



My Research Interests (in ~5 minutes)

Prof. David Lumley

*Cecil and Ida Green Endowed Chair in Geophysics
Dept Head Geosciences, Physics, UT Dallas*



Geophysics

Geophysics is the study of the earth, oceans, atmosphere and beyond with the quantitative methods of physics, math and computer science.

My Research Education

BSc, MSc Geophysics & Astronomy, UBC

- **Doug Oldenburg** *Geophysical Inverse Theory*
- **Garry Clarke** *Glaciology, Ice Flow Dynamics*
- **Matt Yedlin** *Mathematical Physics*



University Of
British Columbia

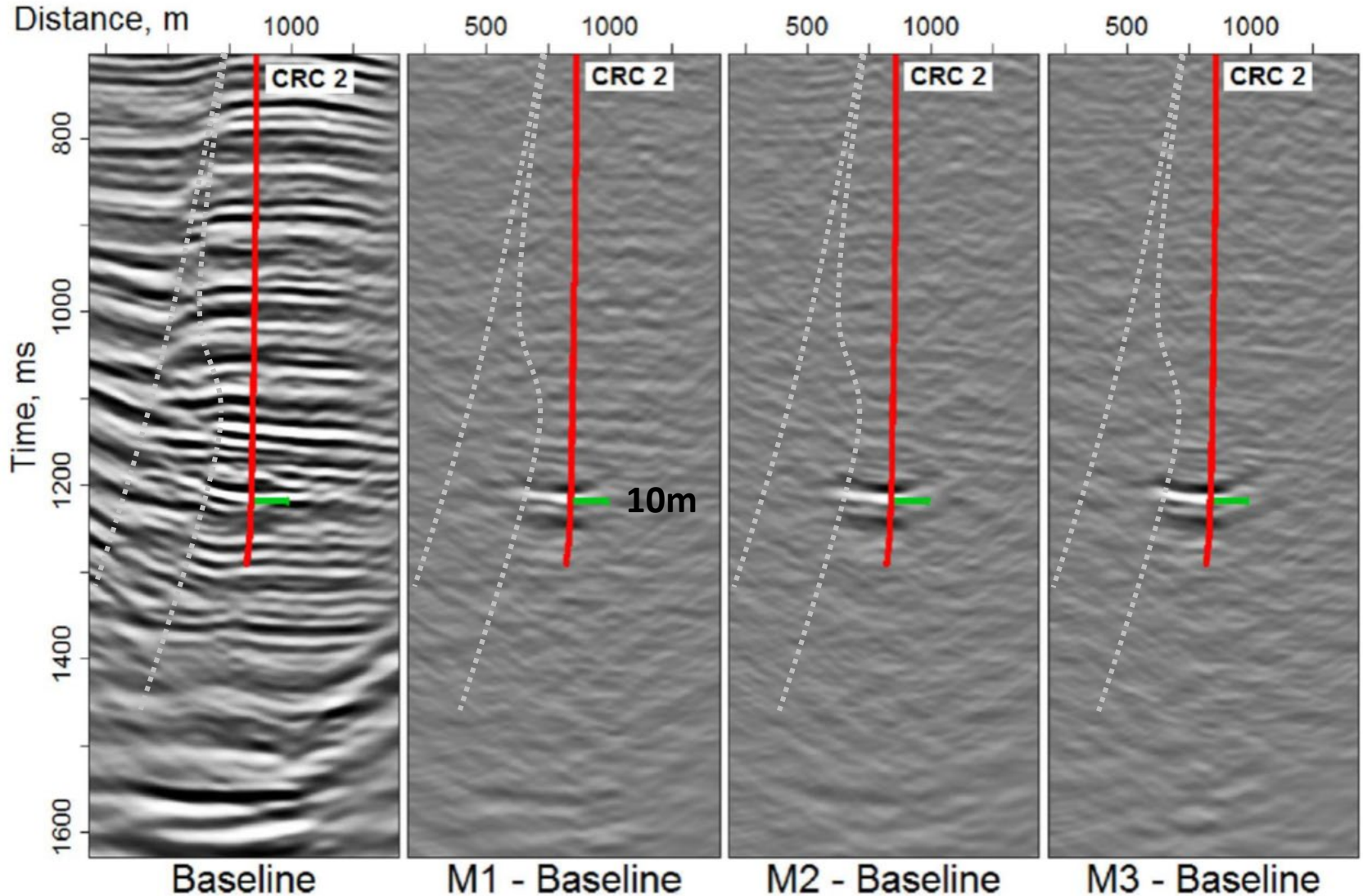
PhD Geophysics, Stanford

- **Jon Claerbout** *Seismic Waves, Imaging*
- **Amos Nur** *Rock Physics, Tectonics*
- **Greg Beroza** *Earthquake Seismology*
- **Norm Sleep** *Planetary Geophysics*
- **Lynn Orr** *Fluid Flow Dynamics*

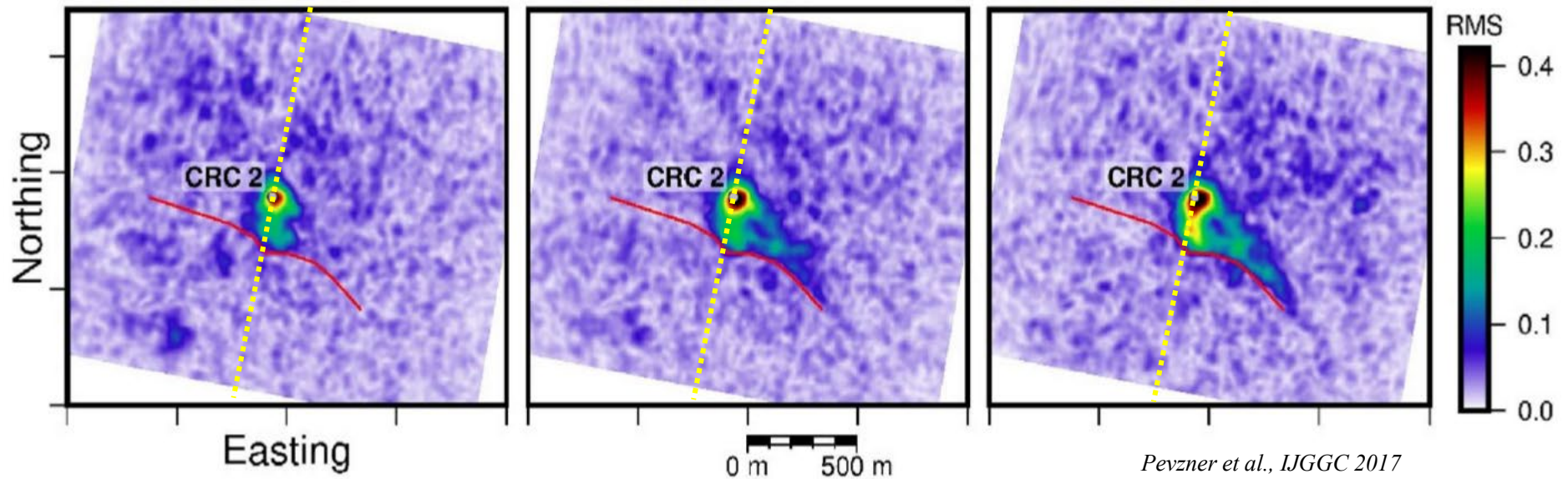


Stanford
University

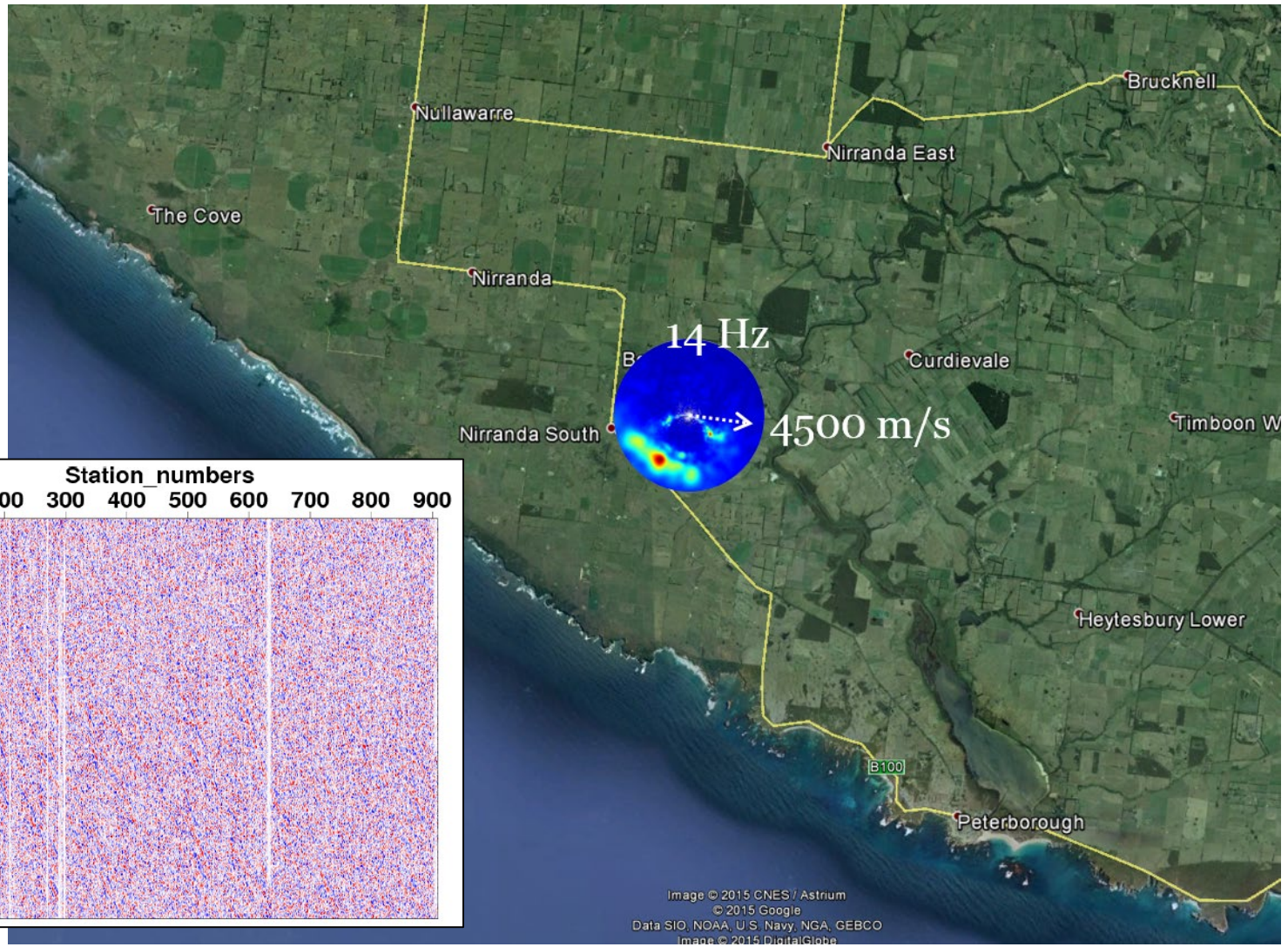
4D seismic... CO₂ injection



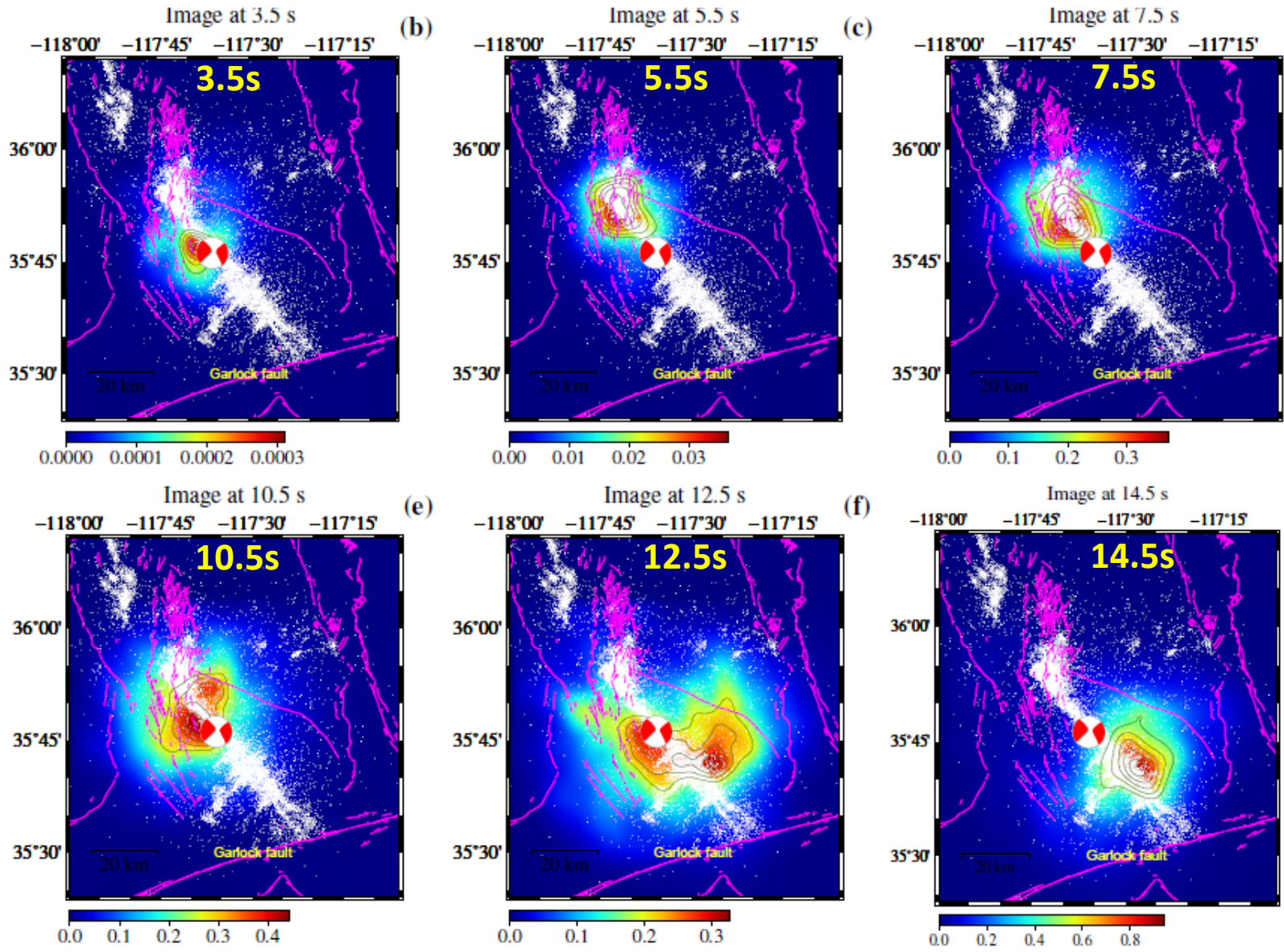
4D seismic... CO₂ injection



4D ambient noise imaging!



TL earthquake rupture propagation



SAGE Summer Geophysics Camp

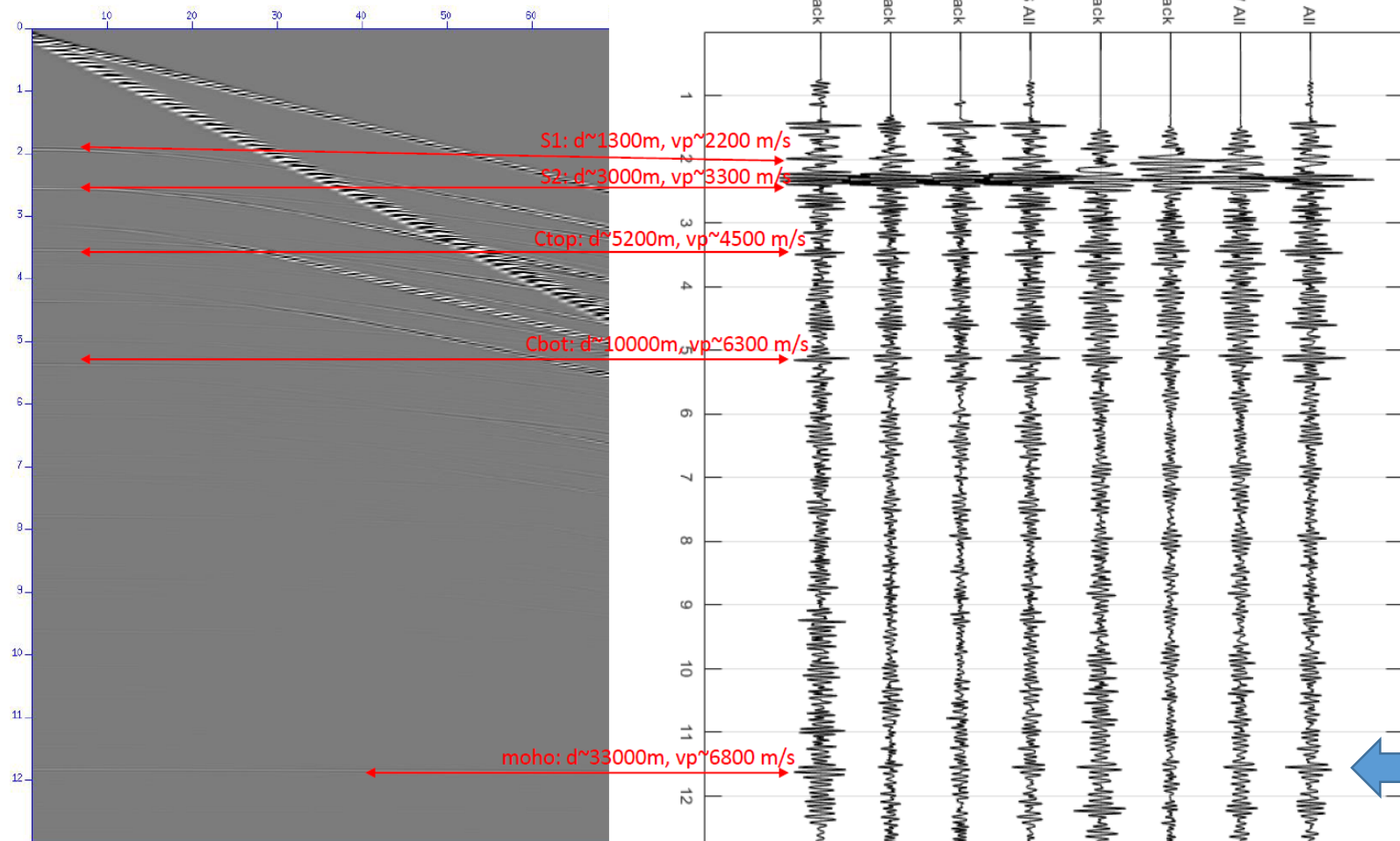


2019 Moho experiment

Yang Zhang

- Moho vibe experiment
- Data processing, modeling
- MS Geophysics Summer 2022

Synthetic Seismogram



← “Moho”

Near-surface Geophysics 1629 Batavia archaeology expedition



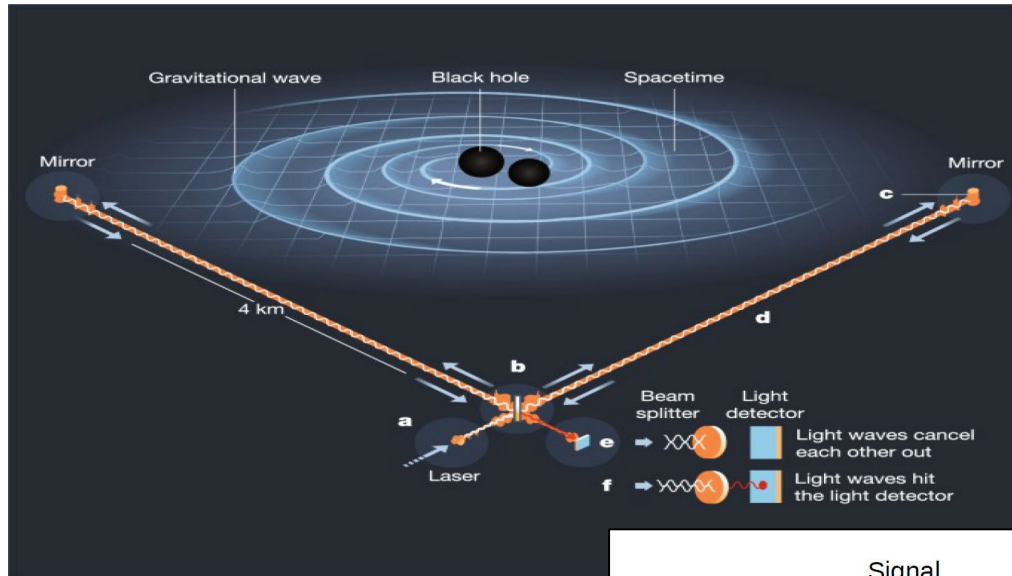
Find may shed light on lives of sailors

Archaeologists have discovered a skeleton from the 1629 Batavia tragedy buried on Beacon Island in the Arolhos Islands off Geraldton.

REPORT PAGES 32-33 Picture: Nic Ellis

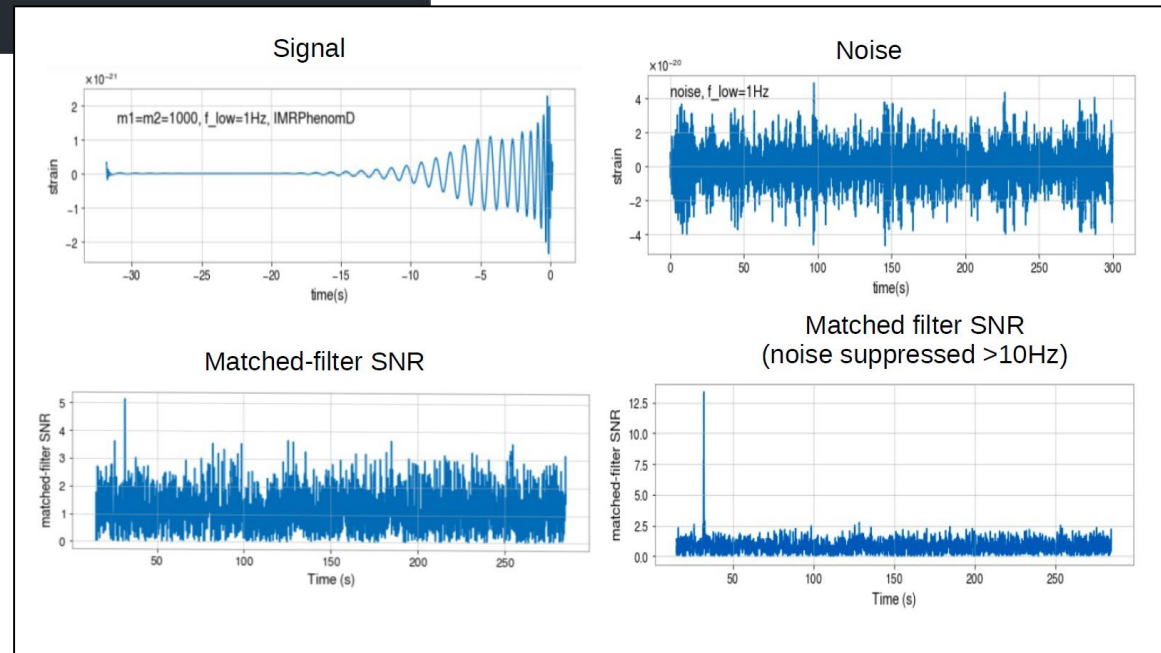


Black Holes + Seismic Noise



Chinthak Murali

- LIGO Gravitational Waves
- Ambient Seismic Noise
- ASN, PEF, Arrays, ML...
- PhD Physics Fall 2023





Thank you