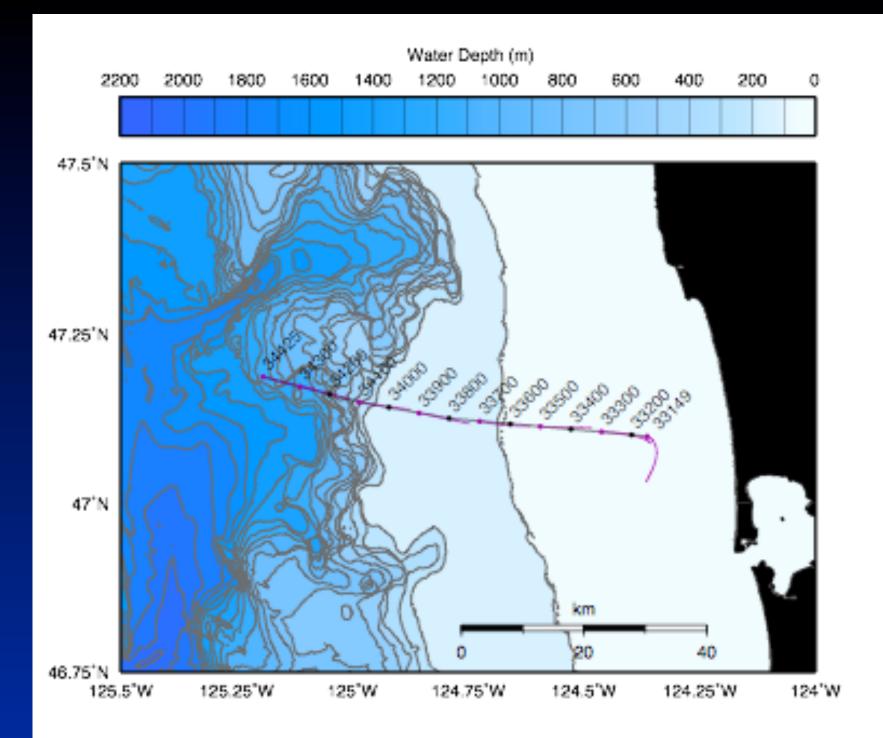
Using the R/V Langseth Streamer System to Determine In-situ Airgun Power Levels

Timothy Crone, Maya Tolstoy, Helene Carton Lamont-Doherty Earth Observatory MLSOC Meeting 14 December 2014

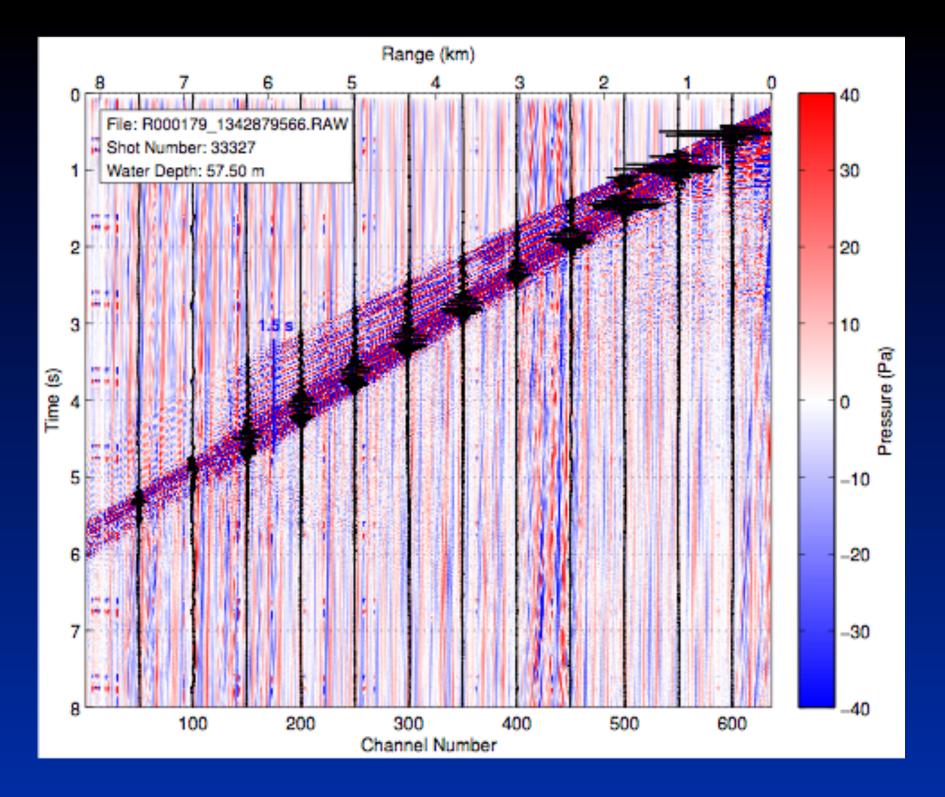
Outline

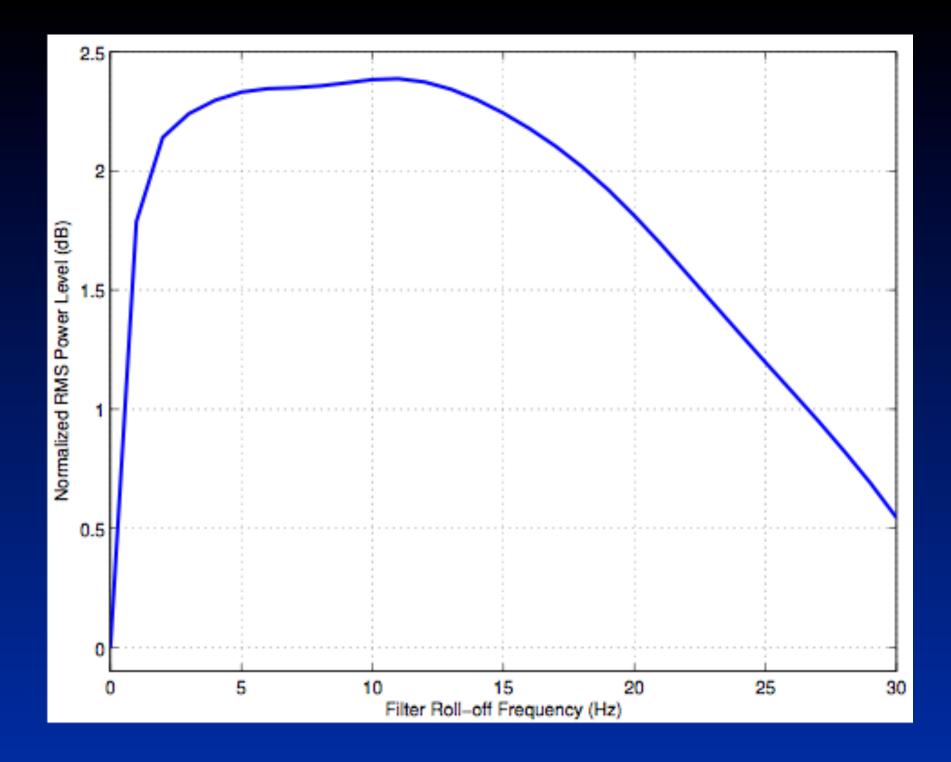
- COAST transect proof of concept
- Streamer data preparation
- *RMS values along transect*
- Safety radii
- Future directions

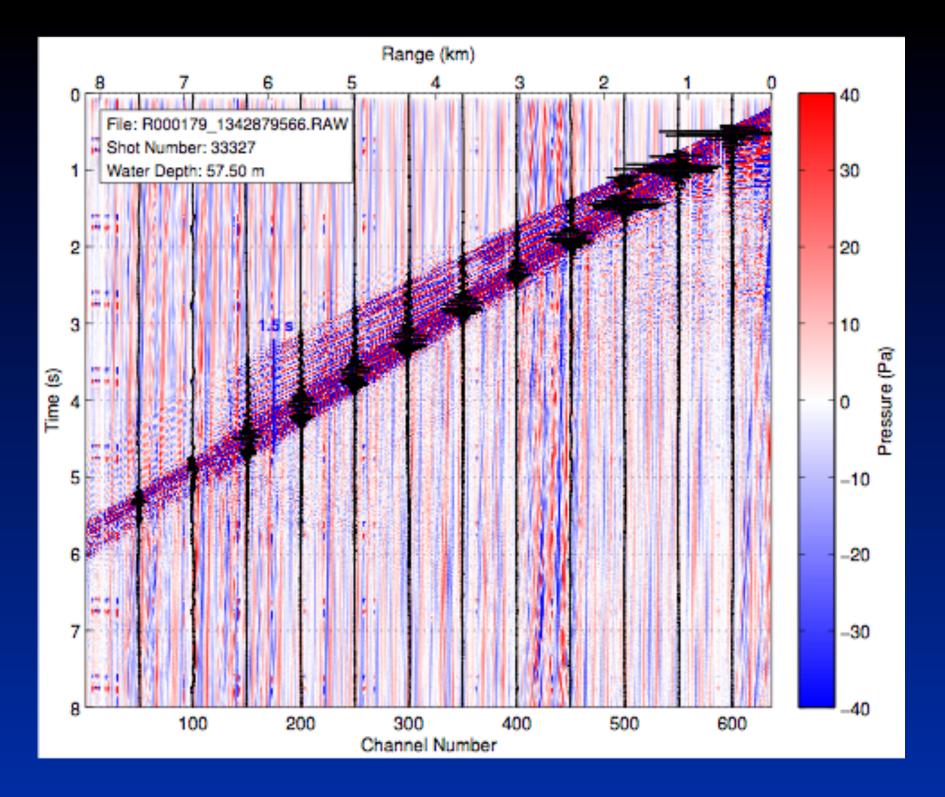
Cascadia Open-Access Seismic Transects and Ridge2Trench

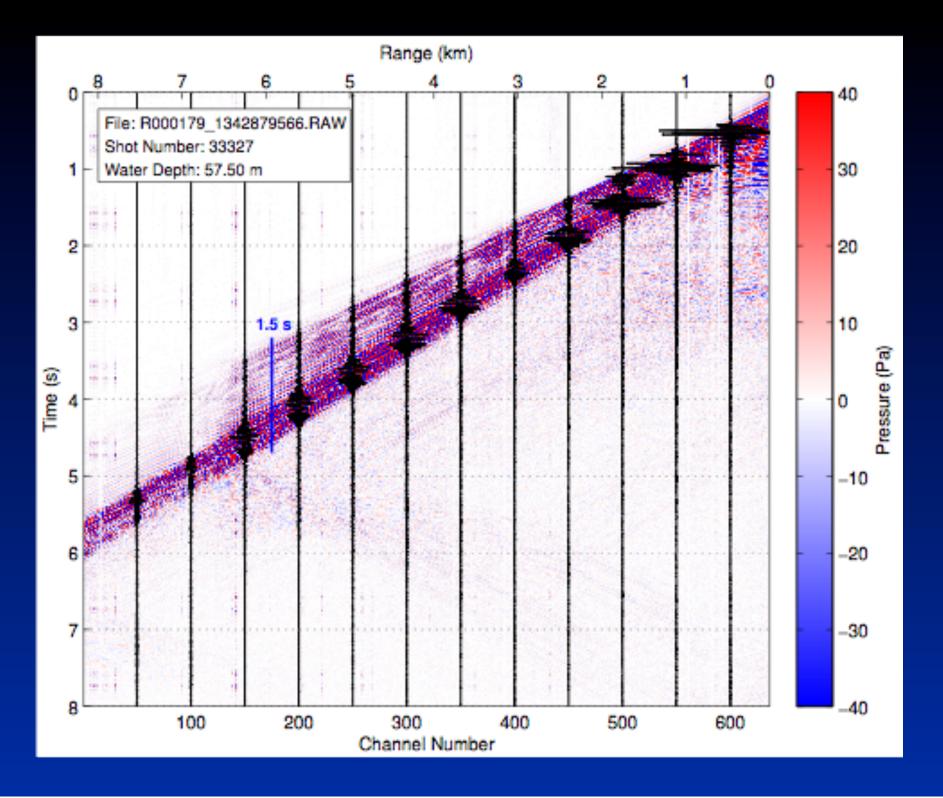


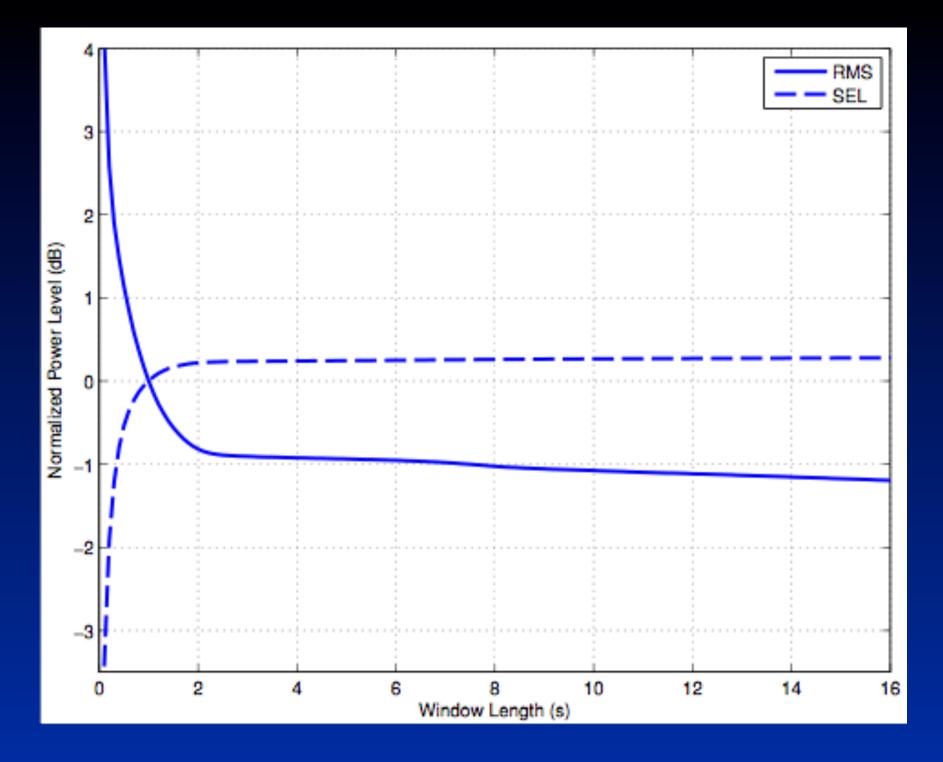
Streamer Data Preparation



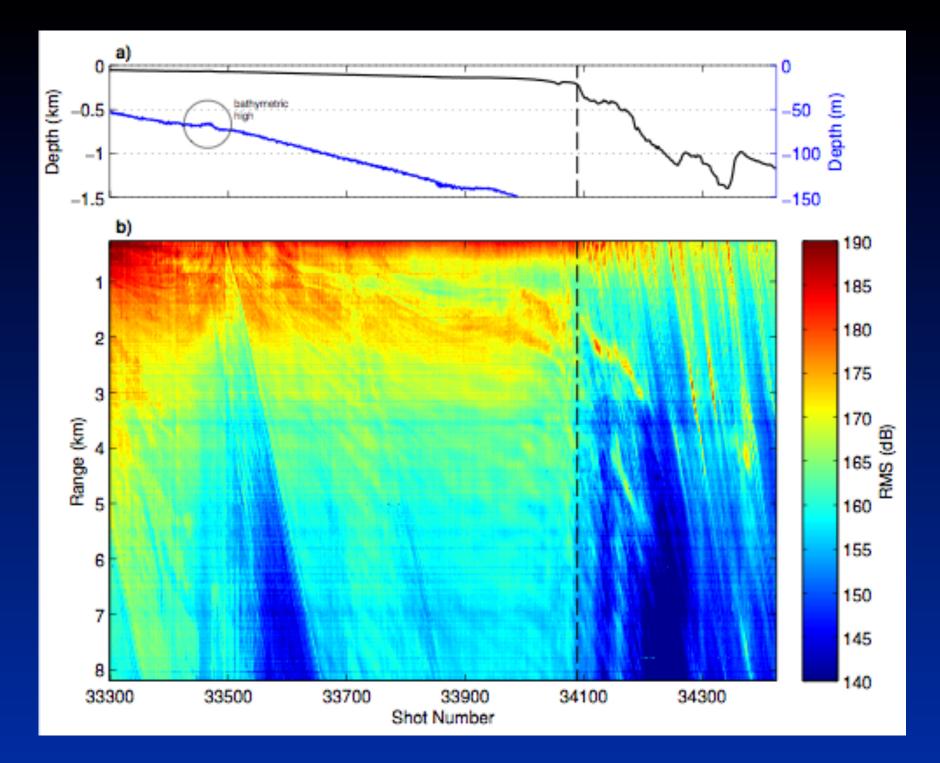




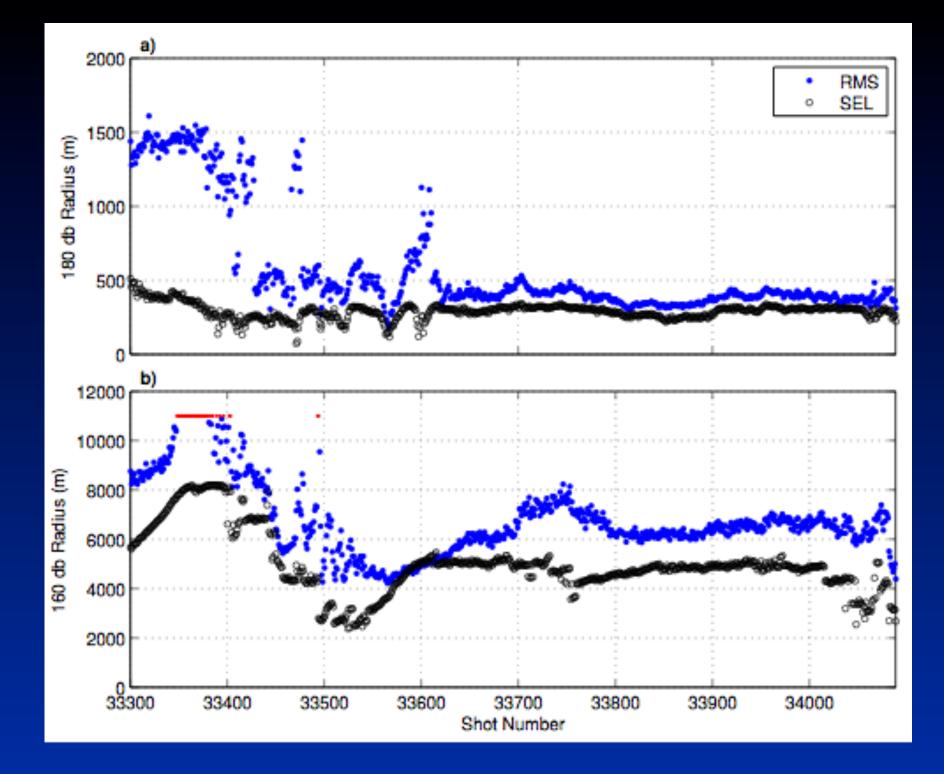




Power Levels



Safety Radii



More Information

Crone, T. J., M. Tolstoy, and H. Carton (2014), Estimating shallow water sound power levels and mitigation radii for the R/V Marcus G. Langseth using an 8 km long MCS streamer, Geochem. Geophys. Geosyst., 15, doi:10.1002/2014GC005420.

Future Research Directions

- Explore other extant datasets from other shallow water cruises/environments (New Jersey, ENAM)
- Adapt methods for use with with next generation of marine mammal safety guidelines
- Conduct another shallow water calibration to further refine the technique and develop a real-time safety radius system