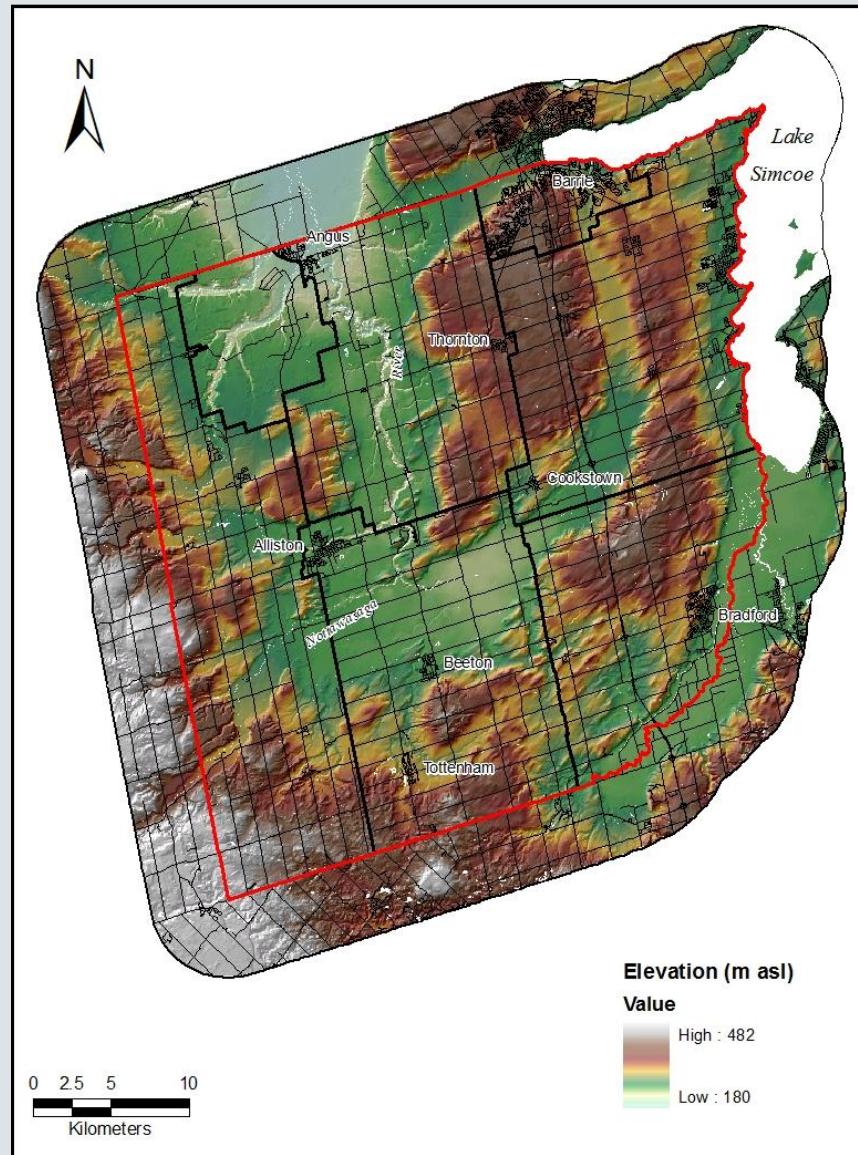
Bedrock Topography



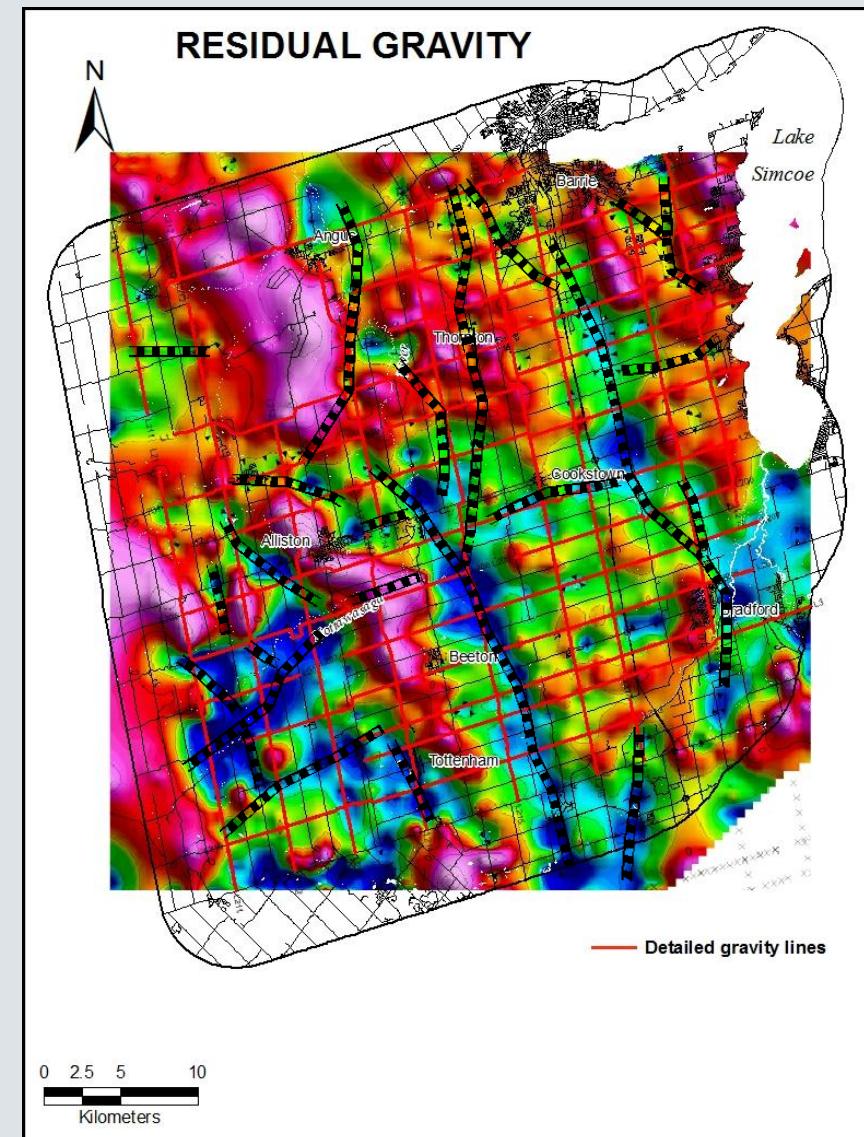
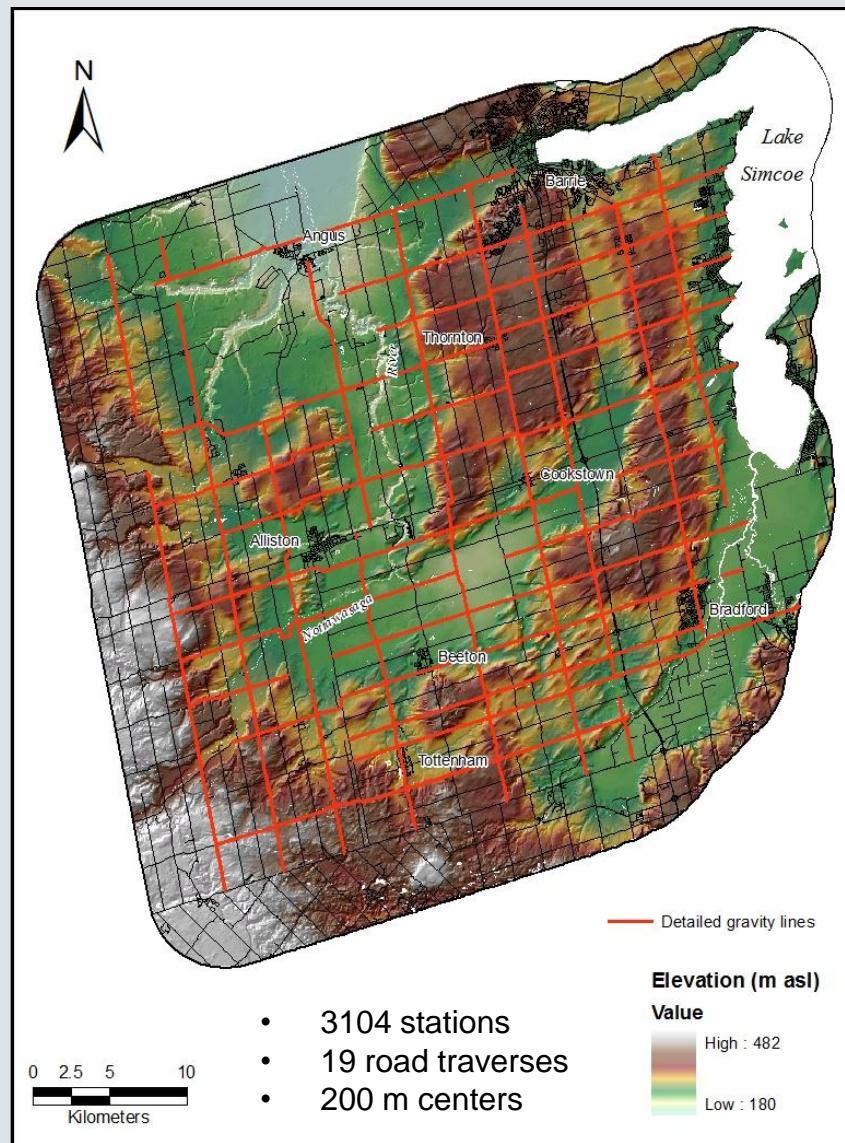
Drift Thickness



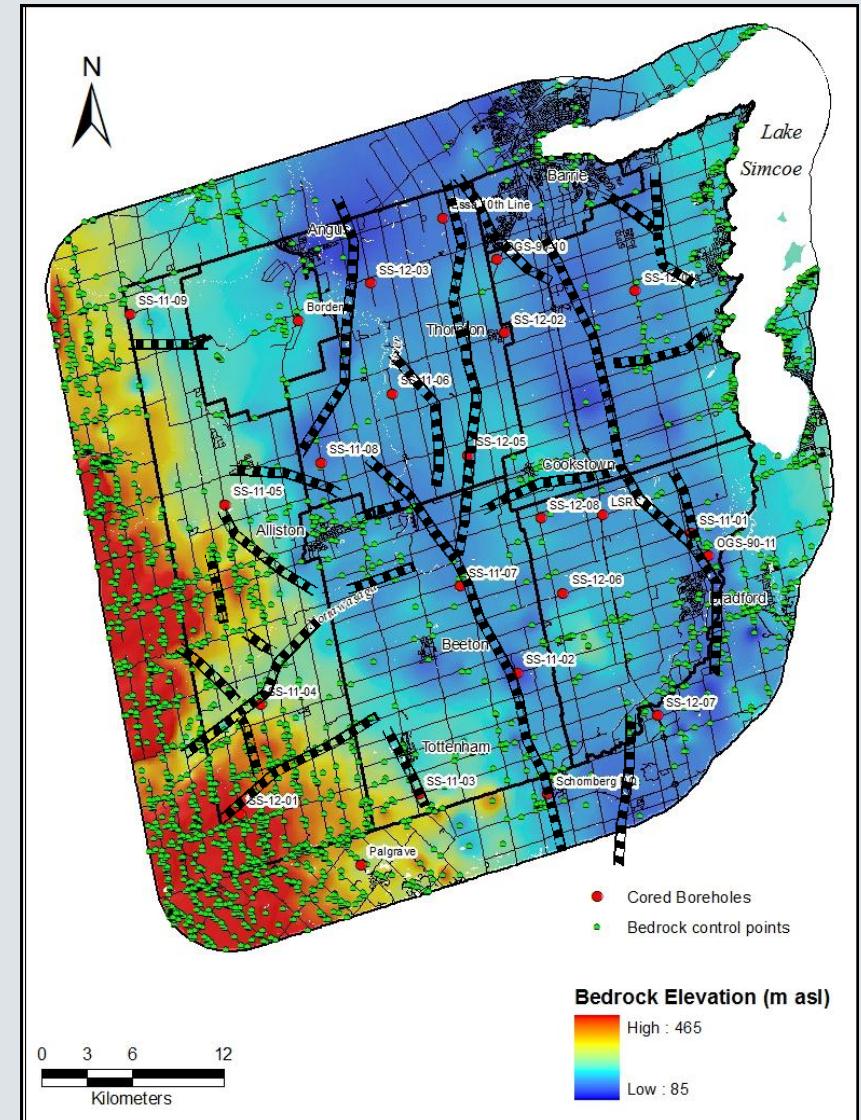
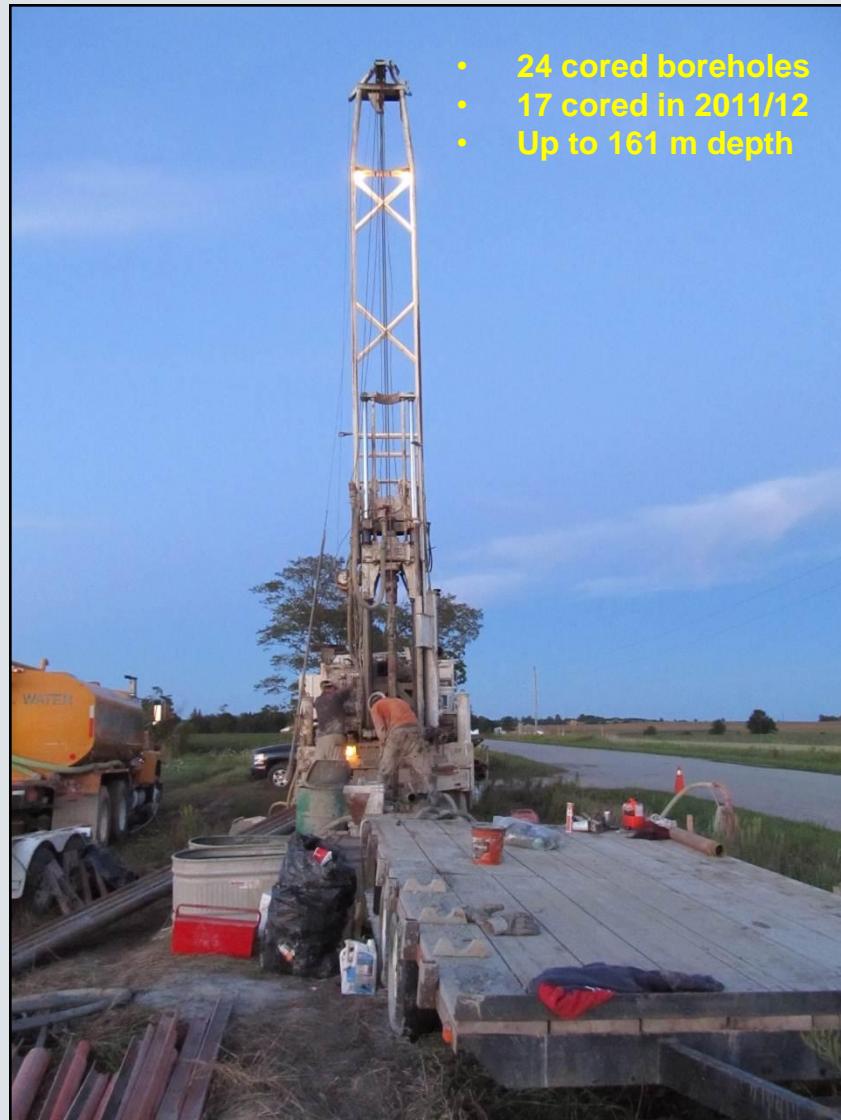
Physiography and Surficial Geology



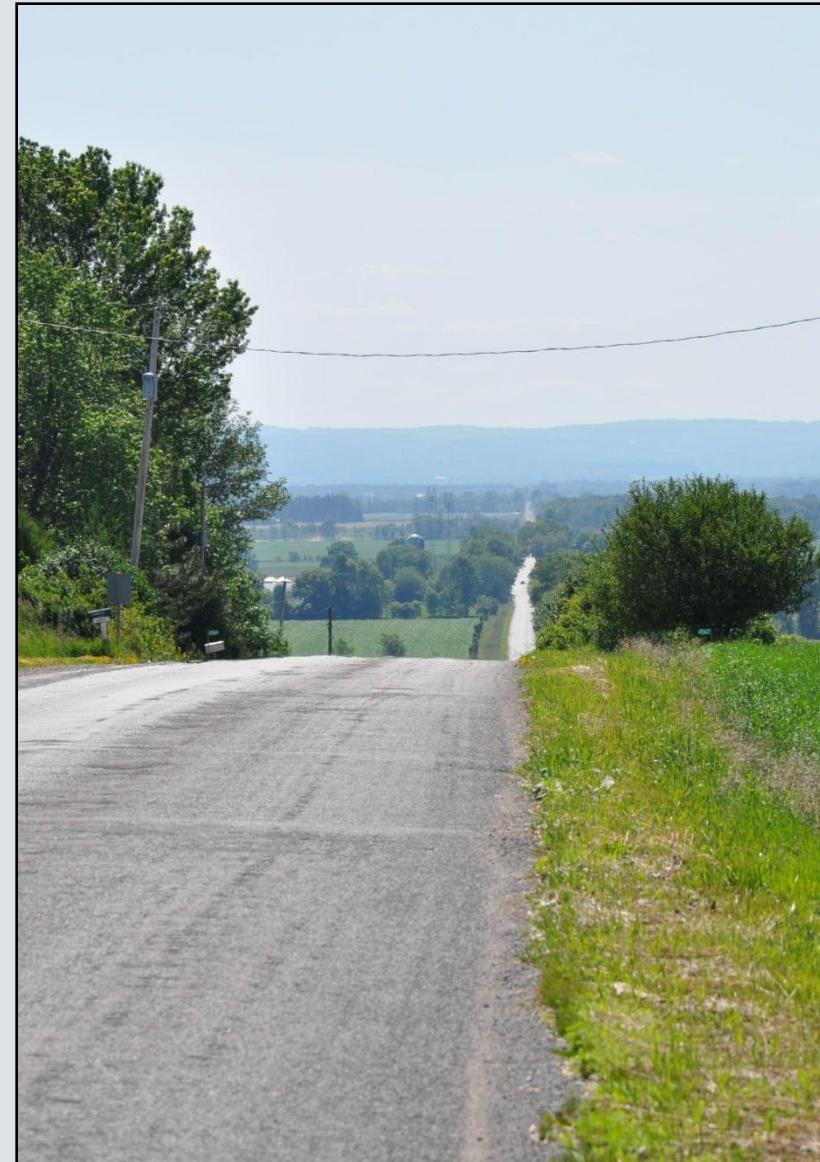
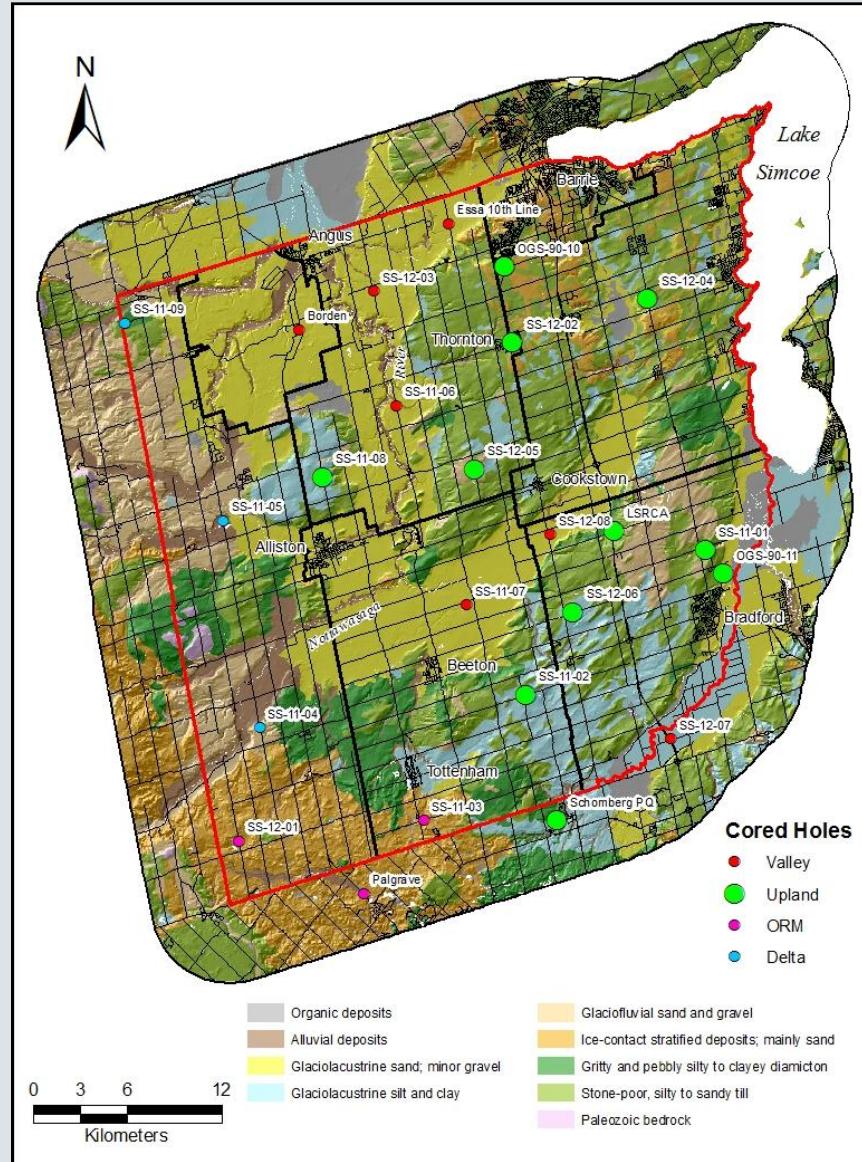
Regional Gravity Survey



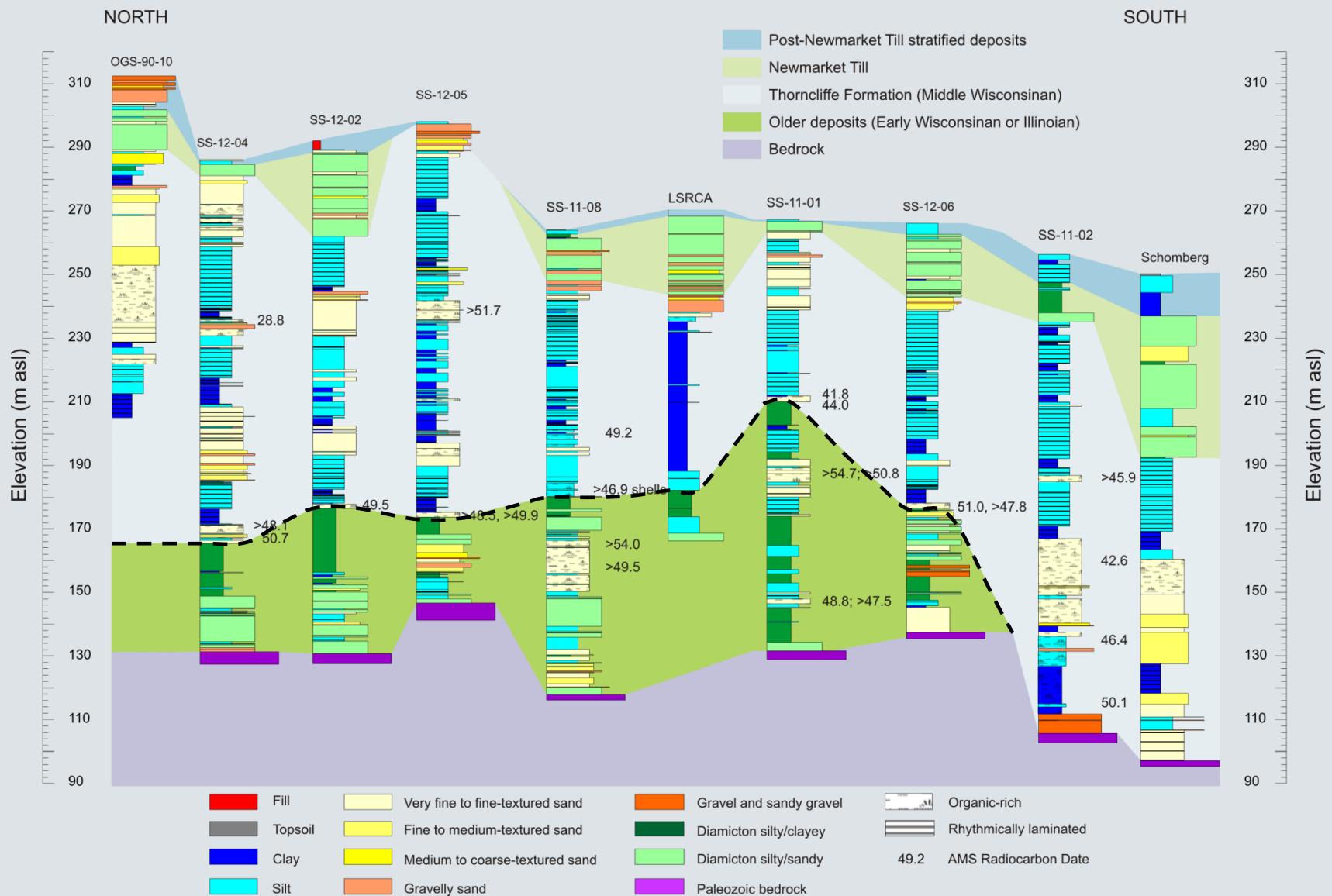
Coring Programs



Upland Stratigraphy



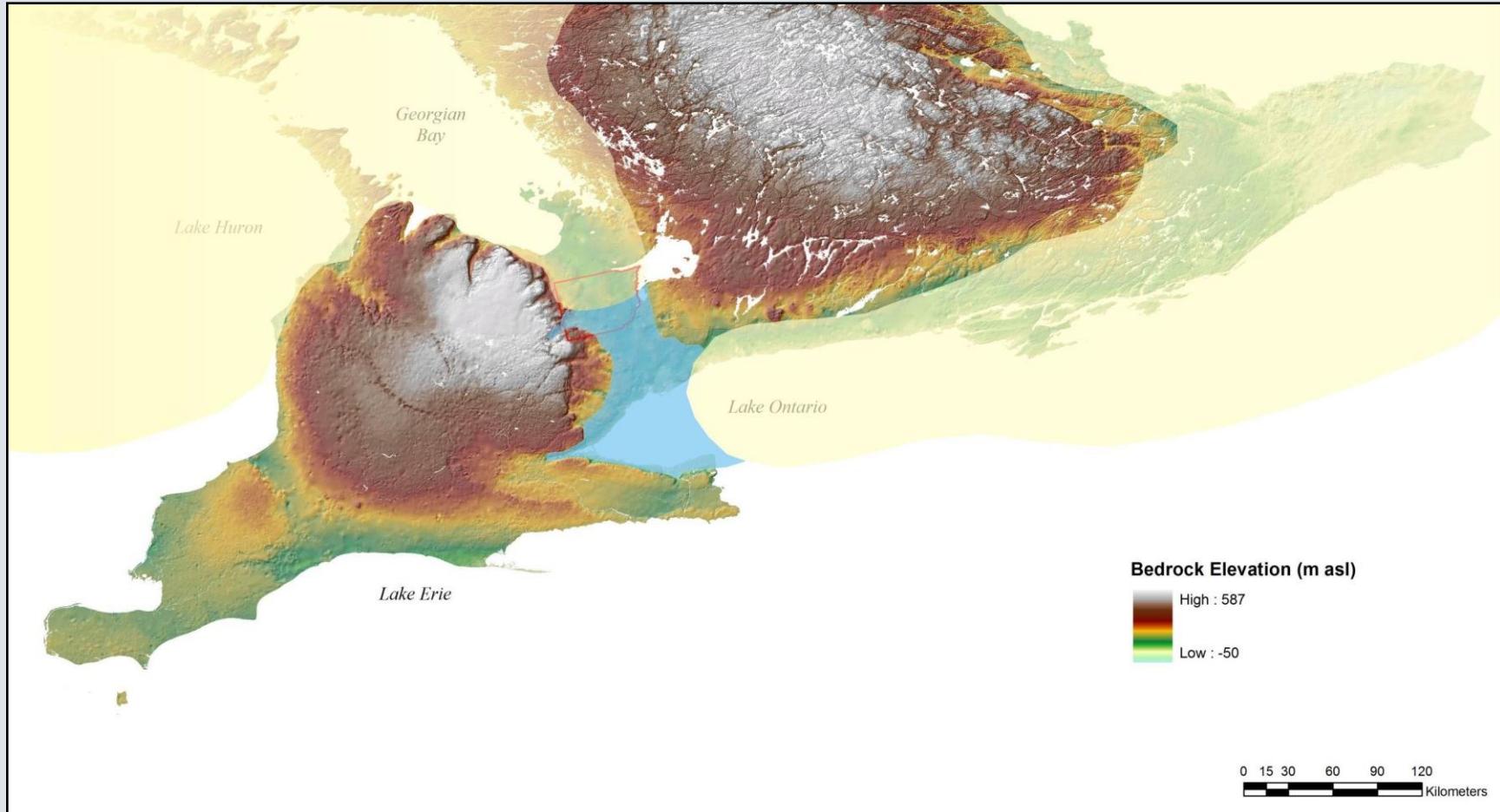
Upland Stratigraphy



Older Tills and Glaciolacustrine Deposits



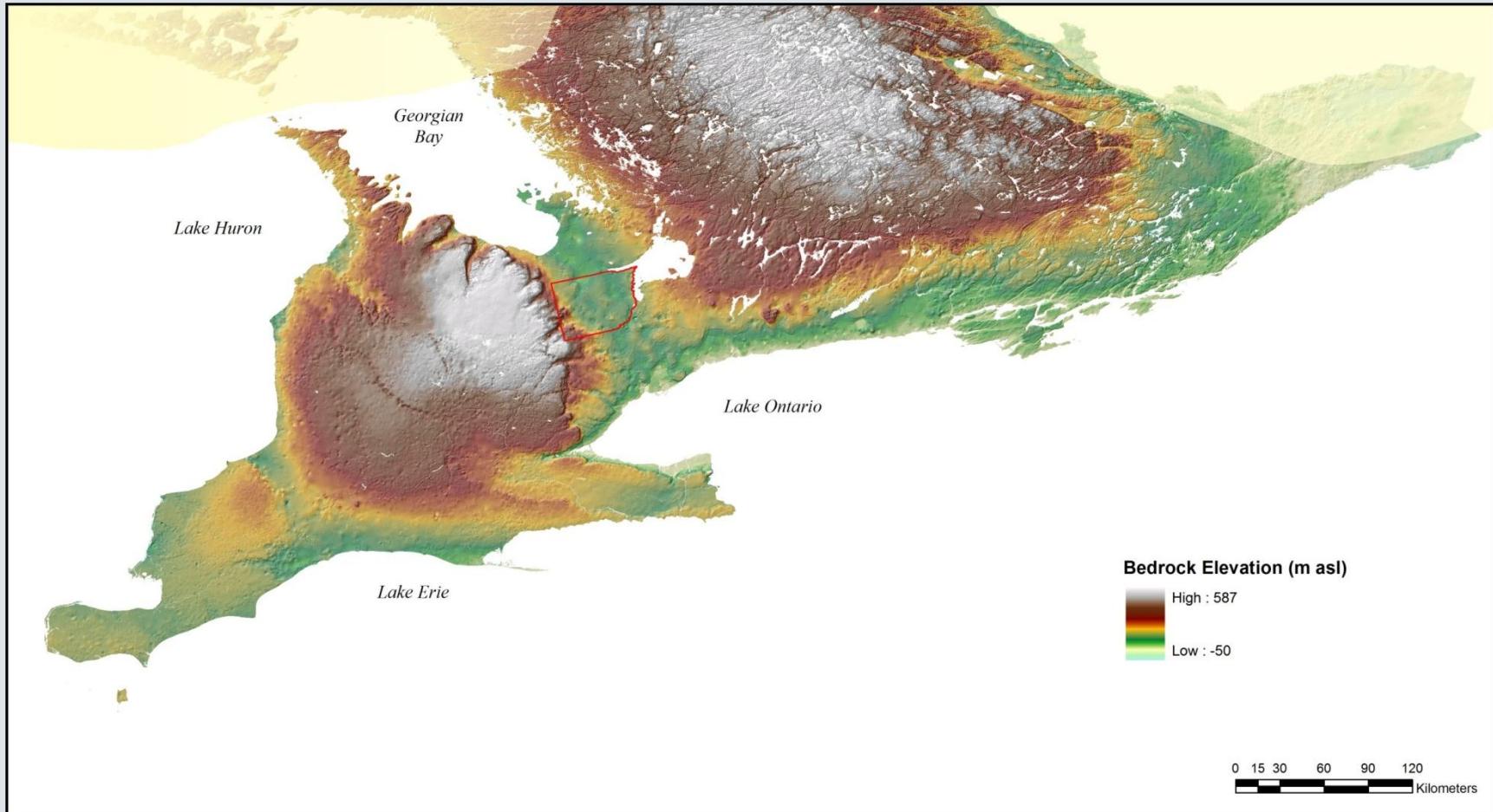
Early Wisconsinan Ice Advance



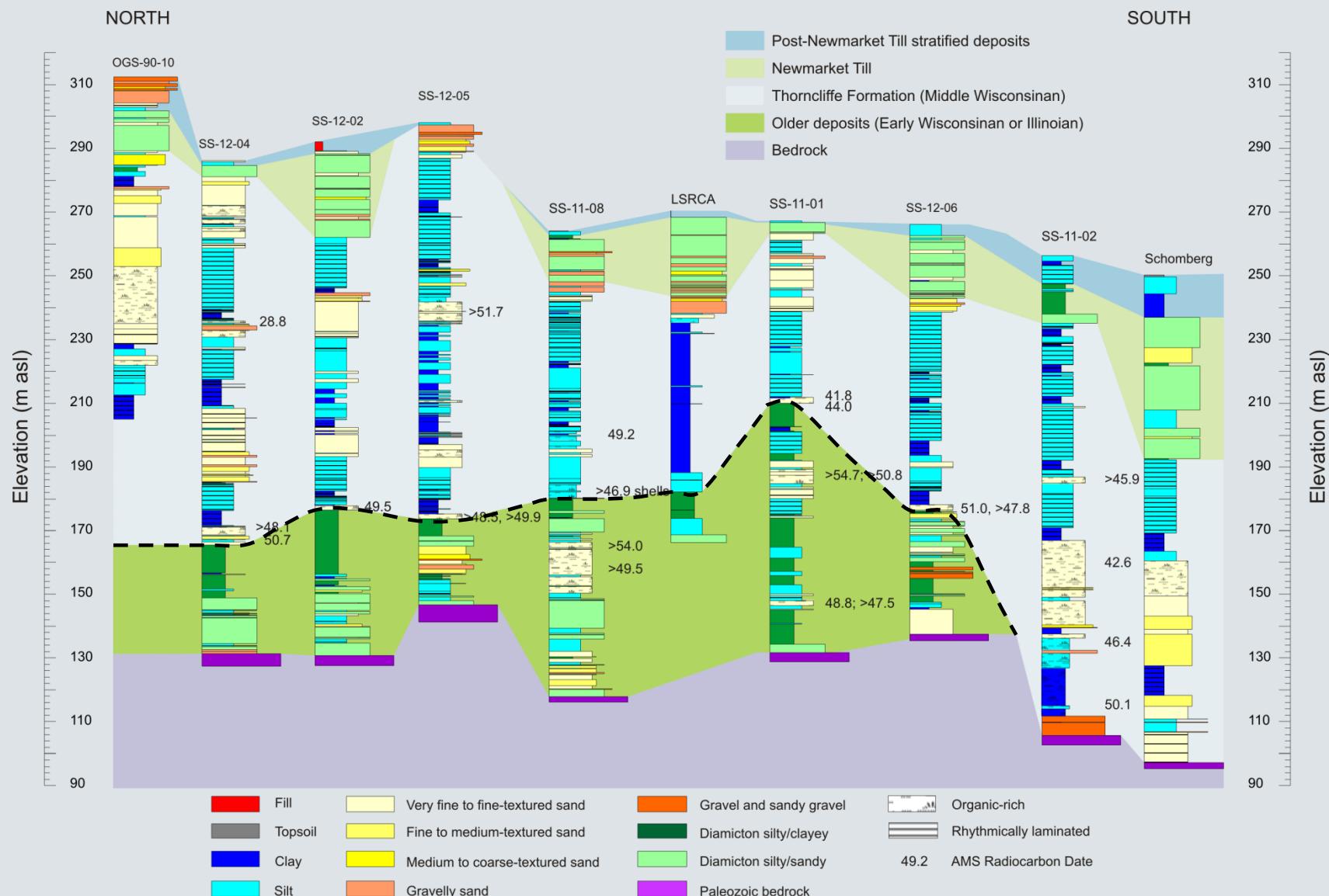
Middle Wisconsinan *Non-Glacial Deposits*



Middle Wisconsinan Ice Retreat



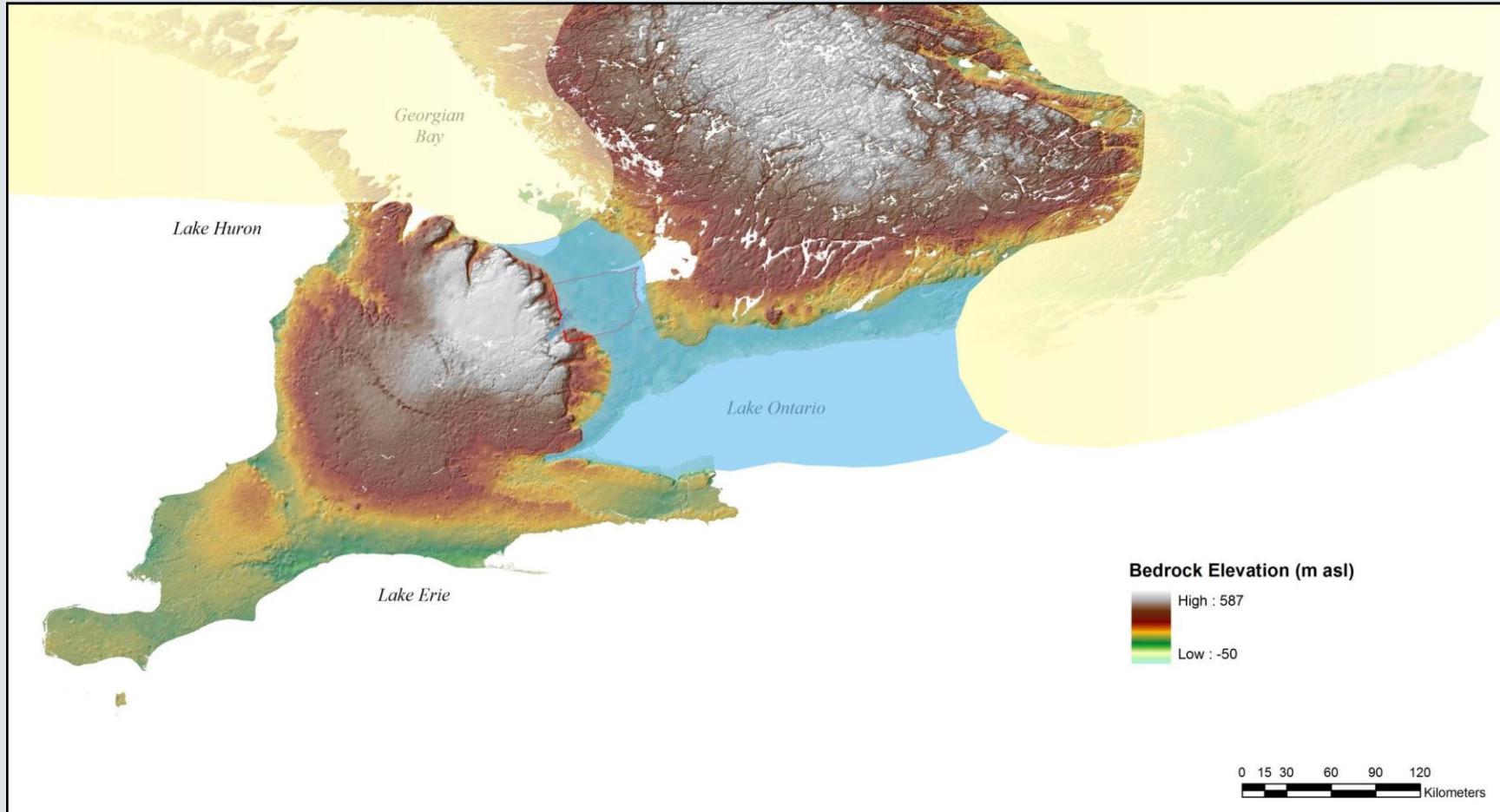
Mid-Late Wisconsinan Glaciolacustrine Deposits



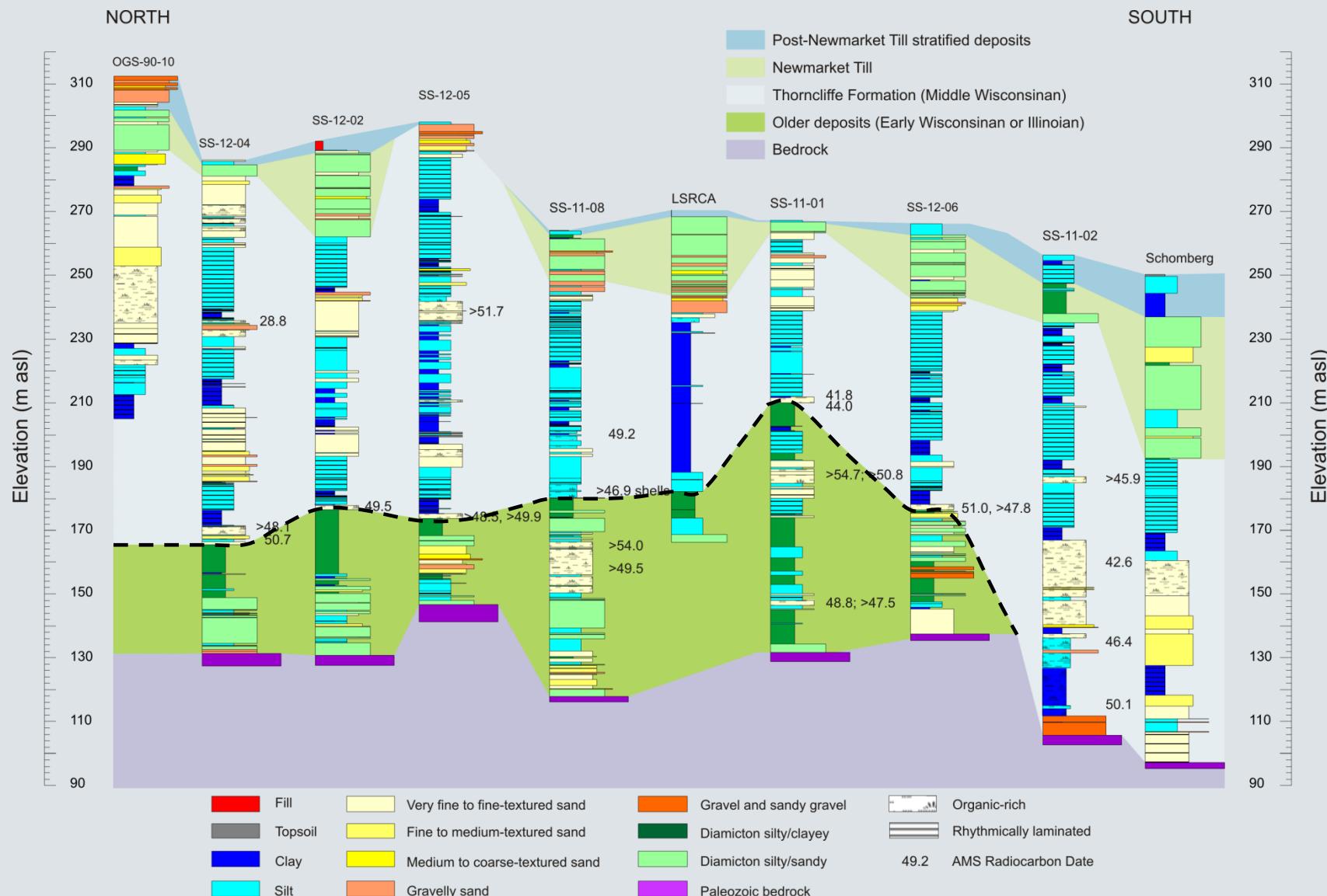
Mid-Late Wisconsinan Glaciolacustrine Deposits



Mid-Late Wisconsinan Ice Advance



Late Wisconsinan Newmarket Till

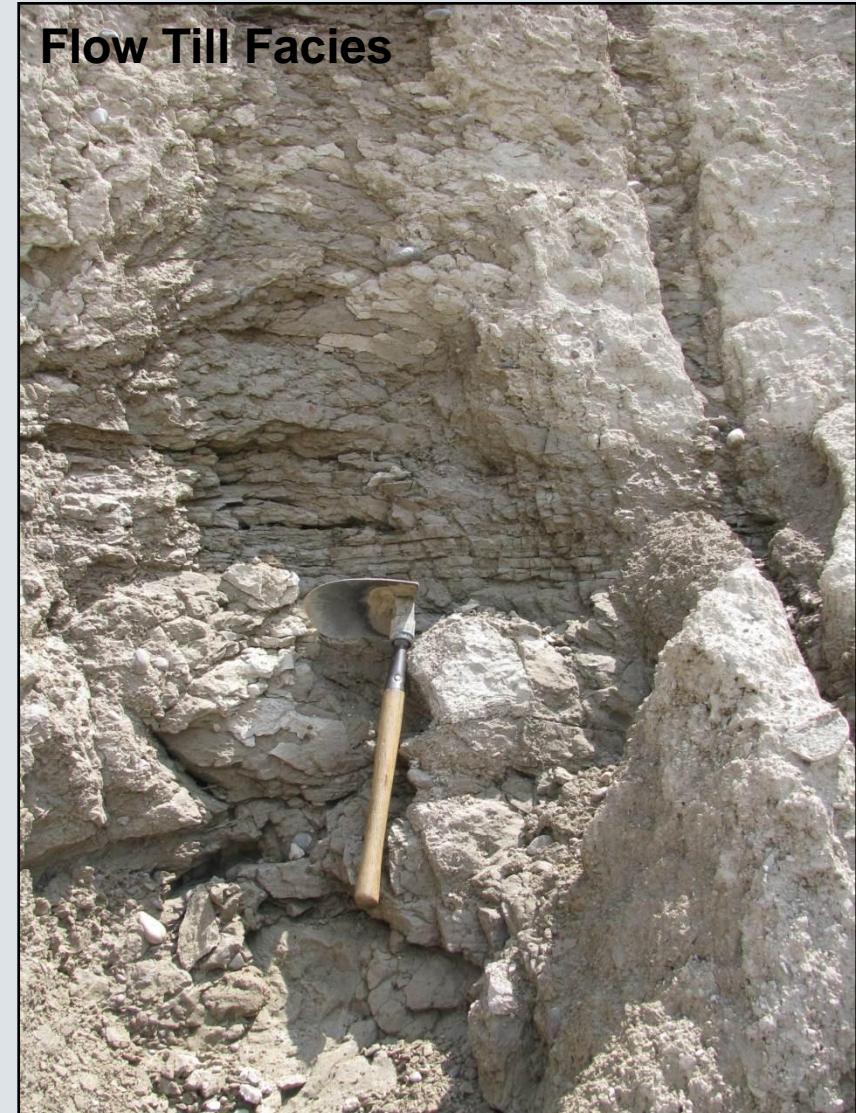


Late Wisconsinan Newmarket Till

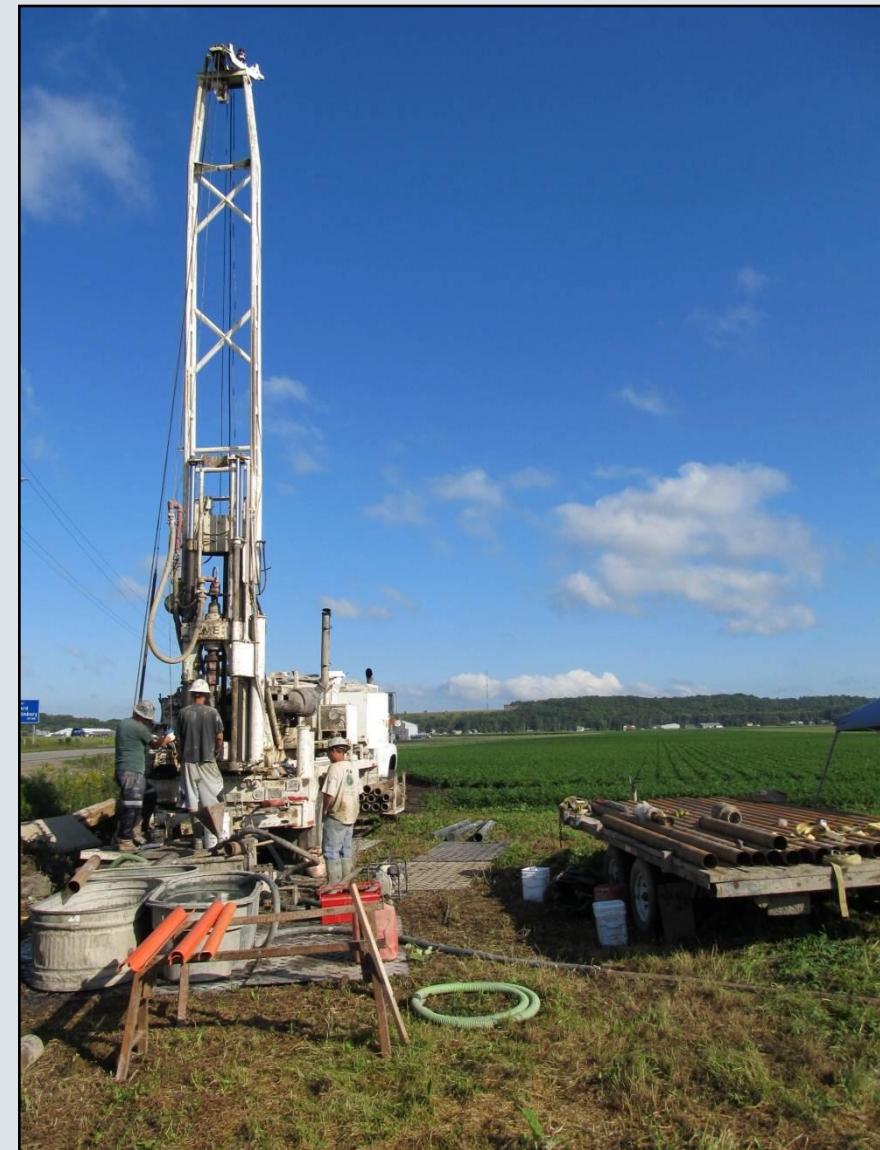
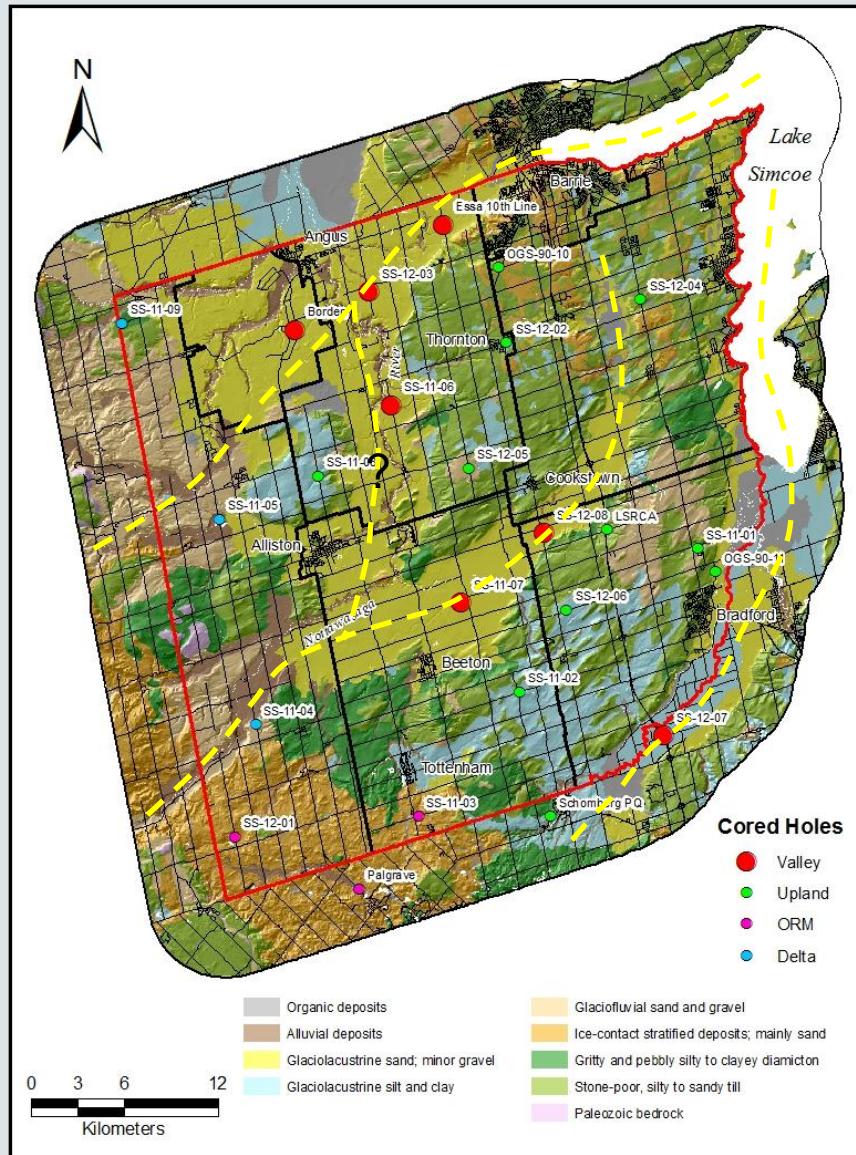
Lodgement Facies



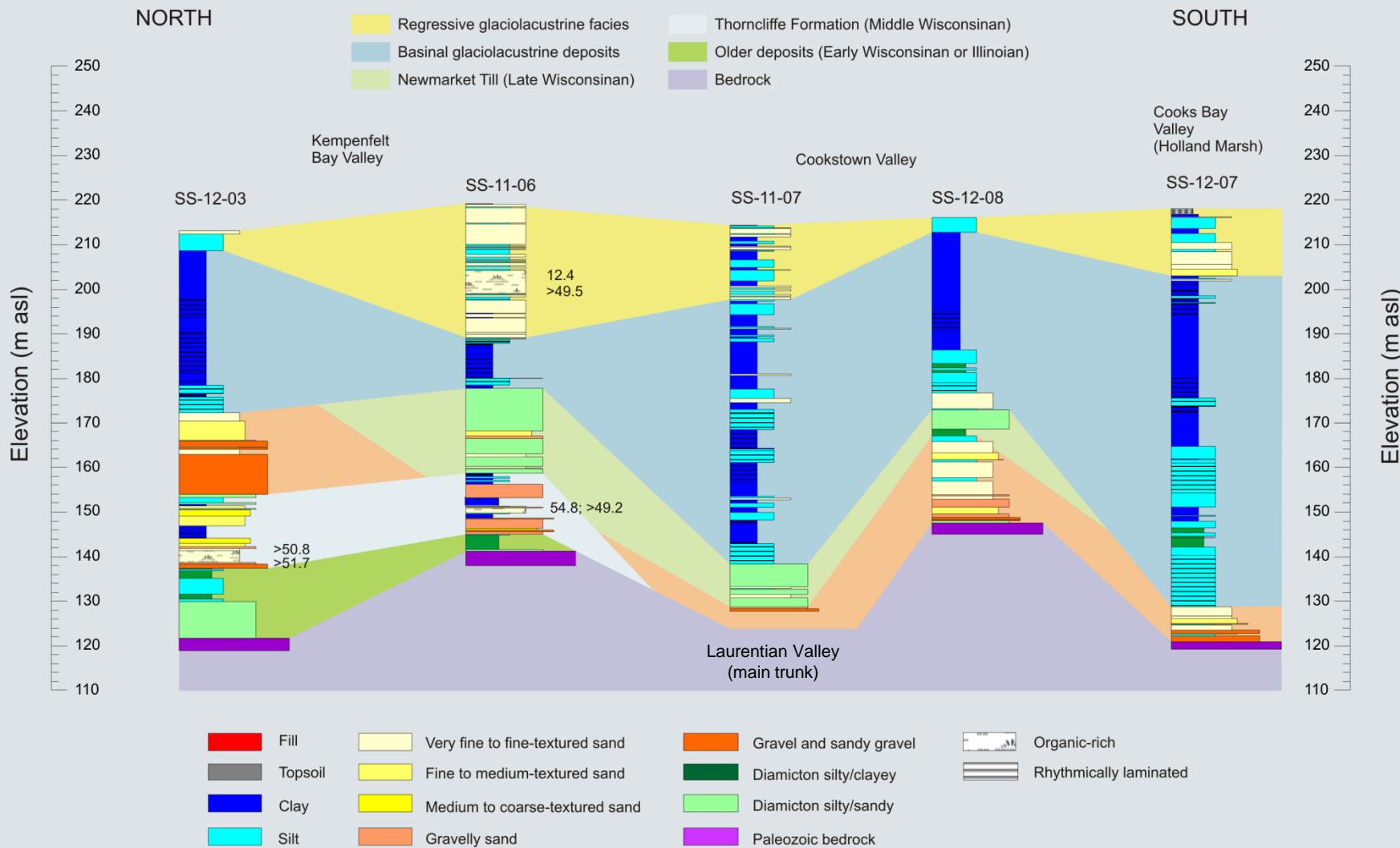
Flow Till Facies



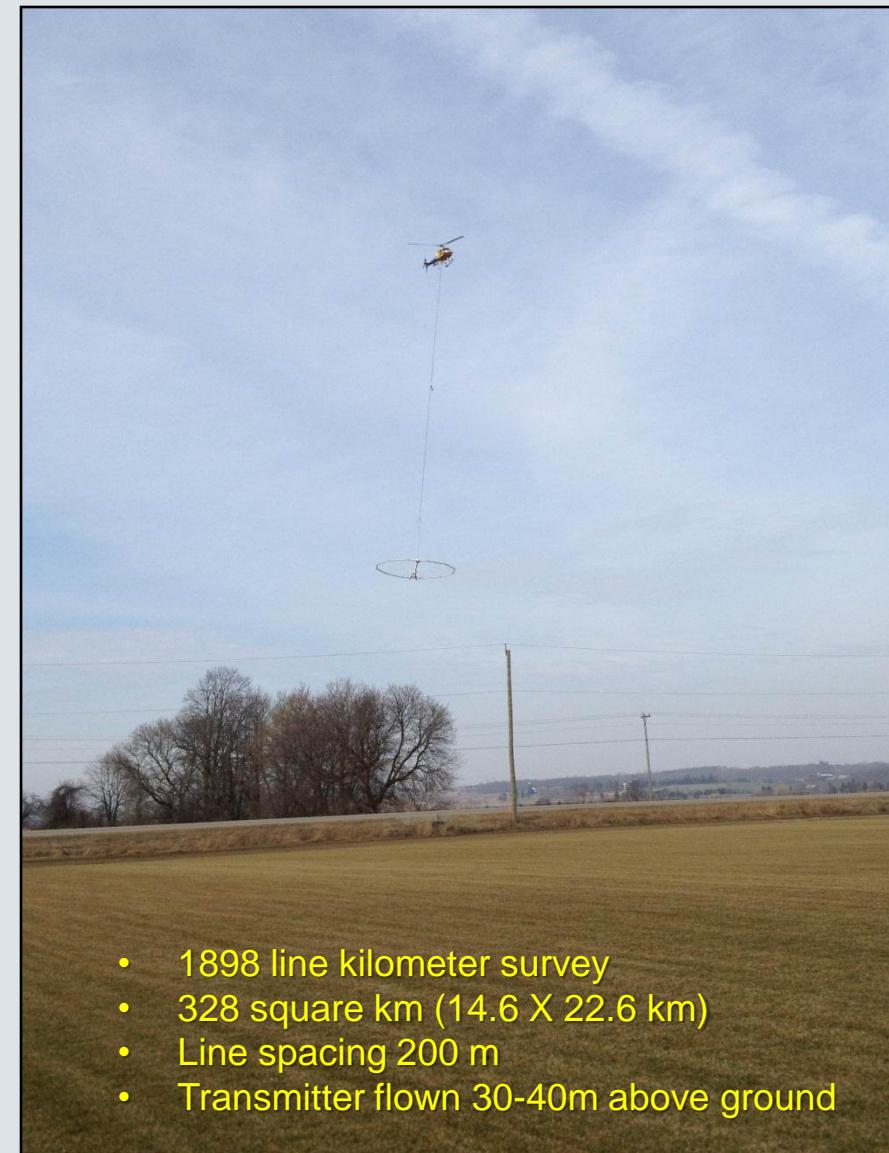
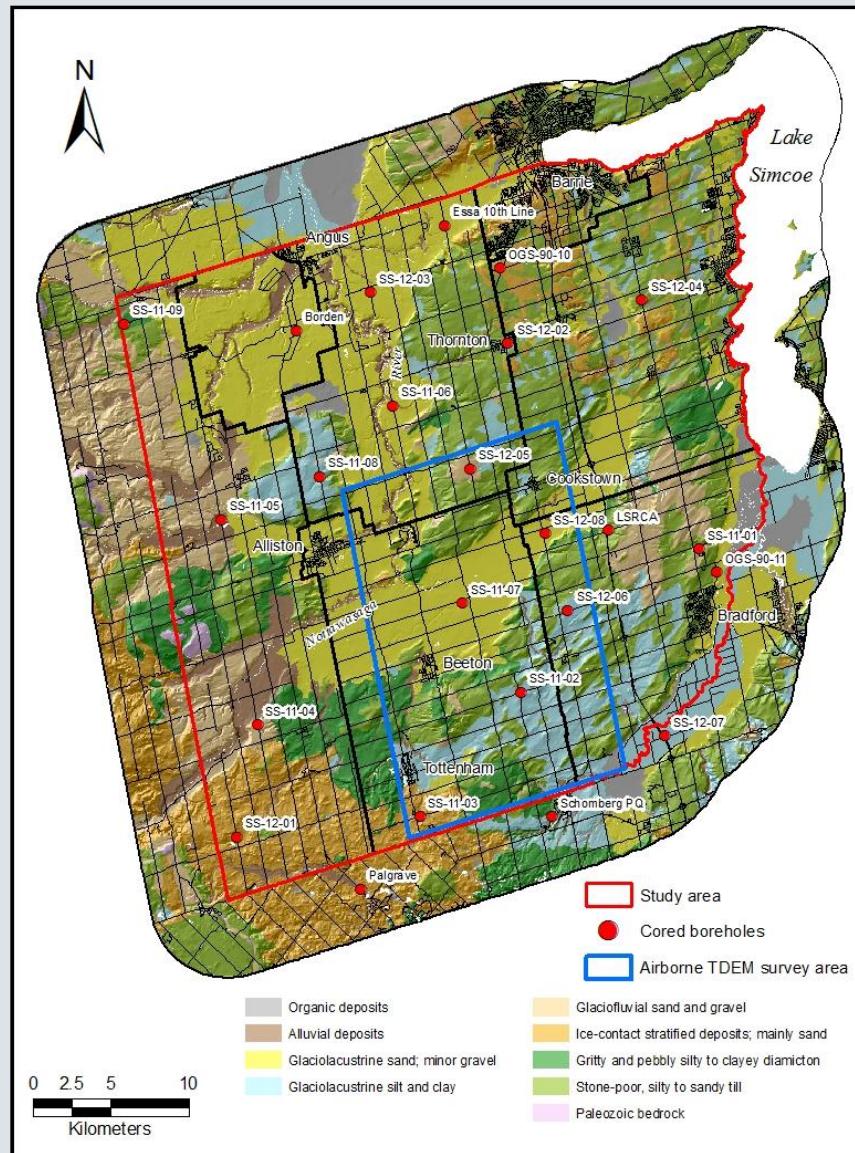
Tunnel Channel Sediment Record



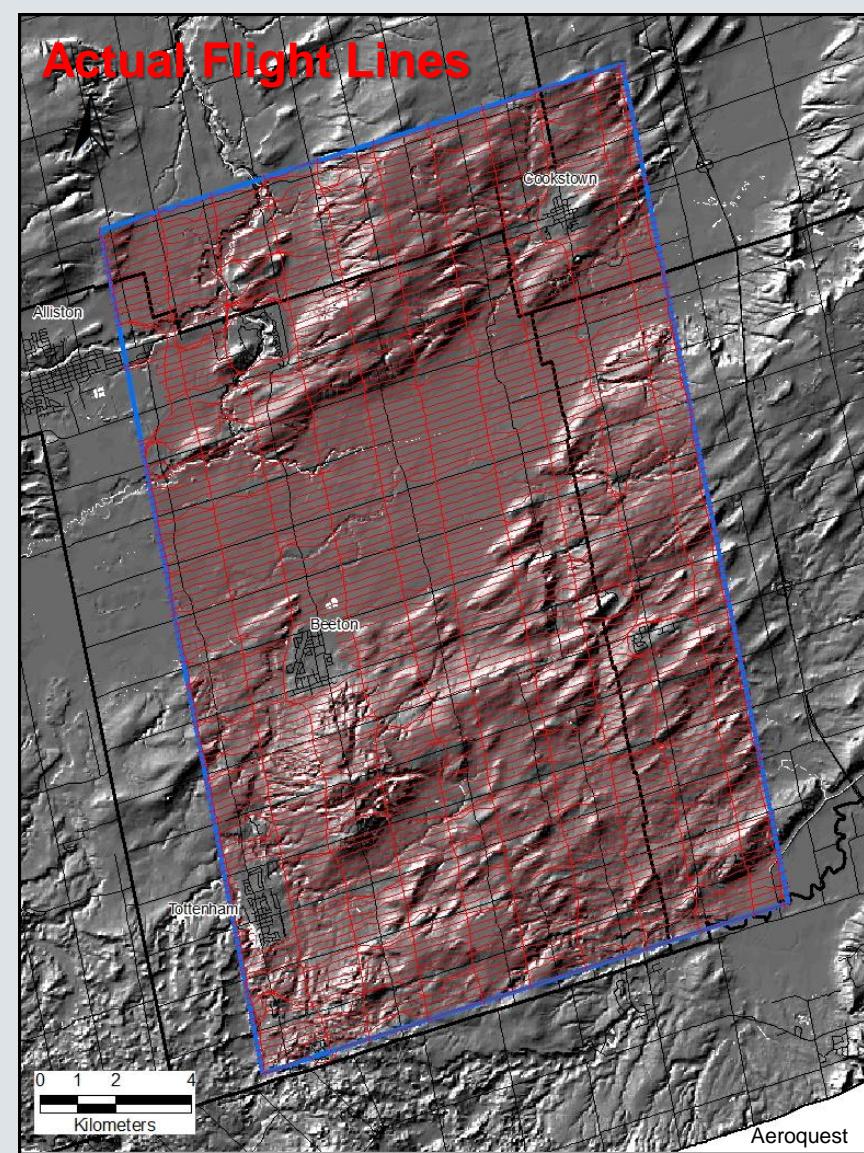
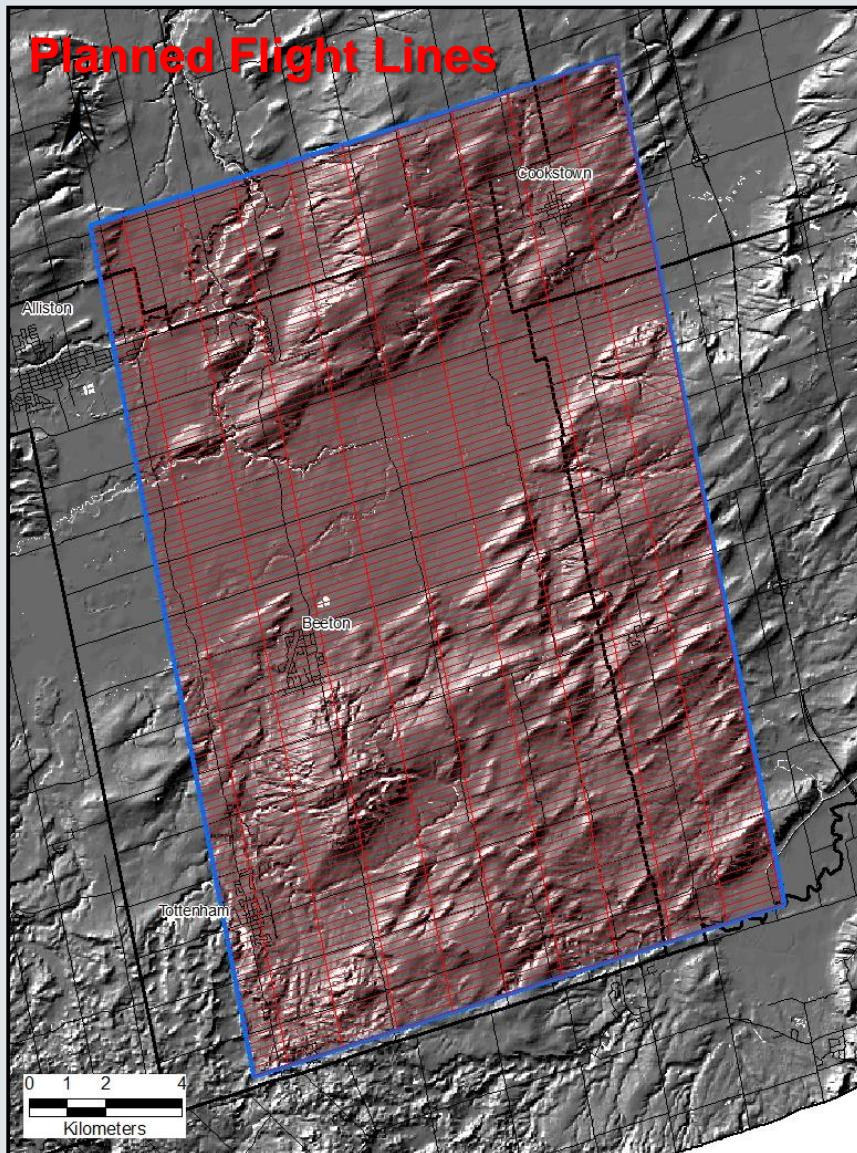
Tunnel Channel Sediment Record



Time-Domain Electromagnetic Survey



Time-Domain Electromagnetic Survey



Time-Domain Electromagnetic Survey

Aarhus Geophysics

Report Number 2012_05

Processing and inversion of AeroTEM data

Client: Aeroquest

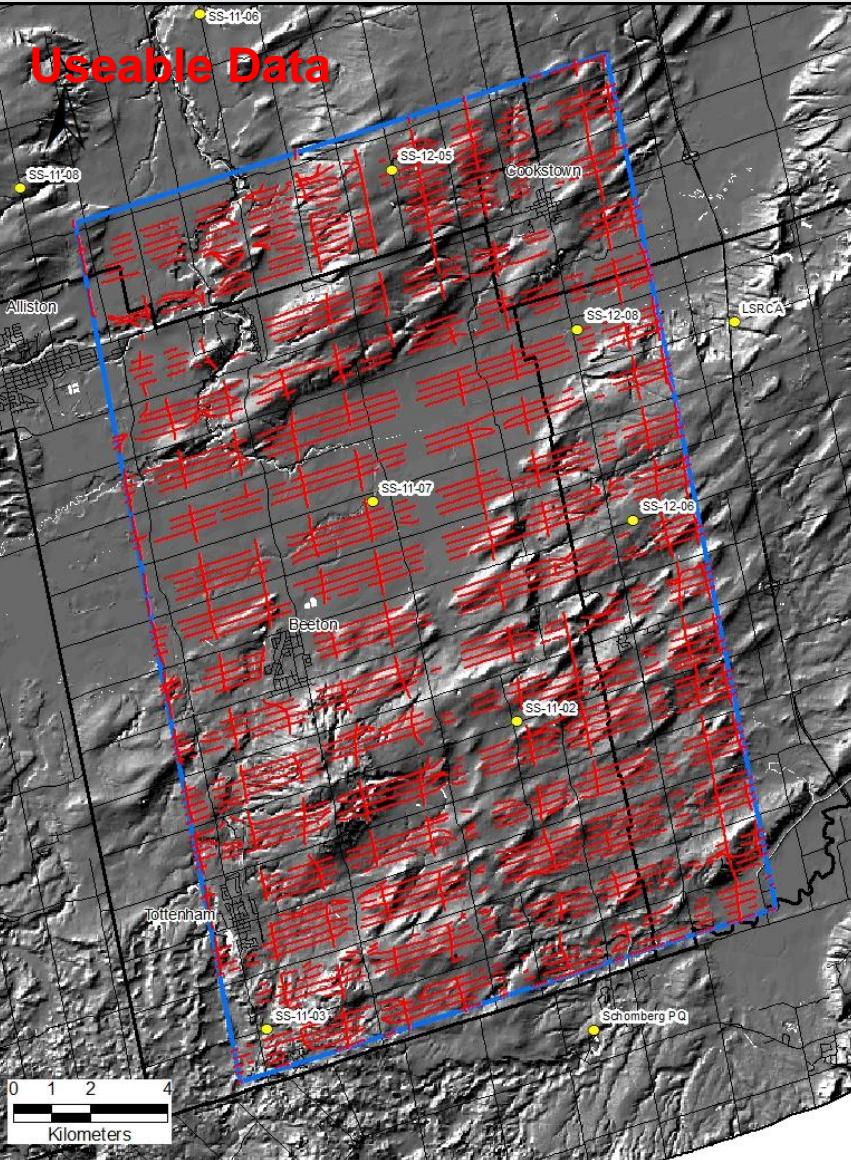
"Simcoe South Area"



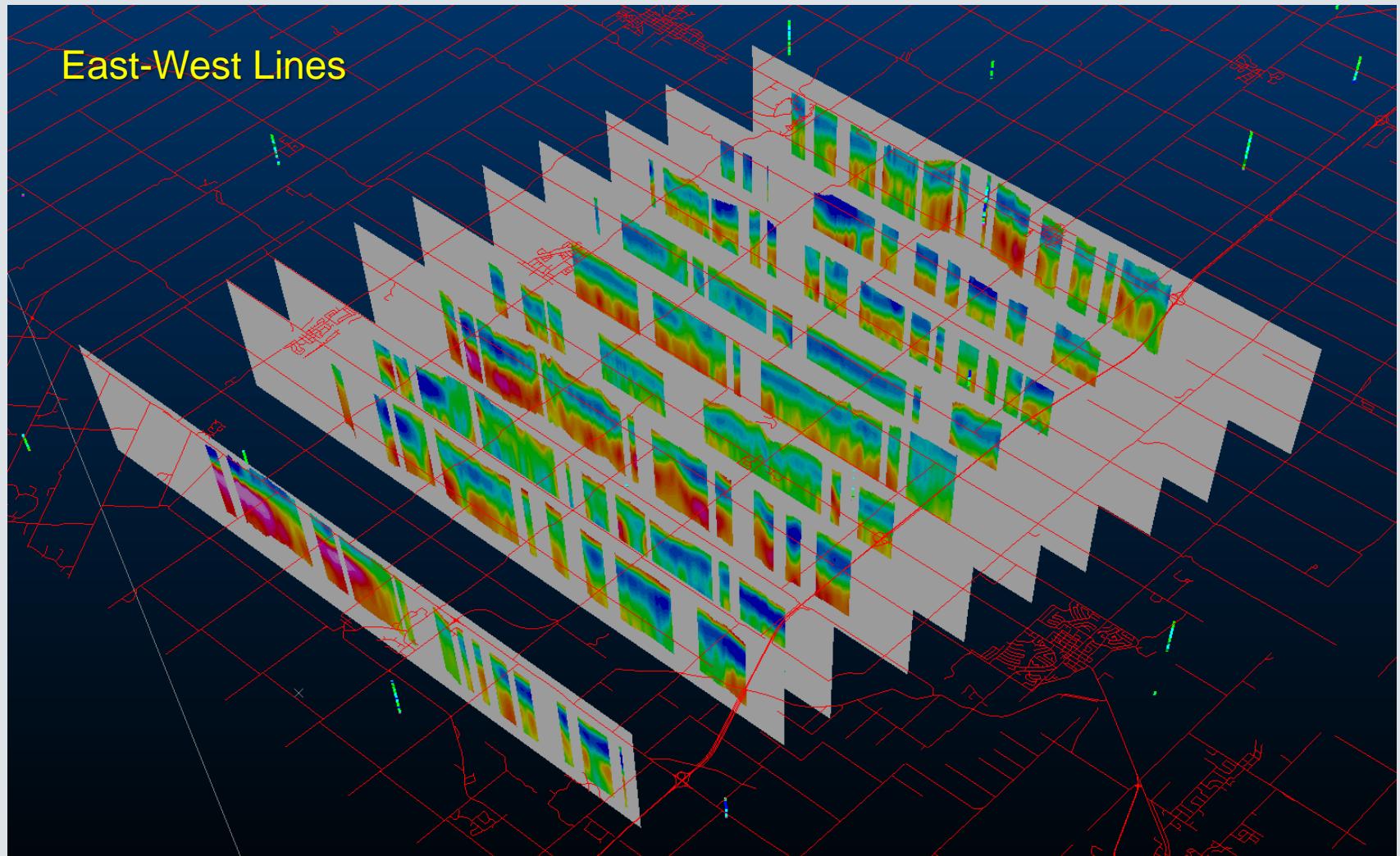
6/27/2012

Aeroquest 2012_05, AeroTEM, "Simcoe South Area"

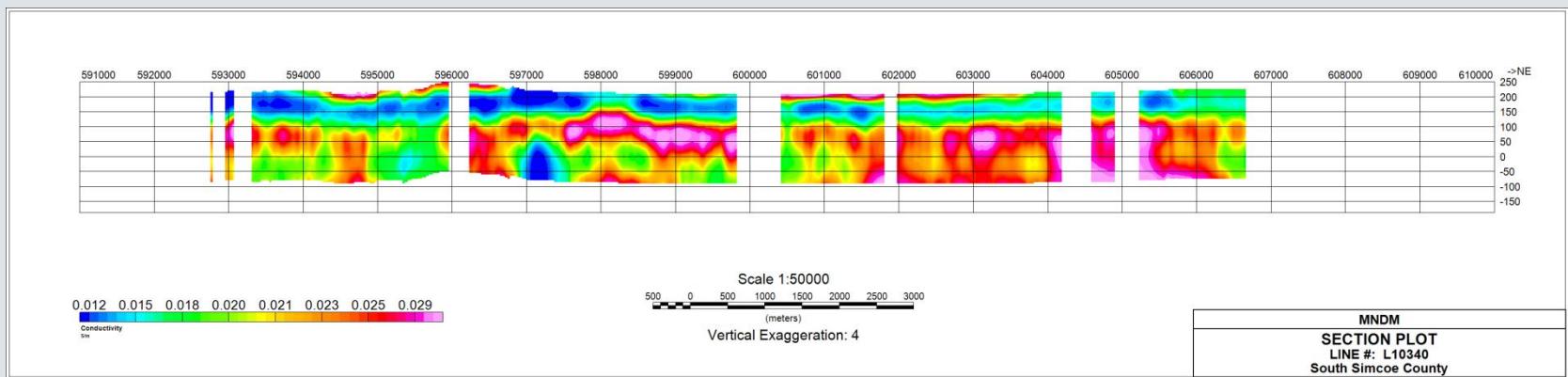
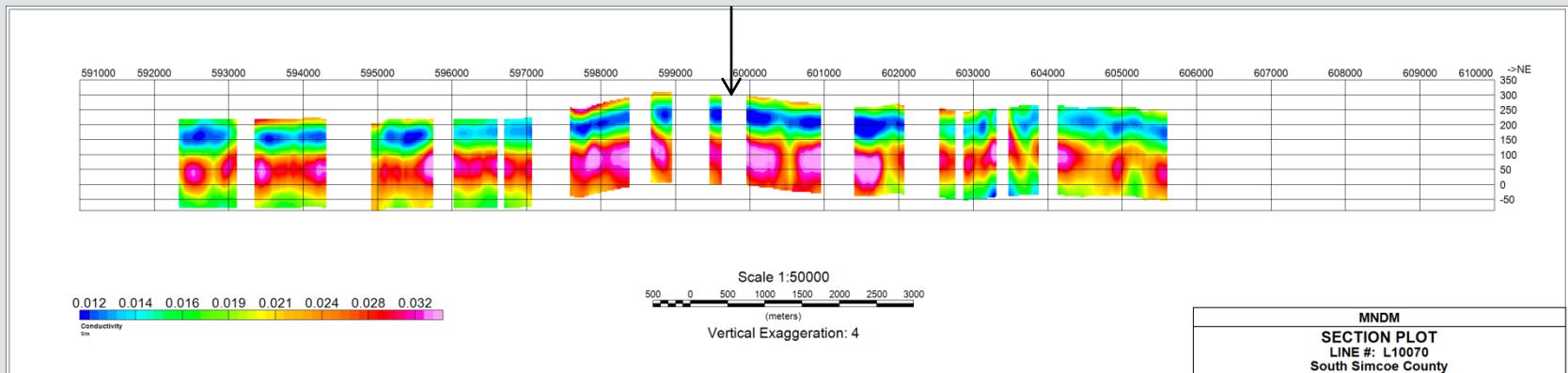
1-D Laterally constrained inversion



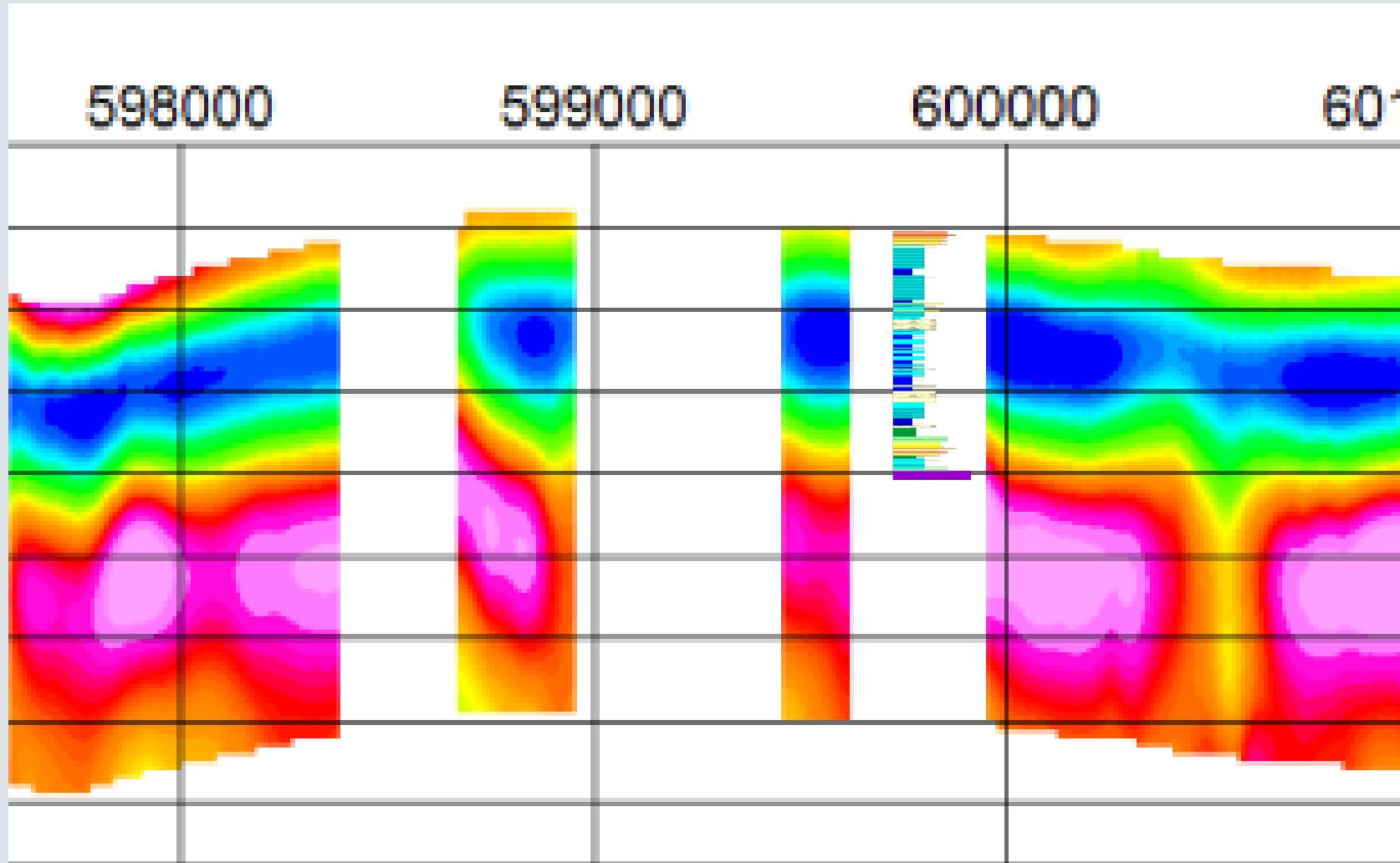
Time-Domain Electromagnetic Survey



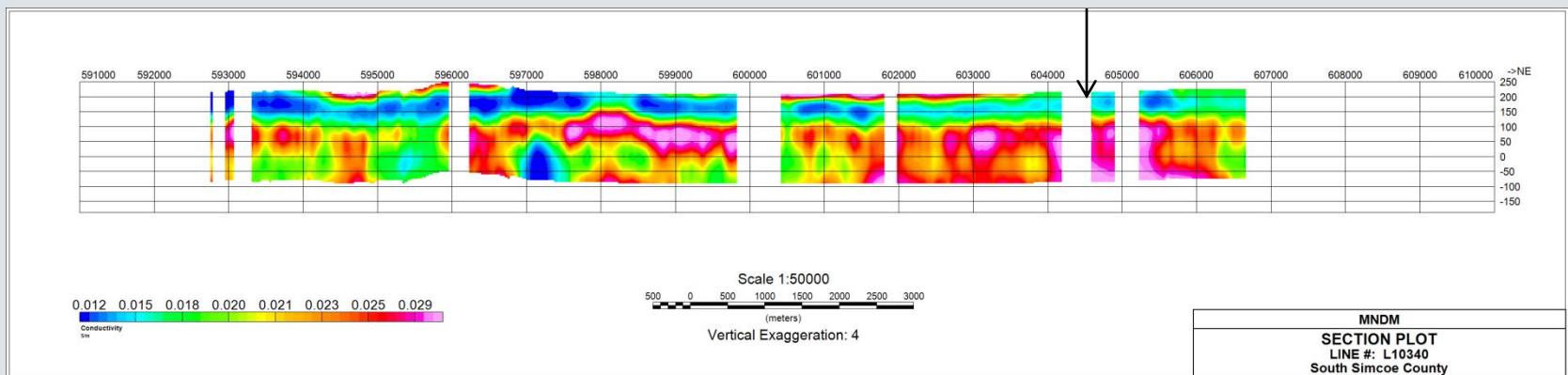
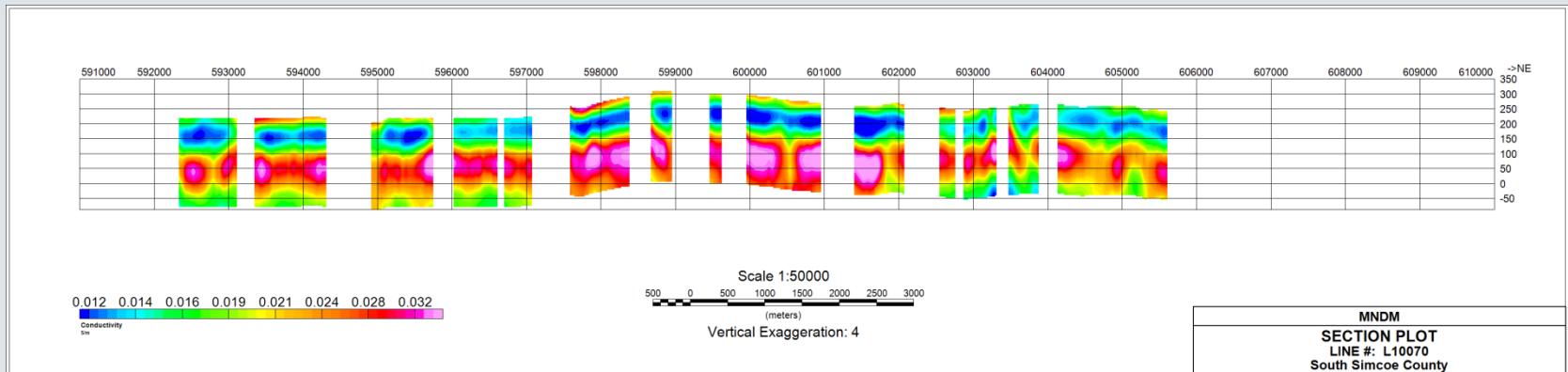
Time-Domain Electromagnetic Survey (Examples)



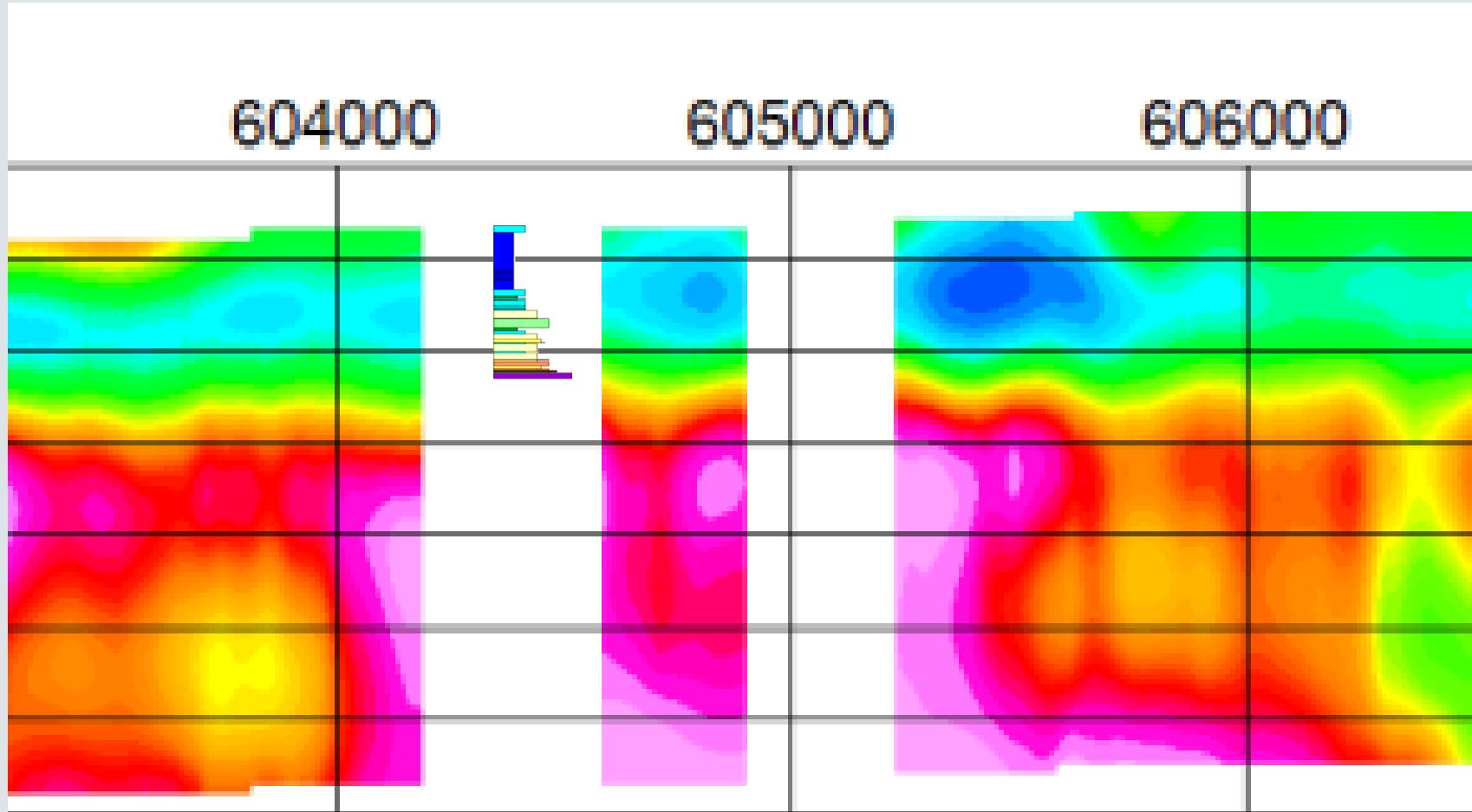
Time-Domain Electromagnetic Survey (Examples)



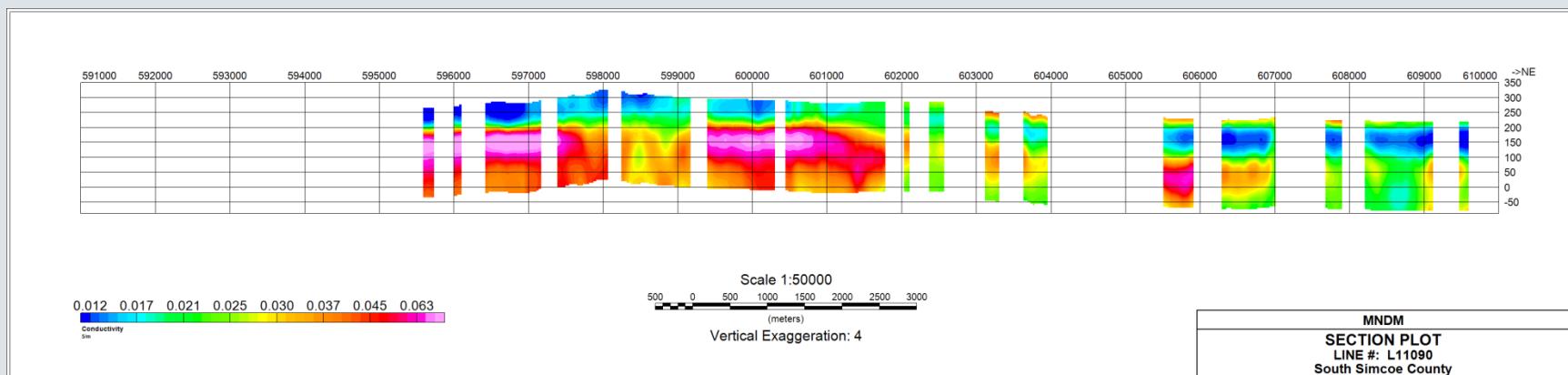
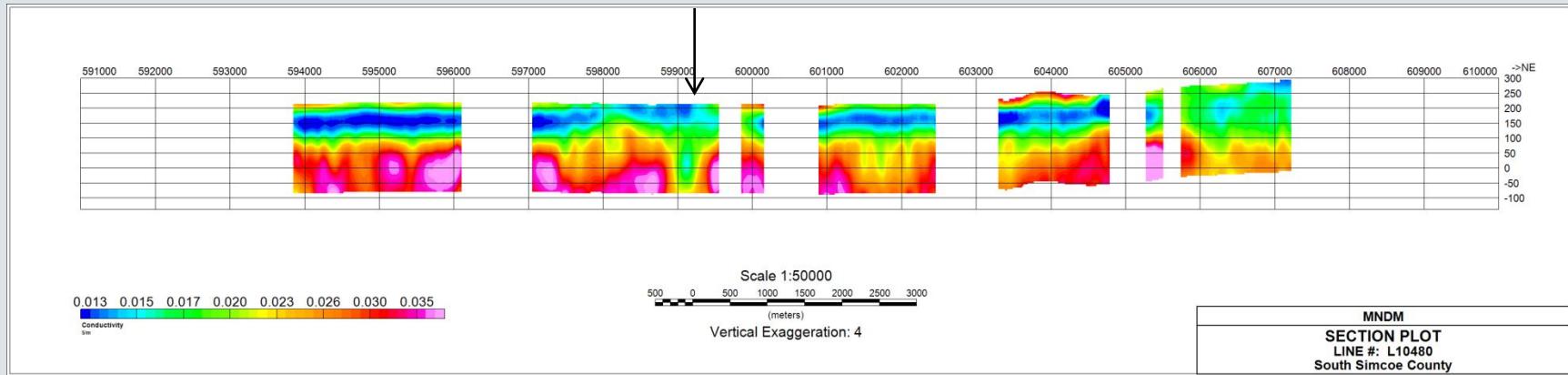
Time-Domain Electromagnetic Survey (Examples)



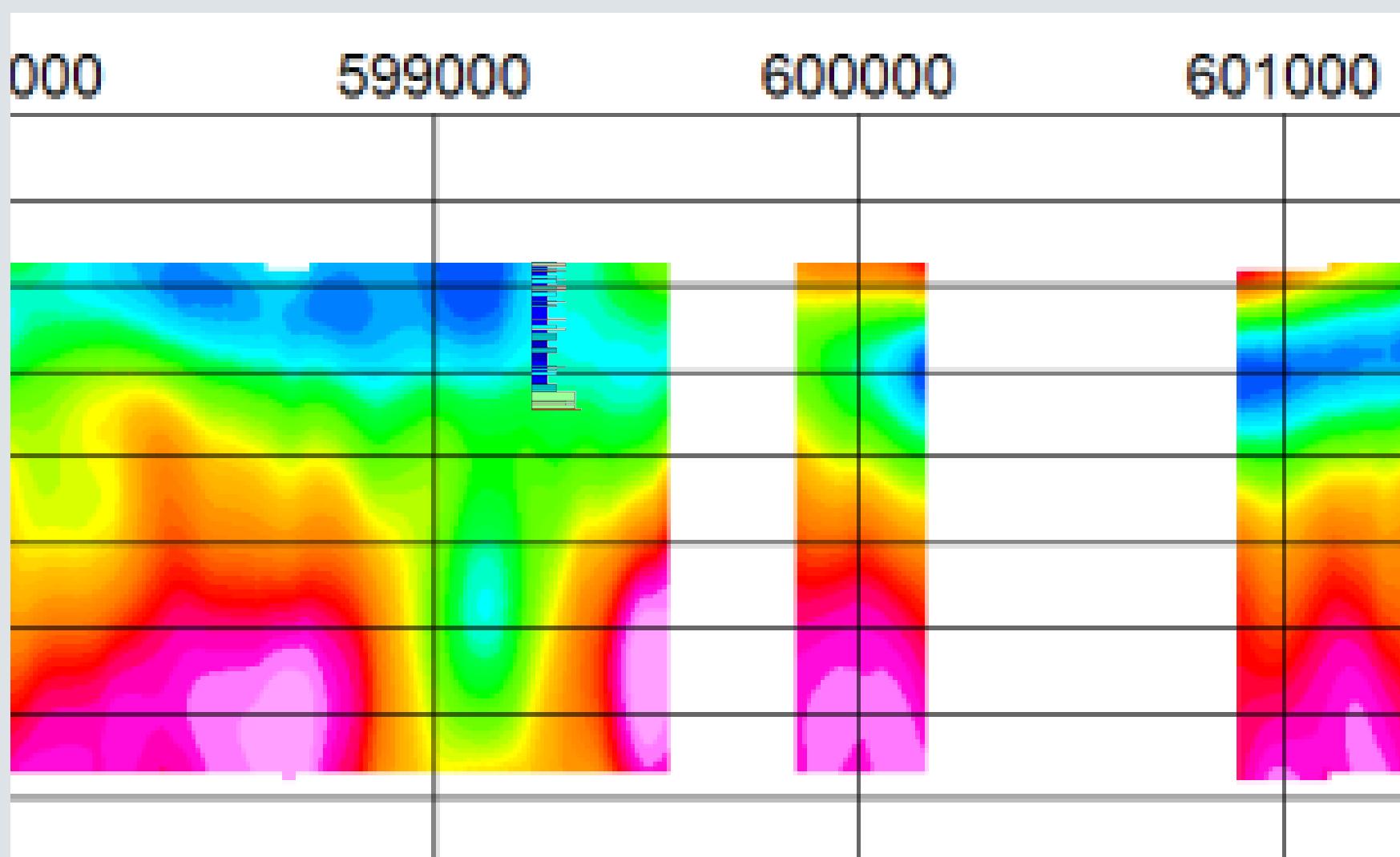
Time-Domain Electromagnetic Survey (Examples)



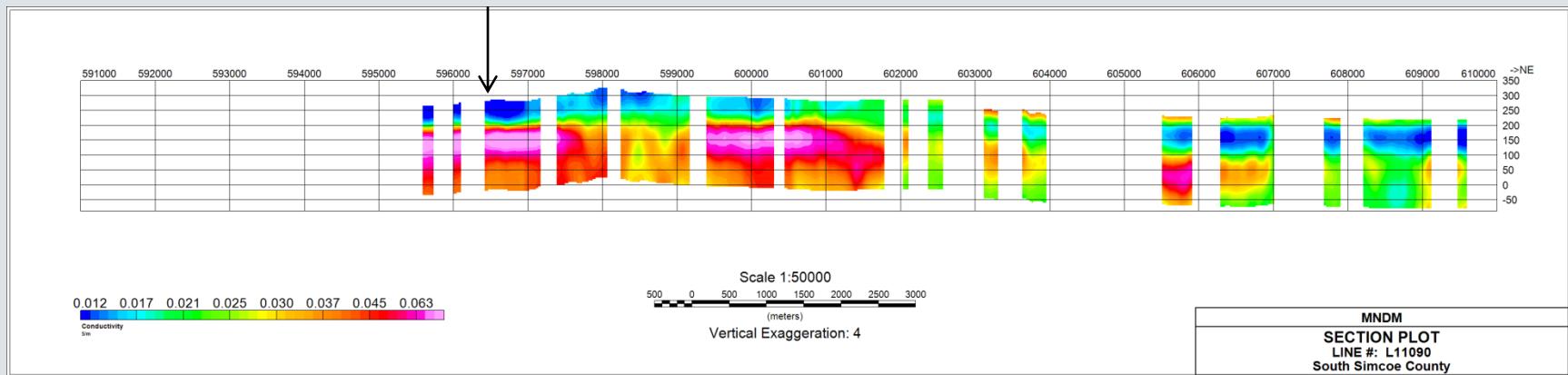
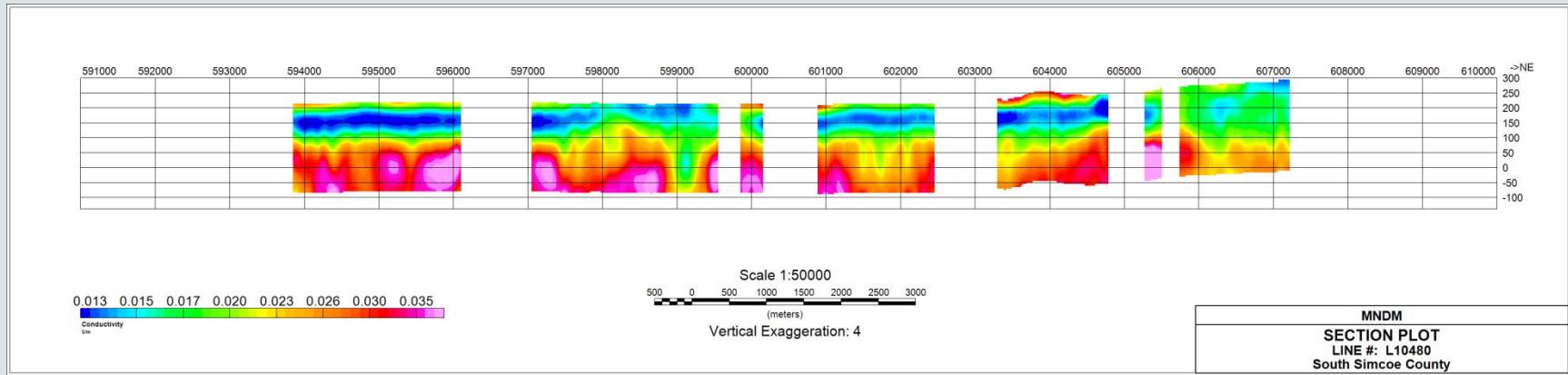
Time-Domain Electromagnetic Survey (Examples)



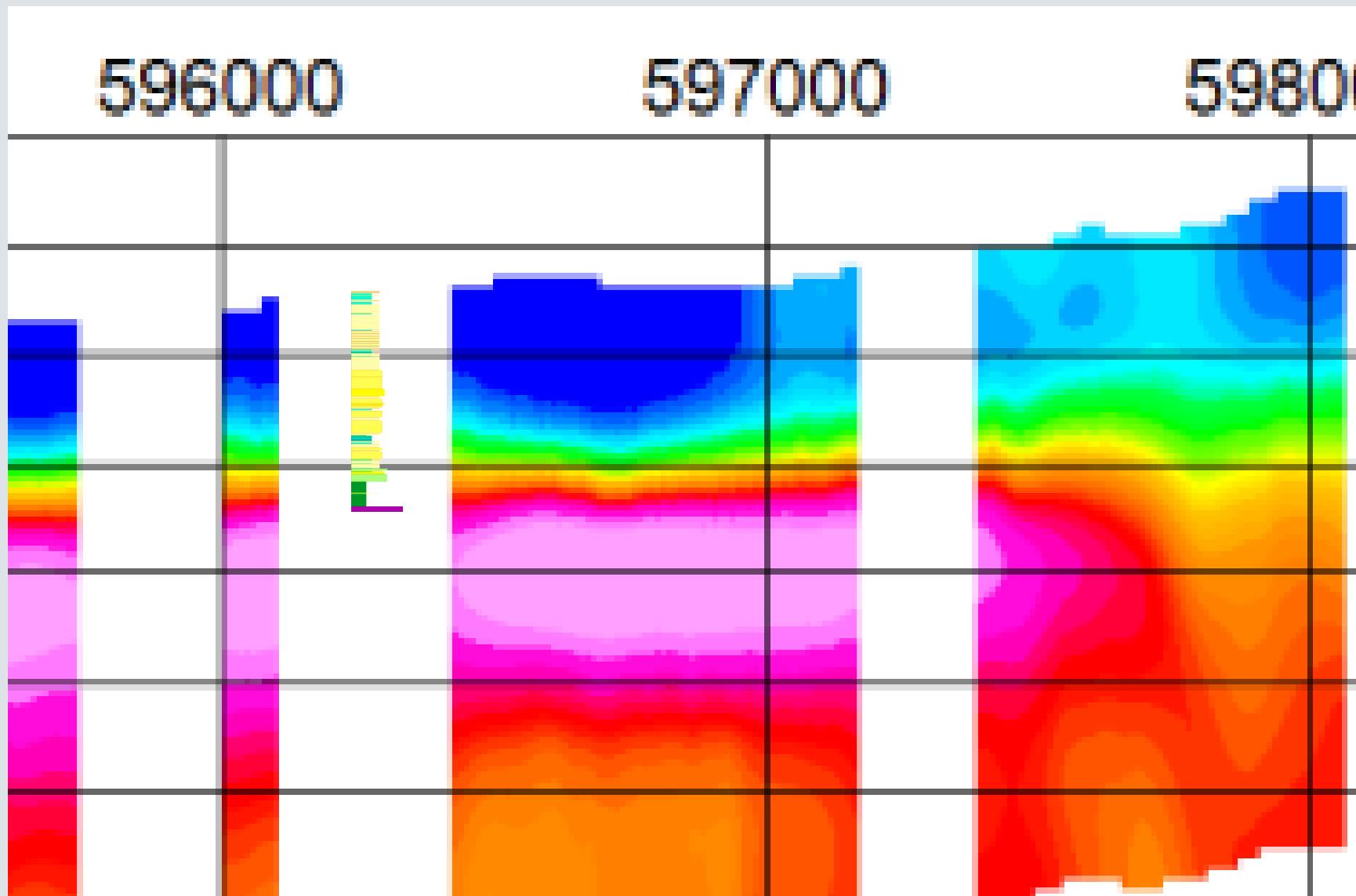
Time-Domain Electromagnetic Survey (Examples)



Time-Domain Electromagnetic Survey (Examples)



Time-Domain Electromagnetic Survey (Examples)



Next Steps

- Detailed analysis of TDEM survey results
- Establish targets for follow-up drilling (spring 2013)
- Final drill program (summer 2013)
- Construction of block model (summer/fall 2013)
- Final Report (2014)

