



CANADA-NOVA SCOTIA
OFFSHORE PETROLEUM BOARD

Exploration Opportunities Offshore Nova Scotia – CFB NS13-1

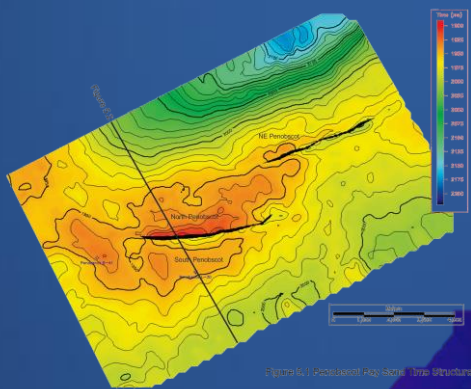
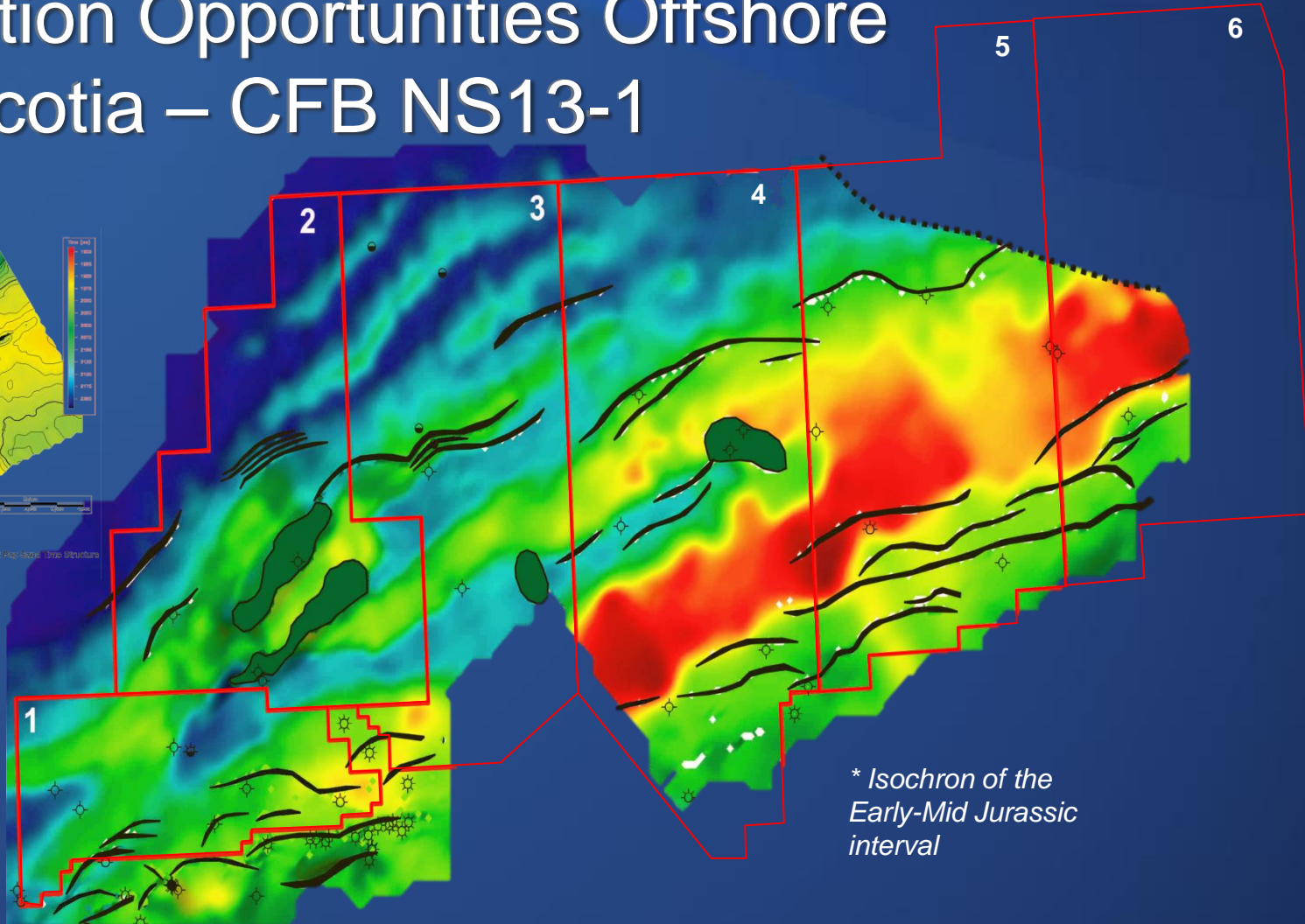
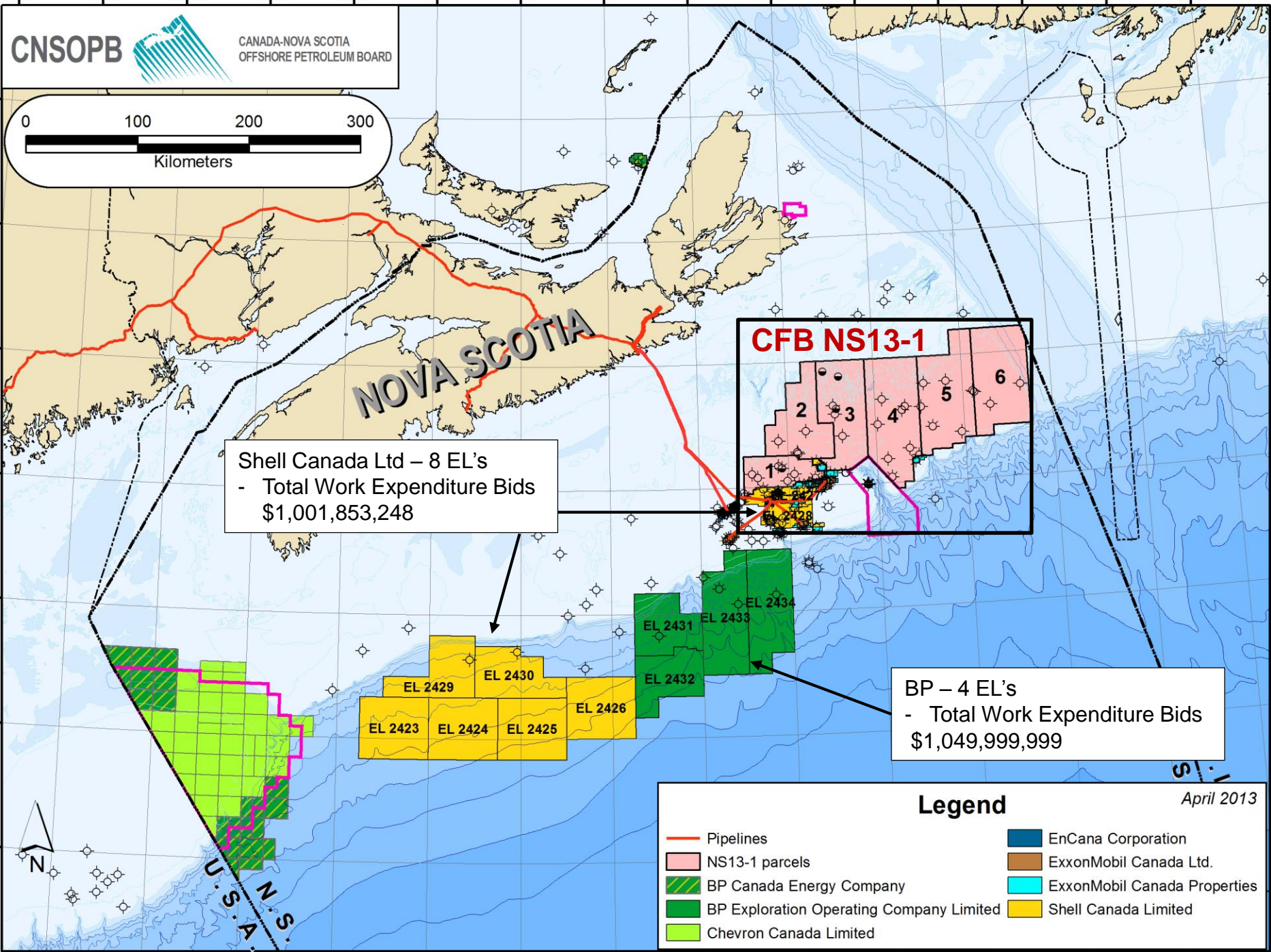
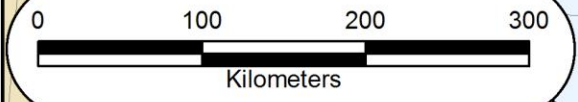
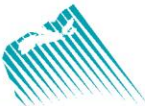


Figure 10.1: Perched Play, CFB NS13-1, Tectonic Structures

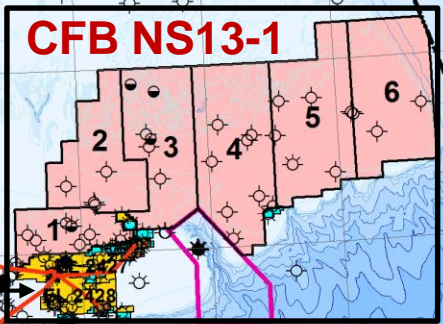


* Isochron of the
Early-Mid Jurassic
interval

Kris Kendall
AAPG ACE –
Pittsburgh 2013
IP Theatre



Shell Canada Ltd – 8 EL's
- Total Work Expenditure Bids
\$1,001,853,248



BP – 4 EL's
- Total Work Expenditure Bids
\$1,049,999,999

Legend

- Pipelines
- NS13-1 parcels
- BP Canada Energy Company
- BP Exploration Operating Company Limited
- Chevron Canada Limited
- EnCana Corporation
- ExxonMobil Canada Ltd.
- ExxonMobil Canada Properties
- Shell Canada Limited

April 2013

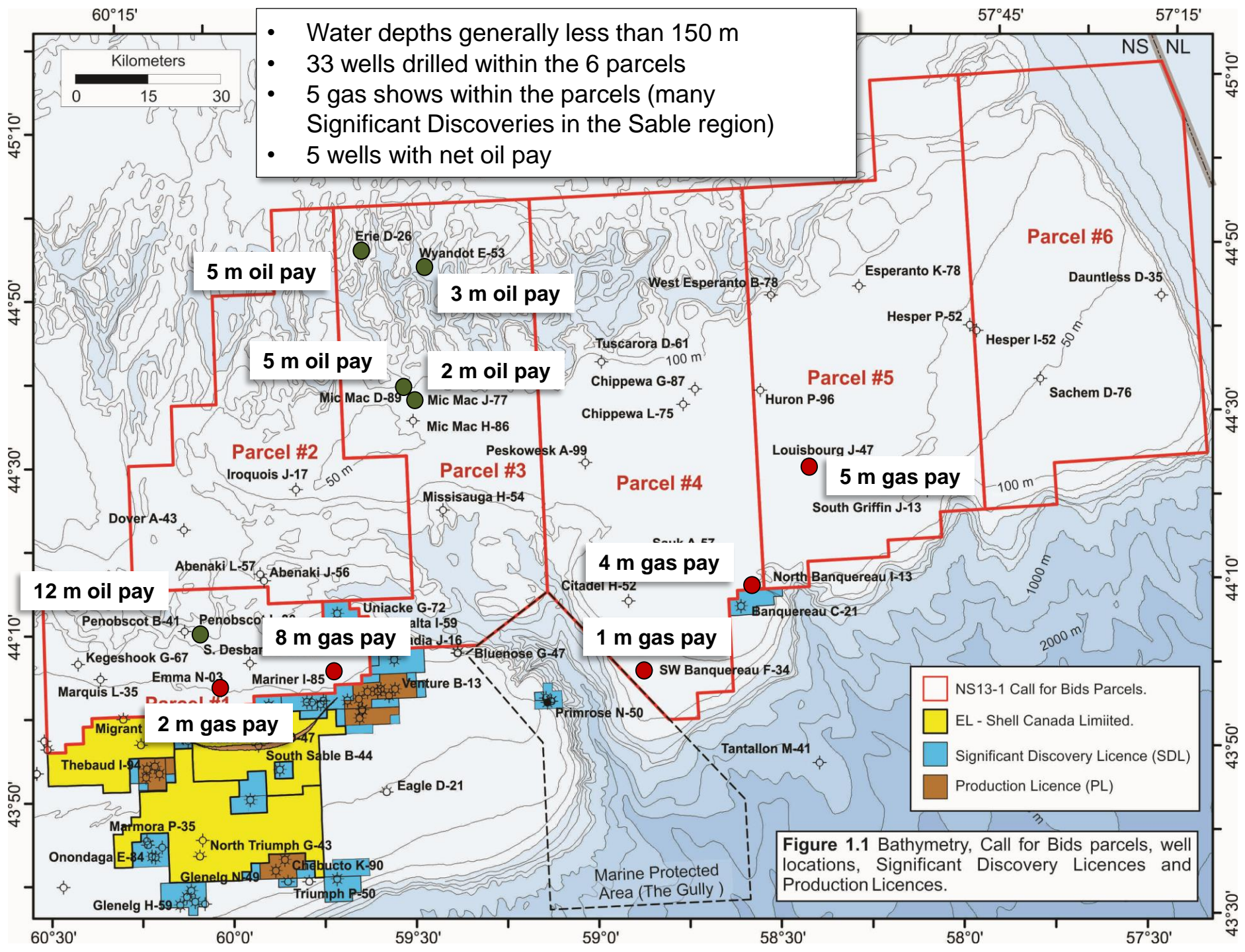
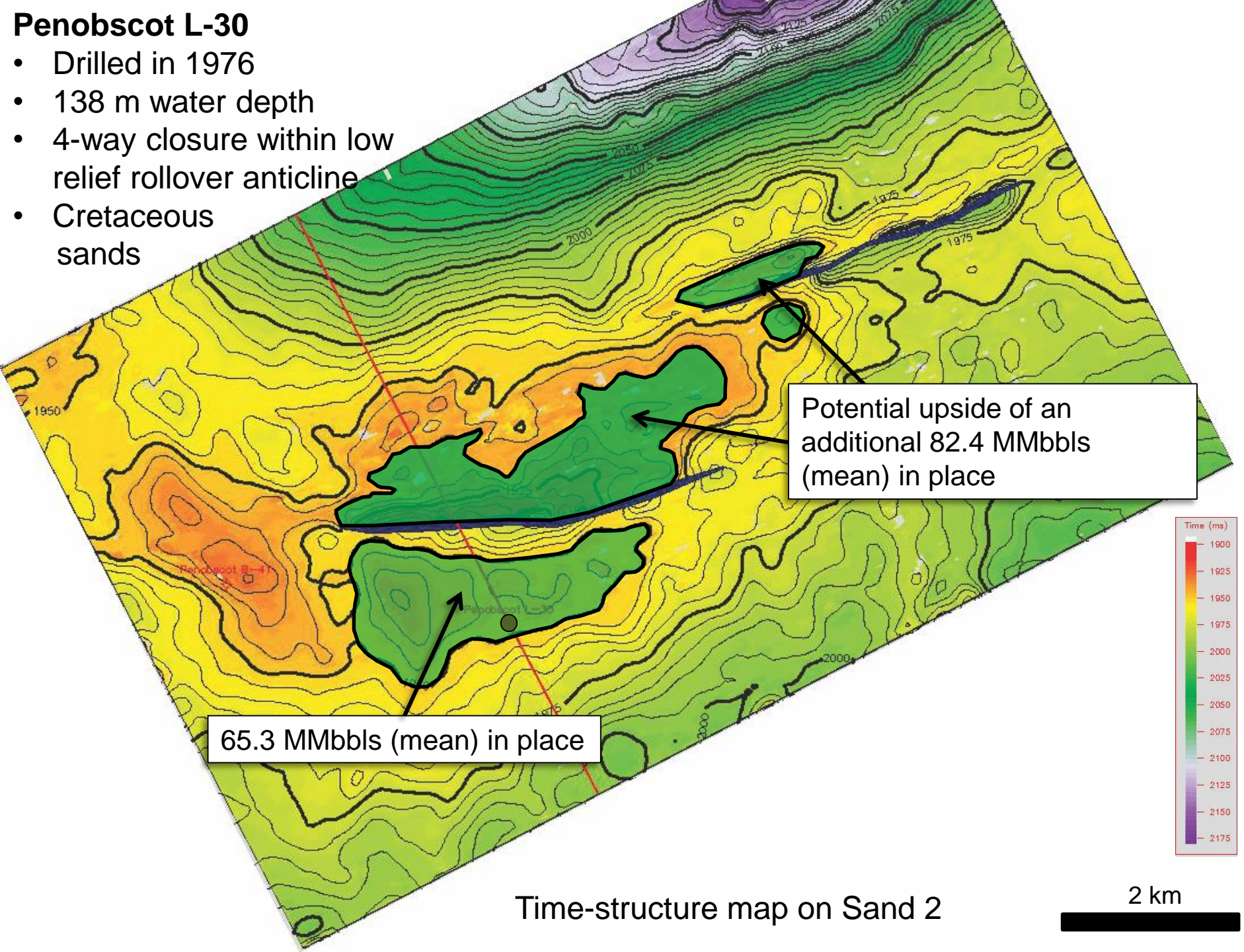


Figure 1.1 Bathymetry, Call for Bids parcels, well locations, Significant Discovery Licences and Production Licences.

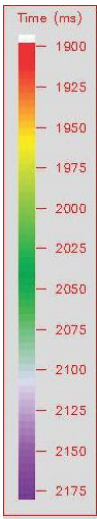
Penobscot L-30

- Drilled in 1976
- 138 m water depth
- 4-way closure within low relief rollover anticline
- Cretaceous sands



65.3 MMbbls (mean) in place

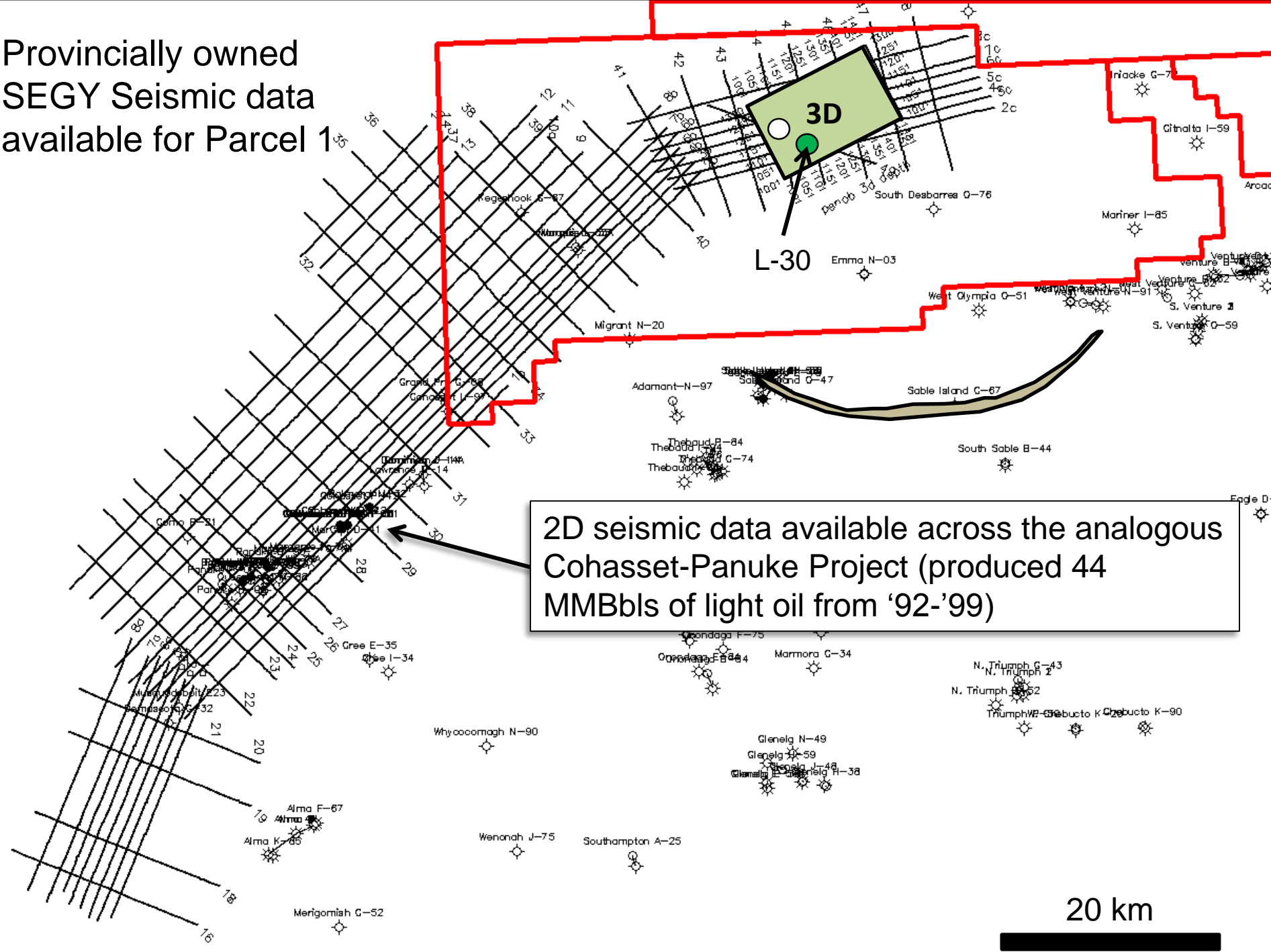
Potential upside of an additional 82.4 MMbbls (mean) in place



Time-structure map on Sand 2

2 km

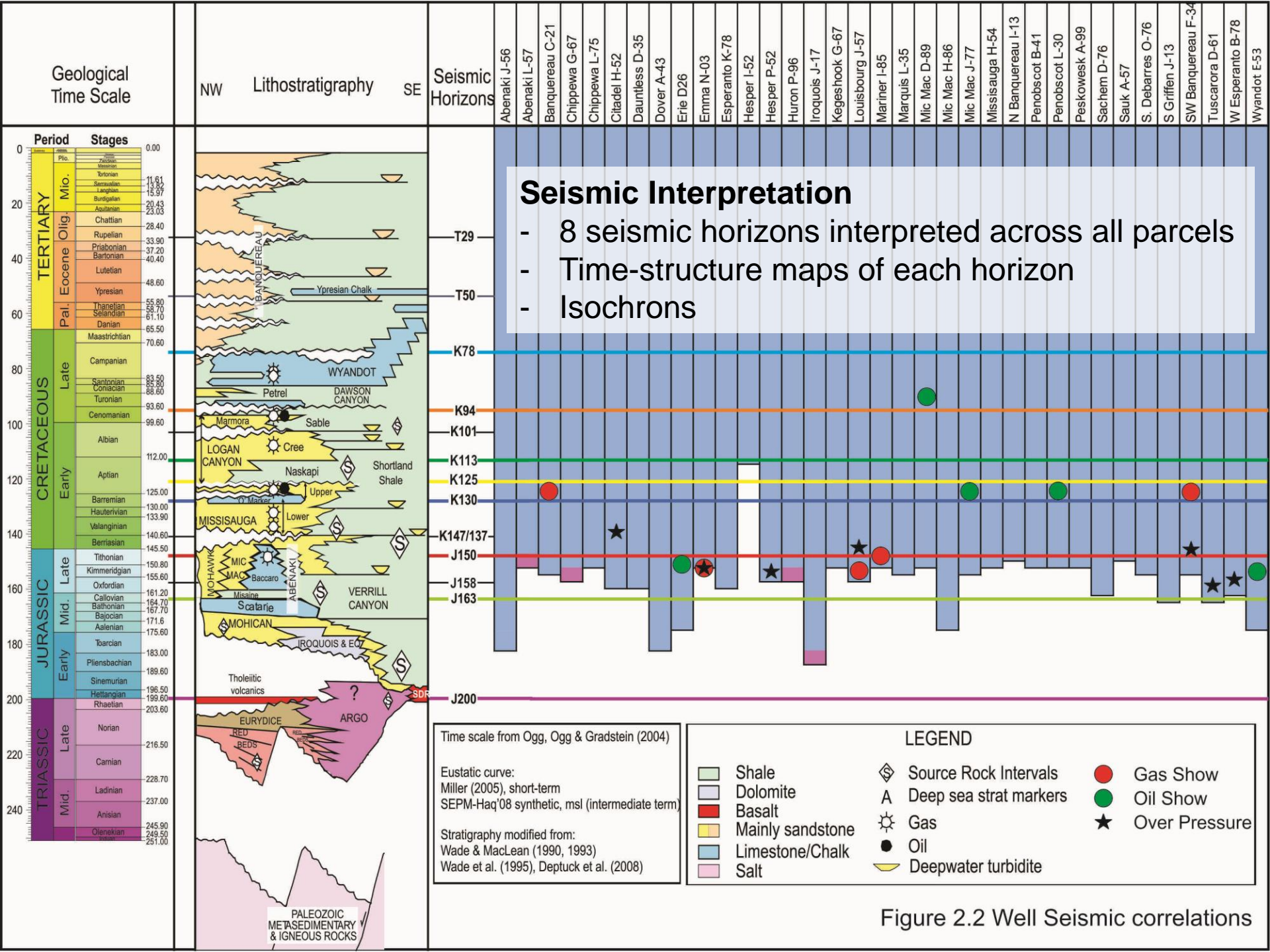
Provincially owned
 SEGY Seismic data
 available for Parcel 1



2D seismic data available across the analogous
 Cohasset-Panuke Project (produced 44
 MMBbls of light oil from '92-'99)

20 km





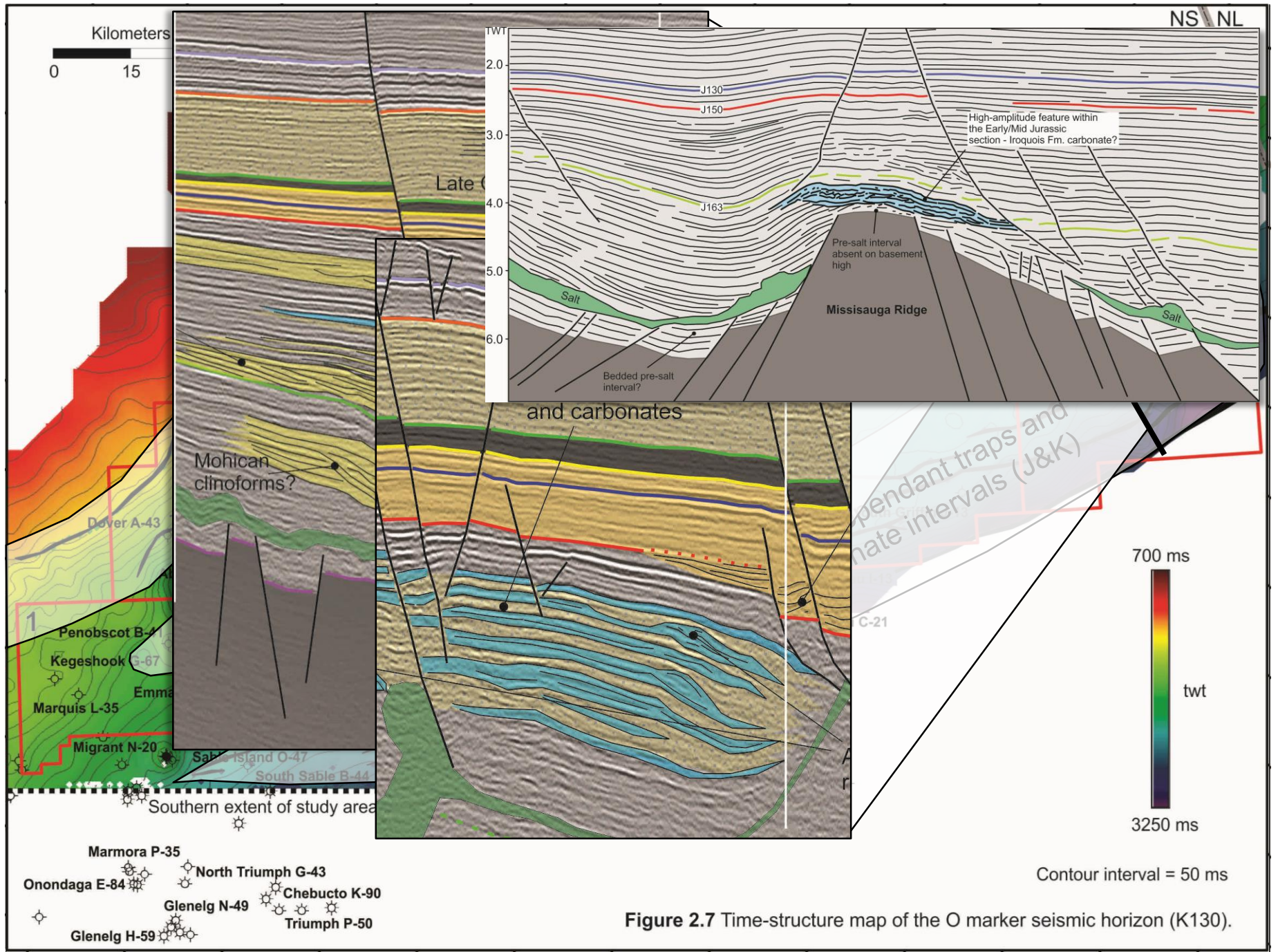


Figure 2.7 Time-structure map of the O marker seismic horizon (K130).

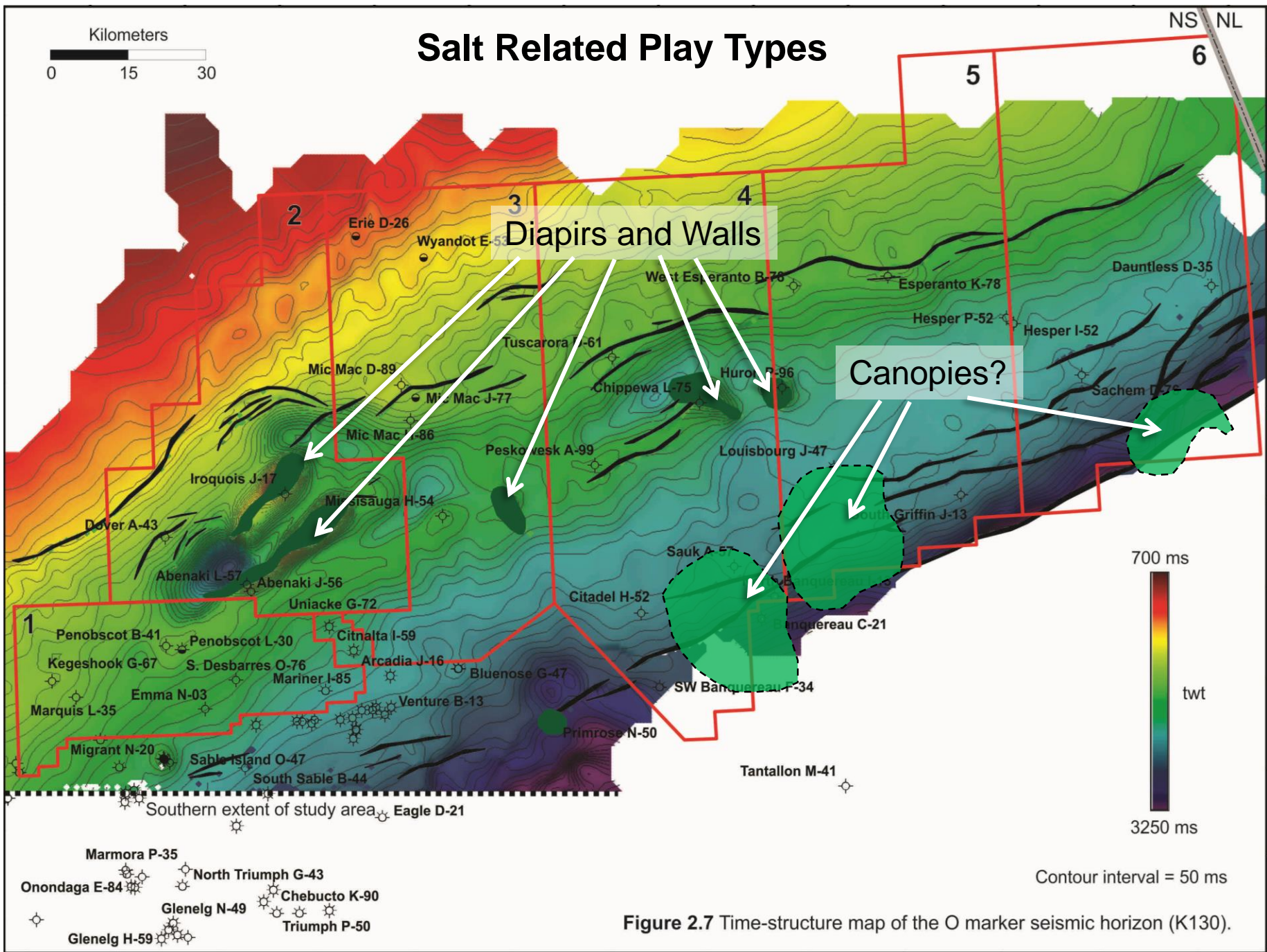
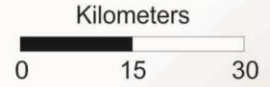


Figure 2.7 Time-structure map of the O marker seismic horizon (K130).



Pre-Salt

Erie Graben Complex

LaHave Platform

Abenaki Subbasin

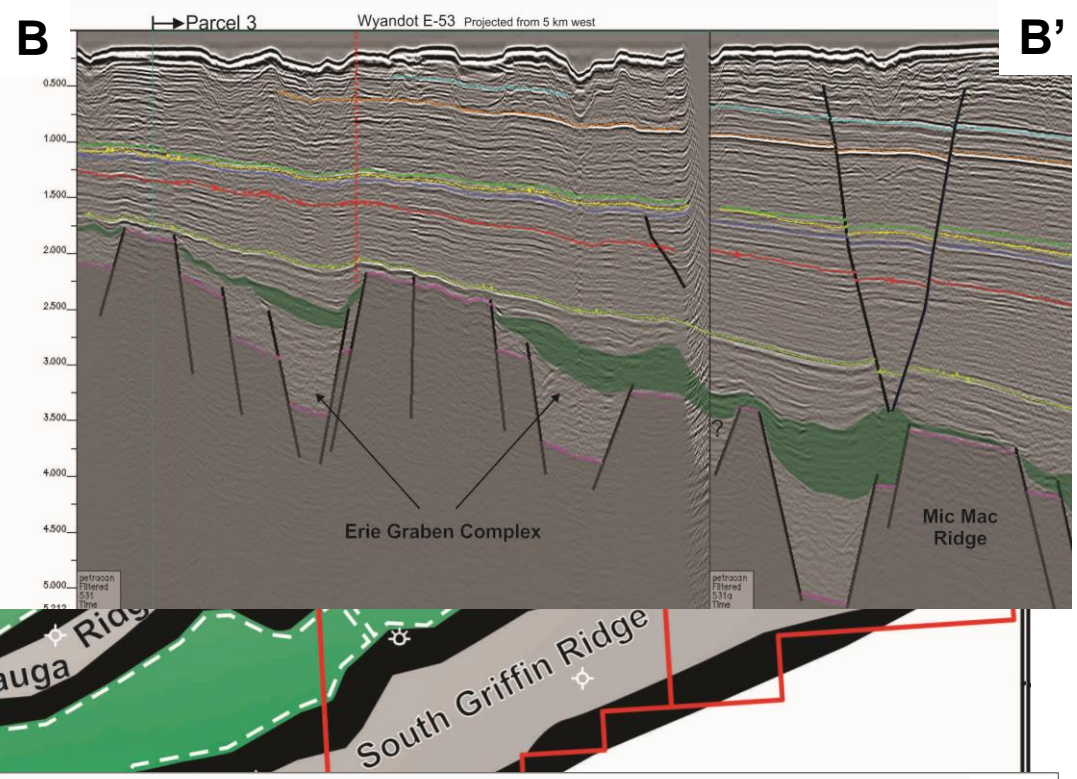
Mic Mac Ridge

Missisauga Ridge

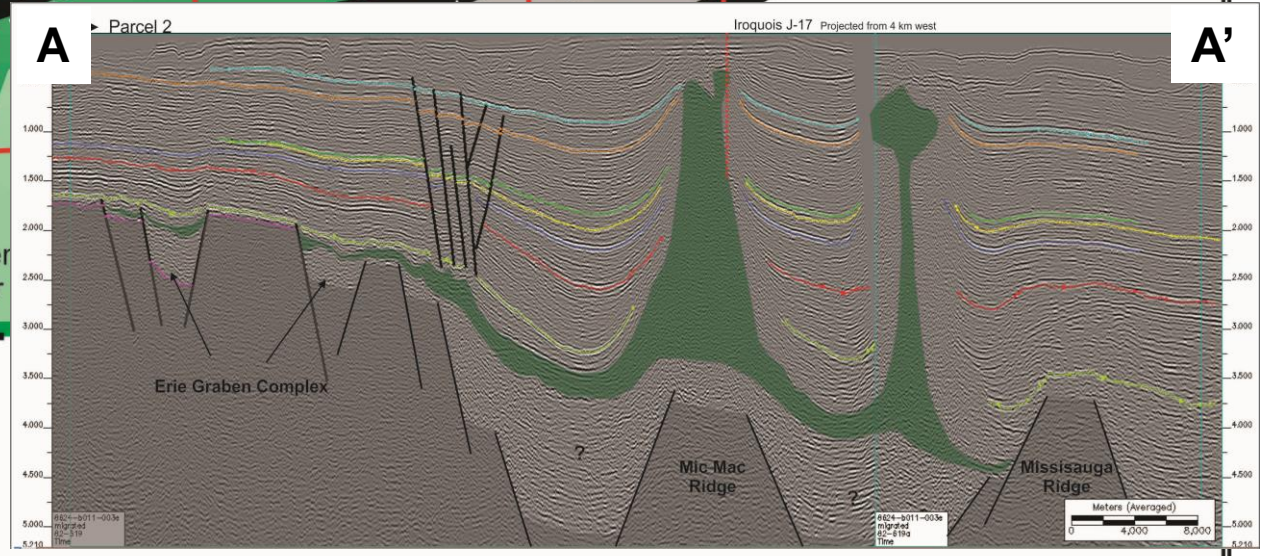
South Griffin Ridge

base for

Southern extent of study area



B'



A

A'



5 source rock intervals identified

- Late Jurassic: Tithonian carbonate to deltaic transition MFS – OIL & GAS
- Early Jurassic: Pleinsbachian to Toarcian restricted to near-normal marine – Dominantly OIL, Minor GAS
- Early Cretaceous: Intra-Aptian deltaic MFS – Dominantly GAS, Minor OIL
- Early Cretaceous: Berriasian / Valanginian deltaic MFS – Dominantly GAS
- Middle Jurassic: Callovian marine MFS– Dominantly GAS, Minor OIL

Early Jurassic oil-prone source rock

NS NL

Kilometers



LaHave Platform

Mic Mac Ridge

Missisauqua Ridge

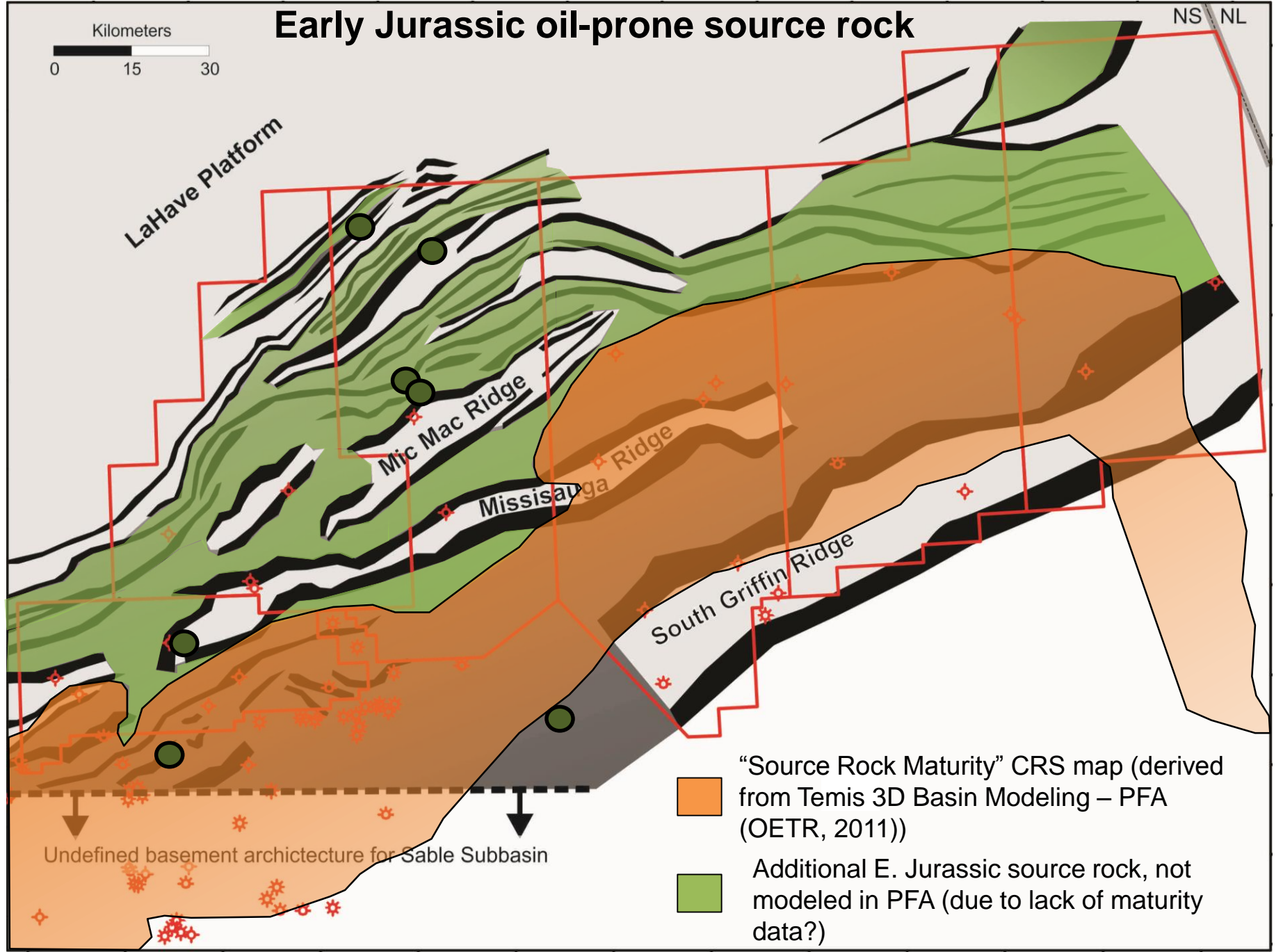
South Griffin Ridge

South Griffin Ridge

Undefined basement architecture for Sable Subbasin

“Source Rock Maturity” CRS map (derived from Temis 3D Basin Modeling – PFA (OETR, 2011))

Additional E. Jurassic source rock, not modeled in PFA (due to lack of maturity data?)





In summary...

- For further information come to booth 539
- To access data (well history reports etc.)
www.cnsopbdmc.ca
- CFB NS13-1 Technical sessions in late June (London & Houston)
- More information available at www.callforbids.ca
- Bids must be received by **4 pm (AST) October 24th, 2013**