

# Atlantic Ireland 2017

## Newfoundland and Labrador Update

Boundless Energy

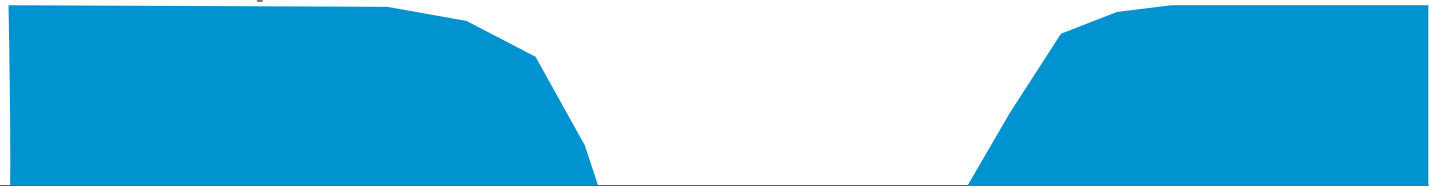


# Nalcor's Exploration Role

## Upstream Exploration/Development Cycle



## Pre-Competitive Phase



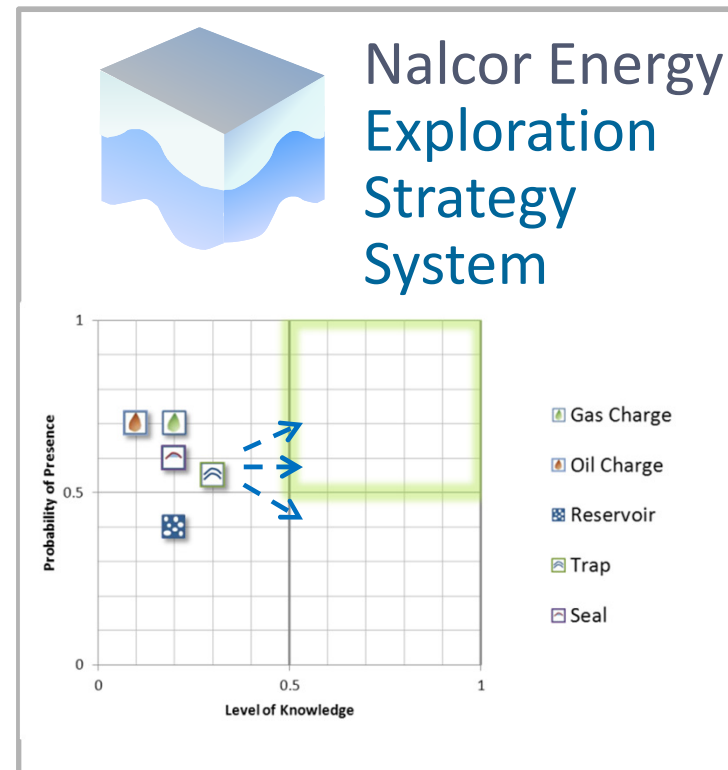
Nalcor is the State Energy Company of Newfoundland and Labrador  
1500 employees, 6 lines of business

# Evaluating NL's Frontier Basins

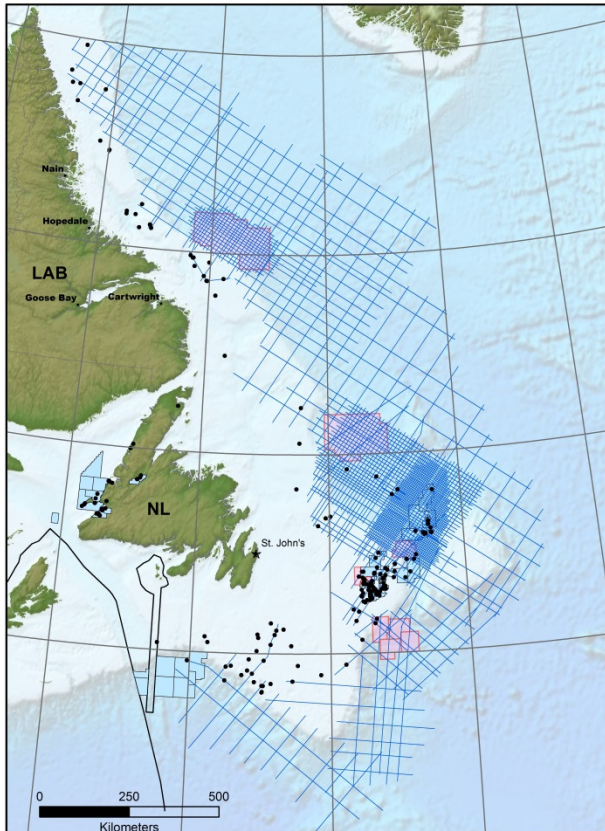
Nalcor is systematically evaluating all NL basins to:

- Find new oil/gas resource potential and evaluate prospectivity
- Identify and close key knowledge gaps that hold back new activity

[nalcorenergy.com/exploration](http://nalcorenergy.com/exploration)



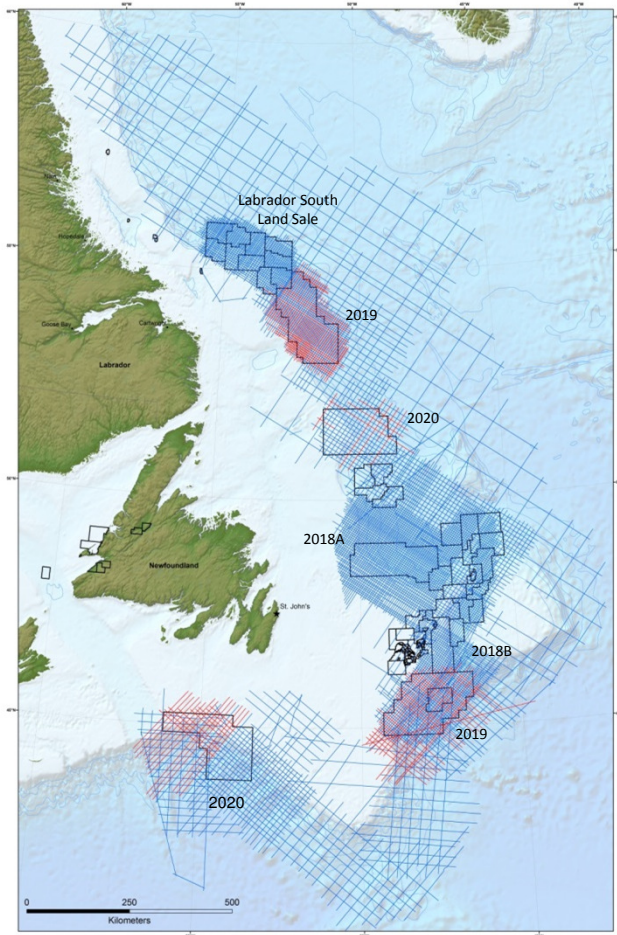
2014



## NL Seismic Data Investment

- Since 2011 Nalcor has invested in a TGS/PGS regional 2D seismic program.
- The objective is to identify and quantify the resource potential of our frontier basins.
- This image shows the seismic data coverage at the end of **2014**.

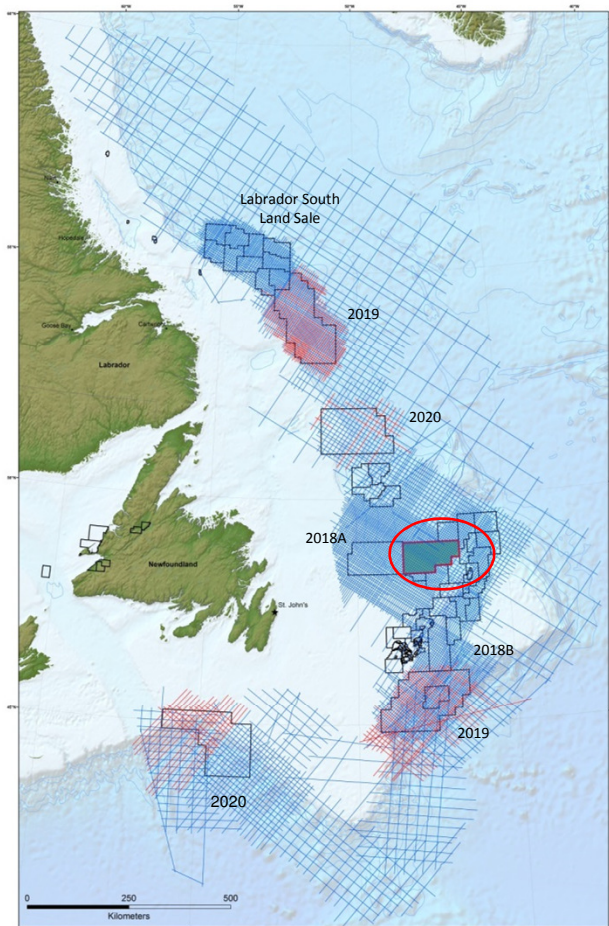
# NL Seismic Data Investment



- This image shows the seismic data coverage at the end of **2016**.
- Approximately 150,000 km of 2D seismic data had been acquired by this time.
- By the end of the 2017, this number will rise to approximately 175,000 km. (2017 planned 2D survey in **red**)

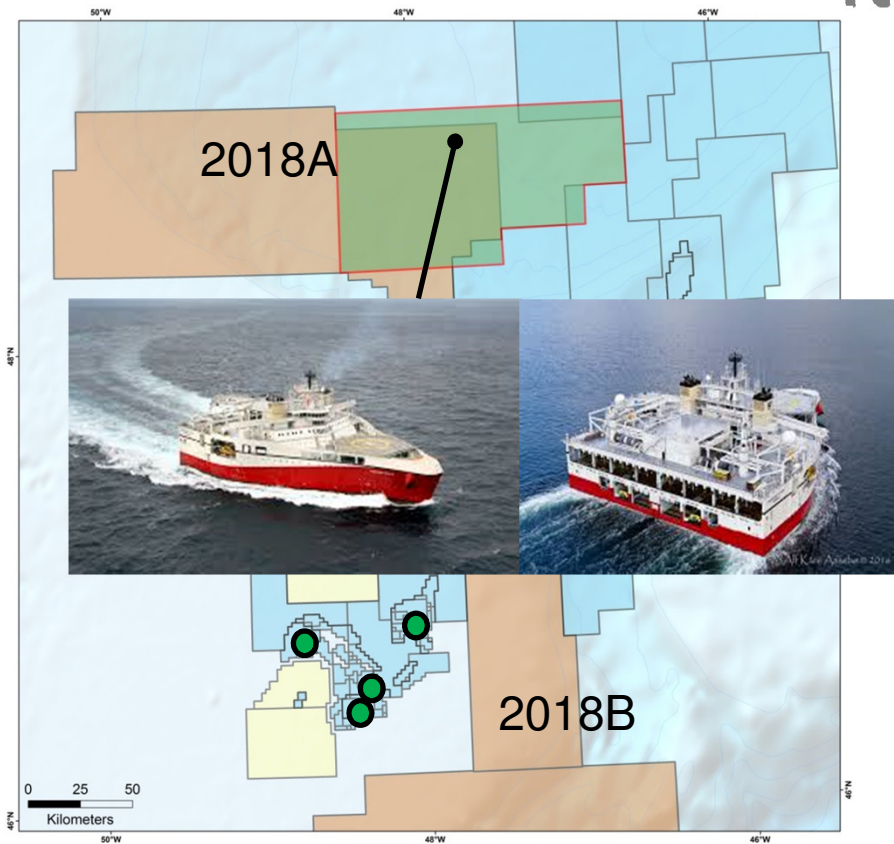


# NL Seismic Data Investment



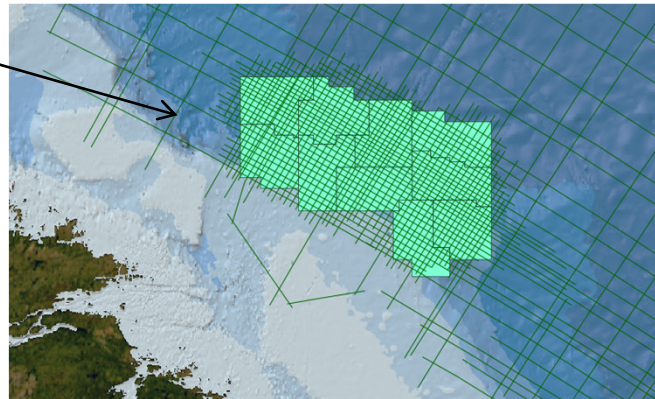
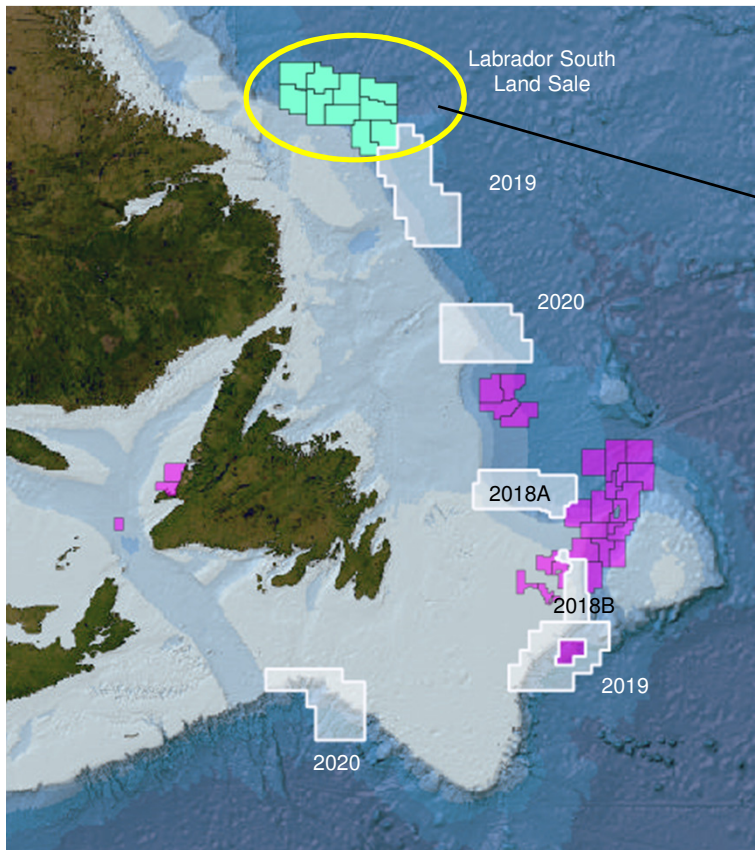
- This image shows the seismic data coverage at the end of **2016**.
- Approximately 150,000 km of 2D seismic data had been acquired by this time.
- By the end of the 2017, this number will rise to approximately 175,000 km. (2017 planned 2D survey in **red**)
- A 3D survey was acquired on the 2018A block.

# NL Seismic Data Investment



- Broadband Geostreamer survey totalling 9840 sq km.
- Titan Class vessel towing 16 cables
- Fast Track data Dec 1, 2017
- Final cube March 31, 2018

# Presently Scheduled Upcoming Licence Rounds



- 2D Broadband acquisition from 2011 -2016 produced a 5x5 km grid
- This data was reprocessed to PSDM
- Significant improvement was seen on both the PSTM and PSDM sections

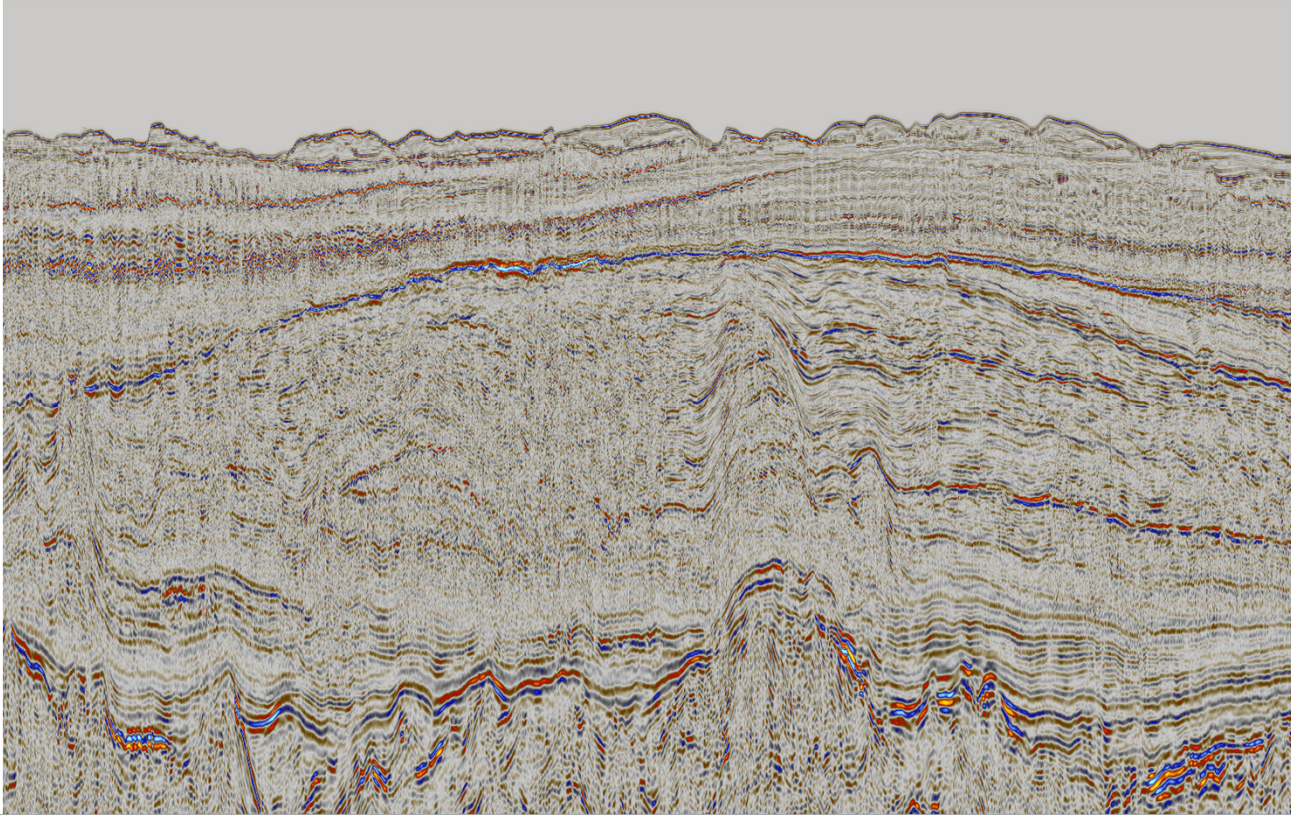


# Labrador South Land Sale Area

Map Deleted

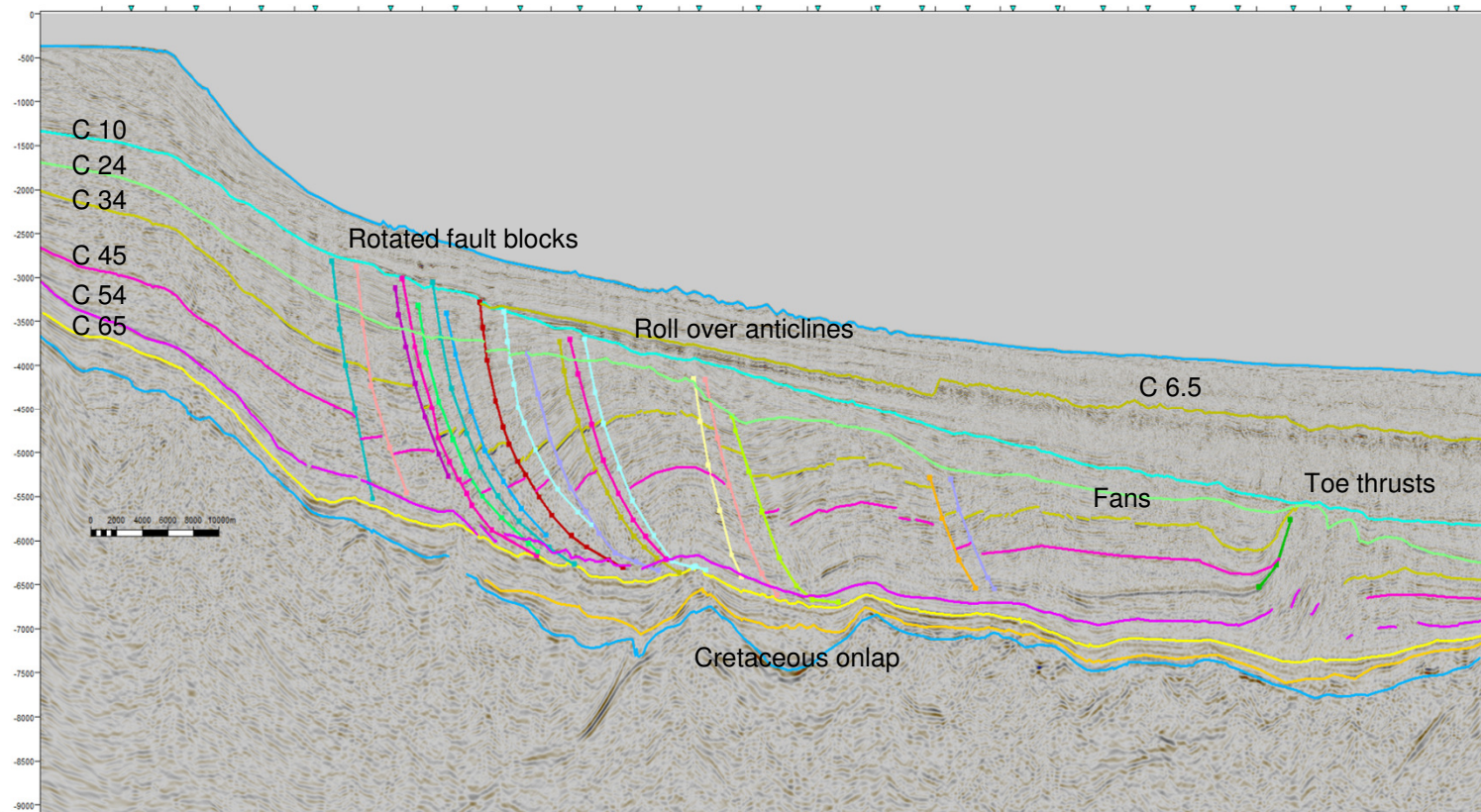
Tertiary Isochron Map  
showing the thick wedge of  
the Churchill River Delta

# Labrador South Land Sale Area



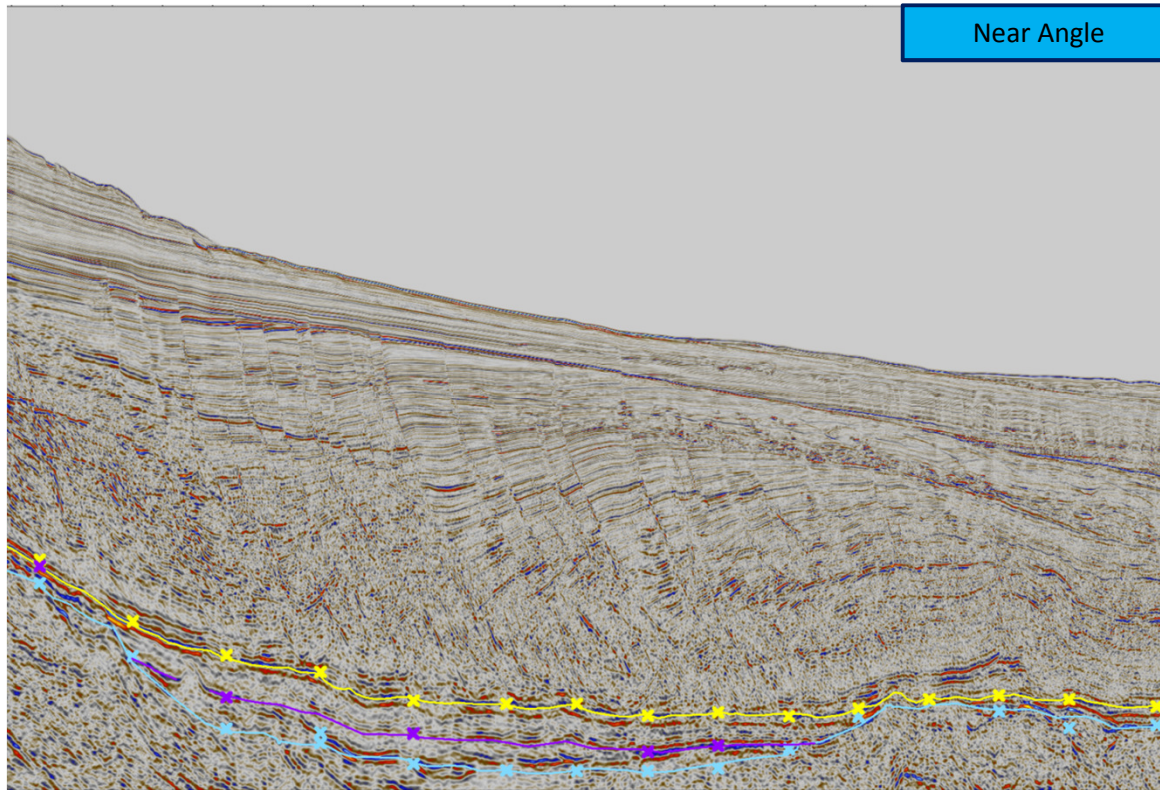
Strike Line across  
the Tertiary Delta

# Labrador South Land Sale Area



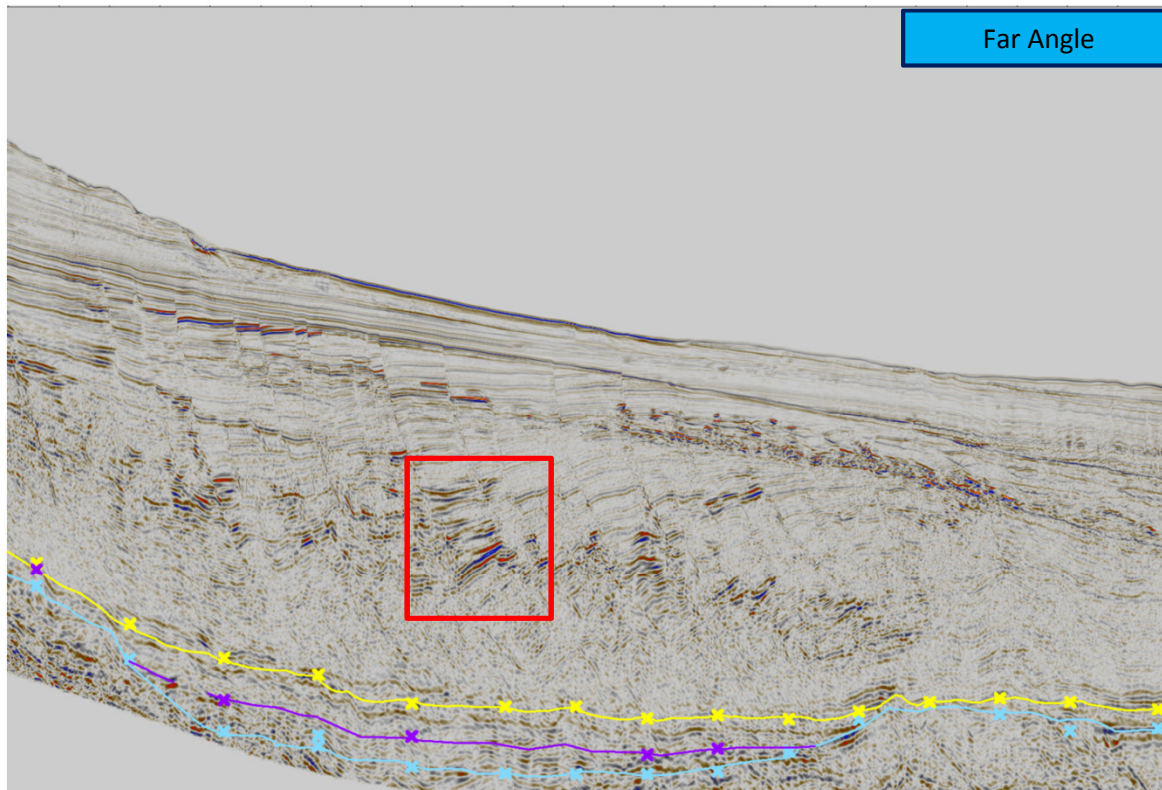


# Labrador South Land Sale Area

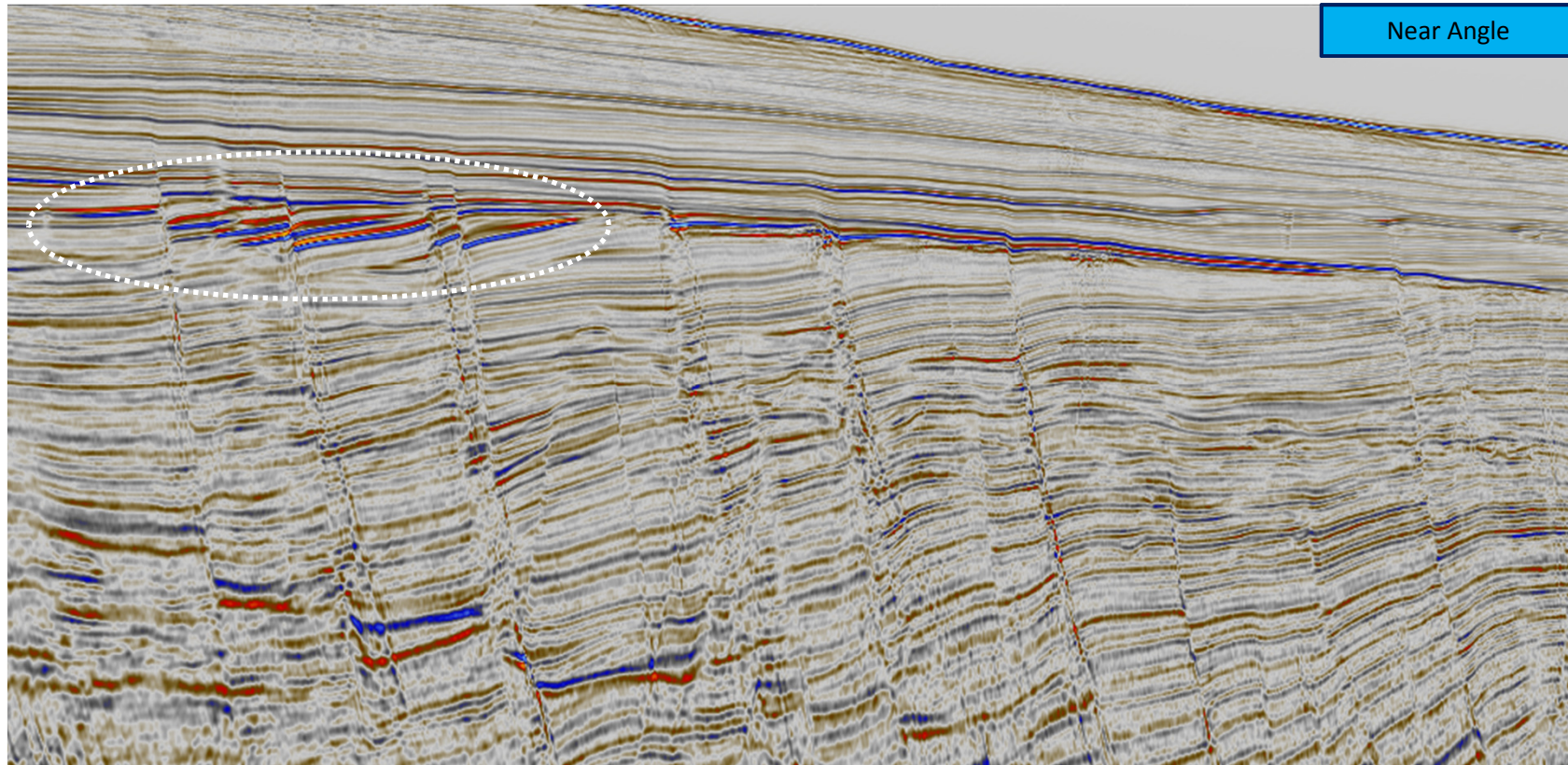




# Labrador South Land Sale Area

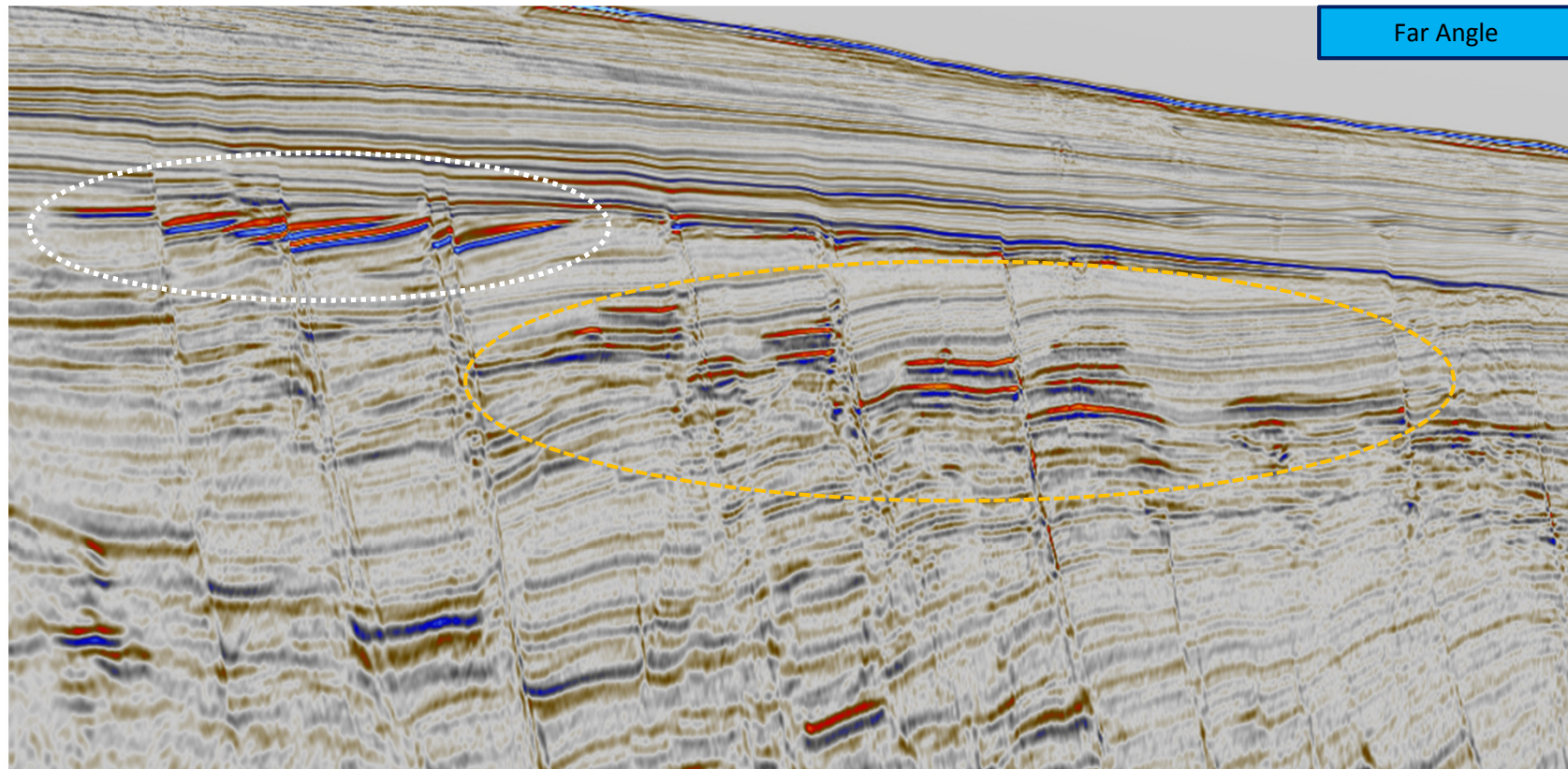


# Labrador South Land Sale Area





# Labrador South Land Sale Area



Seismic section removed  
for slides 16 -28



# Nalcor Exploration – Ongoing Studies

[nalcorenergy.com/exploration](http://nalcorenergy.com/exploration)

Initiative	Completion
Regional Pore Pressure	Completed
Biostratigraphic Analysis	Completed
Regional Rock Physics	Completed
Met Ocean	Completed
Drilling Study	Completed
Resource Assessment	Year over Year



**RILEY GEOSCIENCE LTD.**



# Thank you



[nalcorenergy.com/exploration](http://nalcorenergy.com/exploration)  
[ianatkinson@nalcorenergy.com](mailto:ianatkinson@nalcorenergy.com)