

Seismic Modeling – Phase I

KRCEE – Quarterly Meeting

July 08, 2010

Lexington, KY

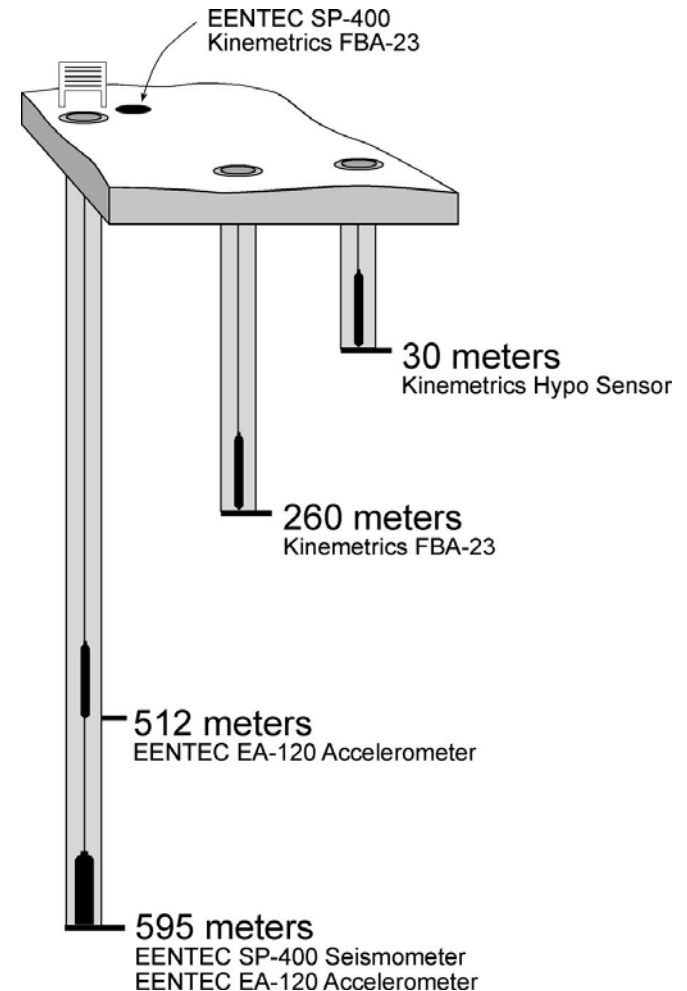
*A. Al-Mayahi and E. Woolery
University of Kentucky
Department of Earth and Environmental Sciences*



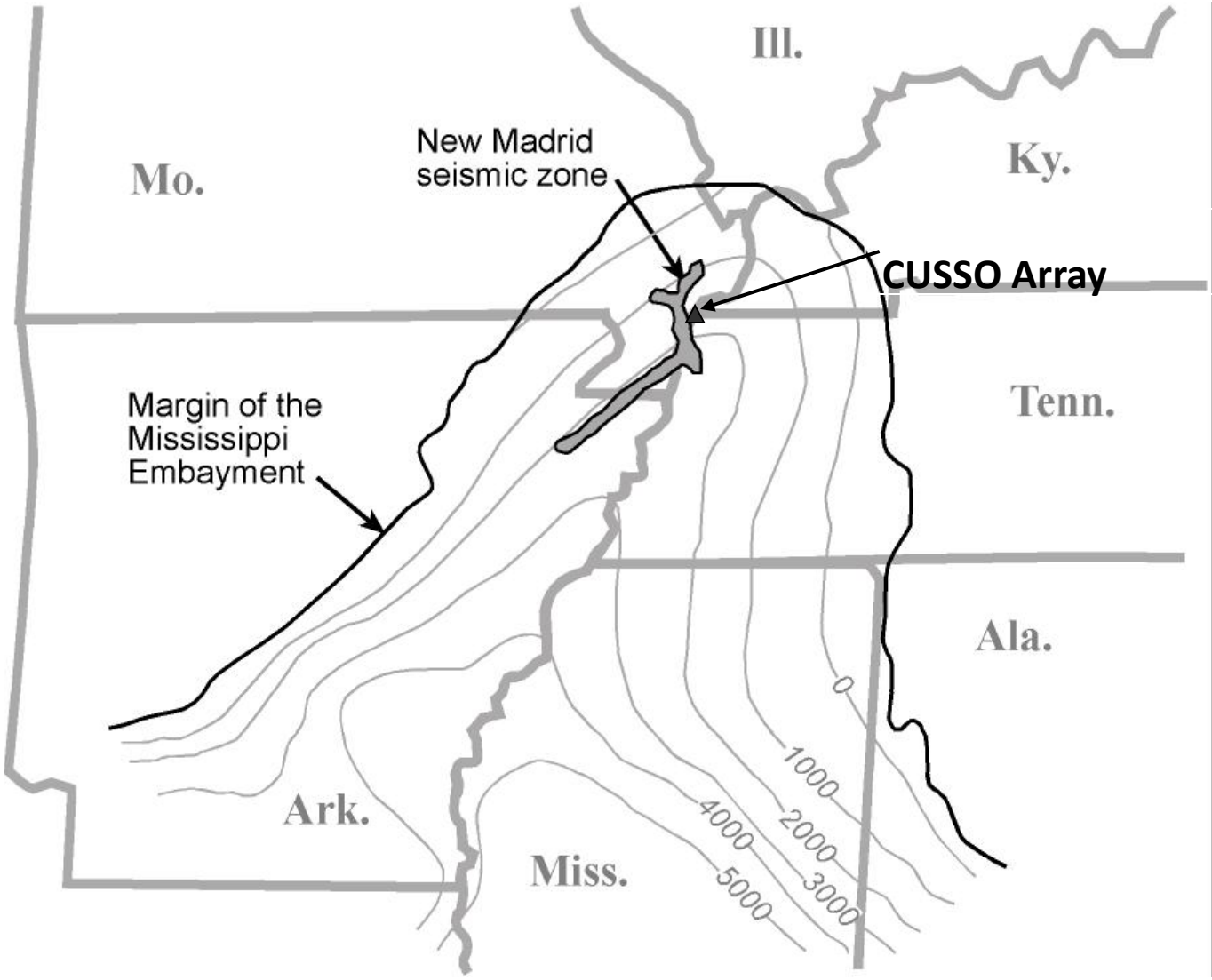
Seismic Modeling – Phase I

Objectives

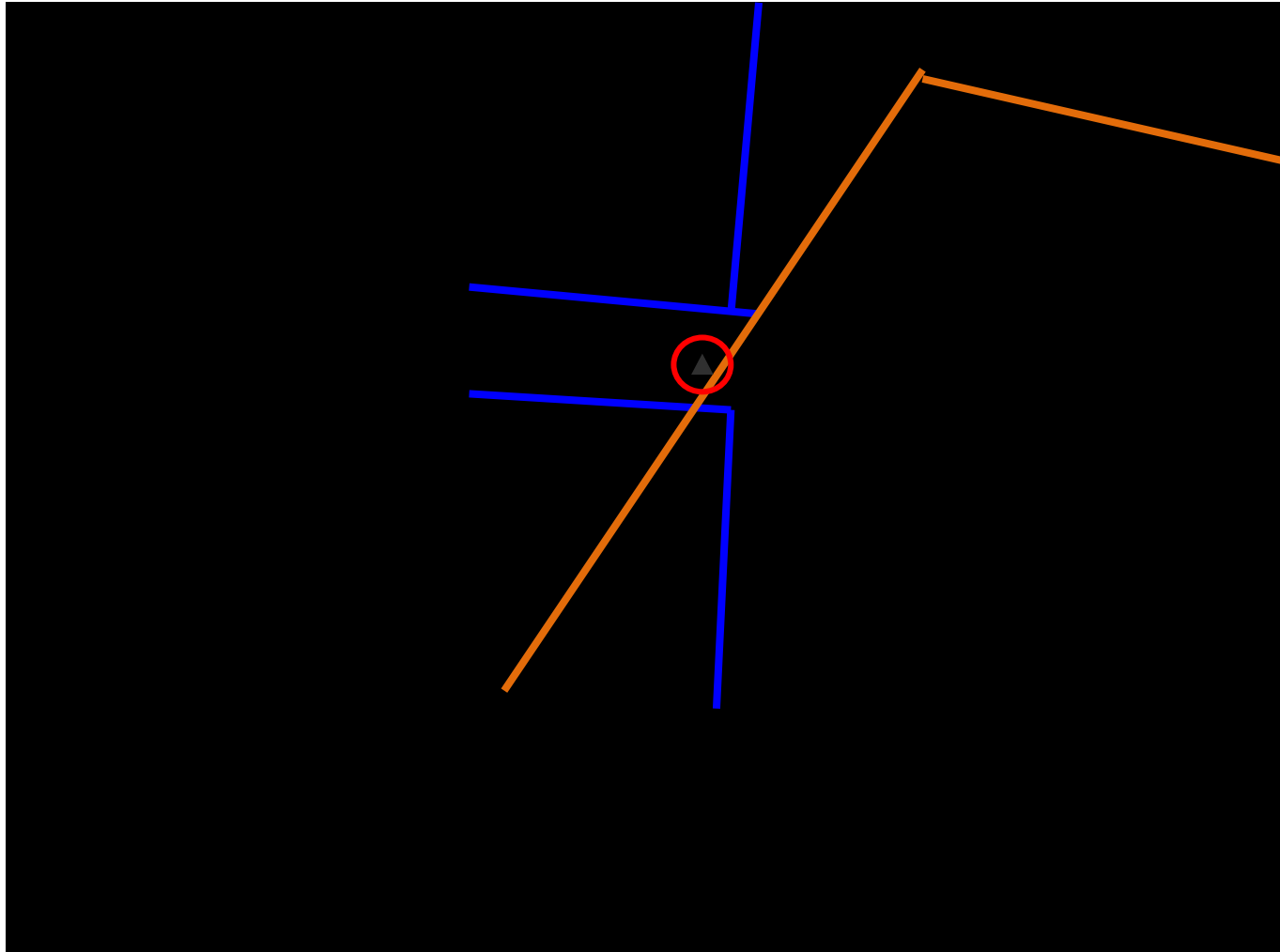
- *Application of seismic modeling techniques to CUSSO seismic reflection data.*
- Pilot seismic reprocessing and modeling at PGDP in vicinity of C-746-U Landfill.
- Matrix testing for optimal P- and S-wave acquisition attributes.
- S-wave birefringence pilot test.
- Wavelet analysis pilot test.



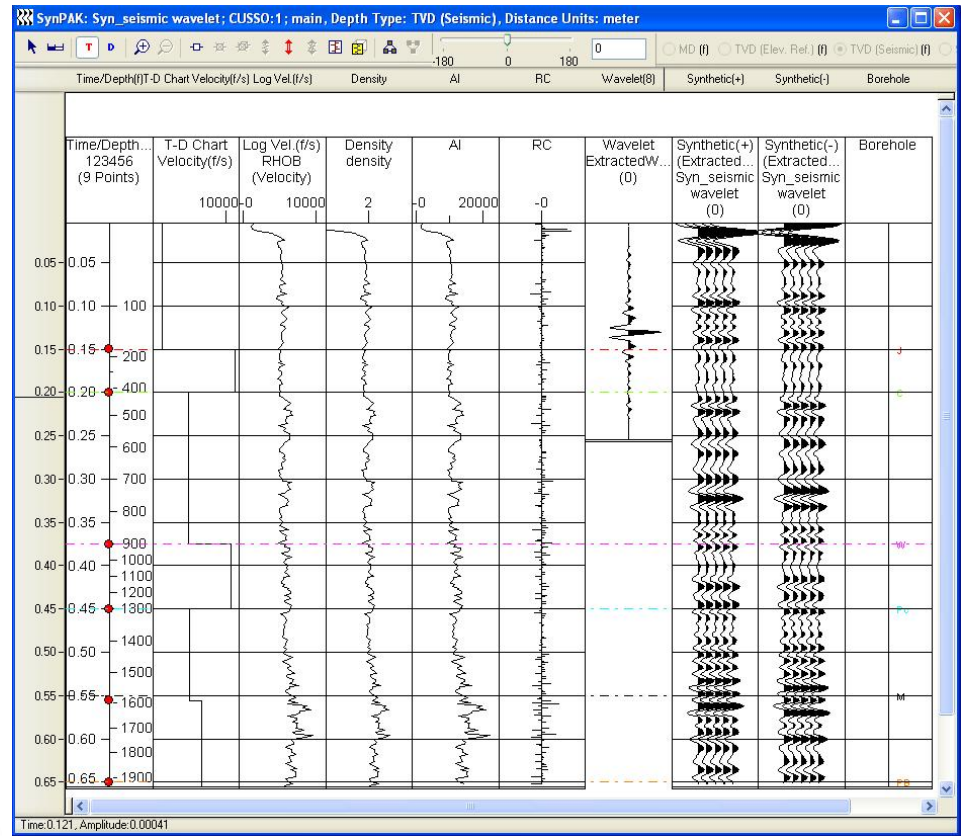
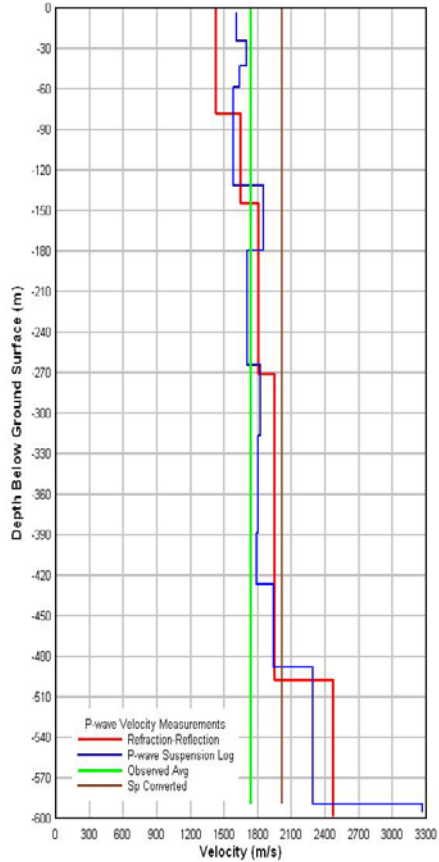
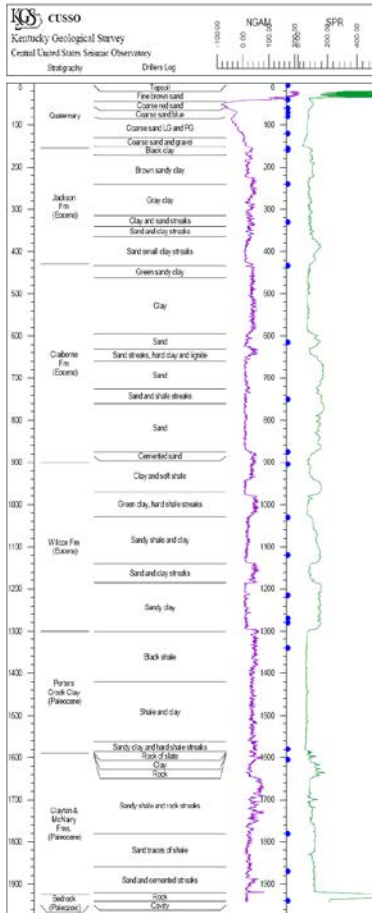
CUSSO – Location



CUSSO – Location

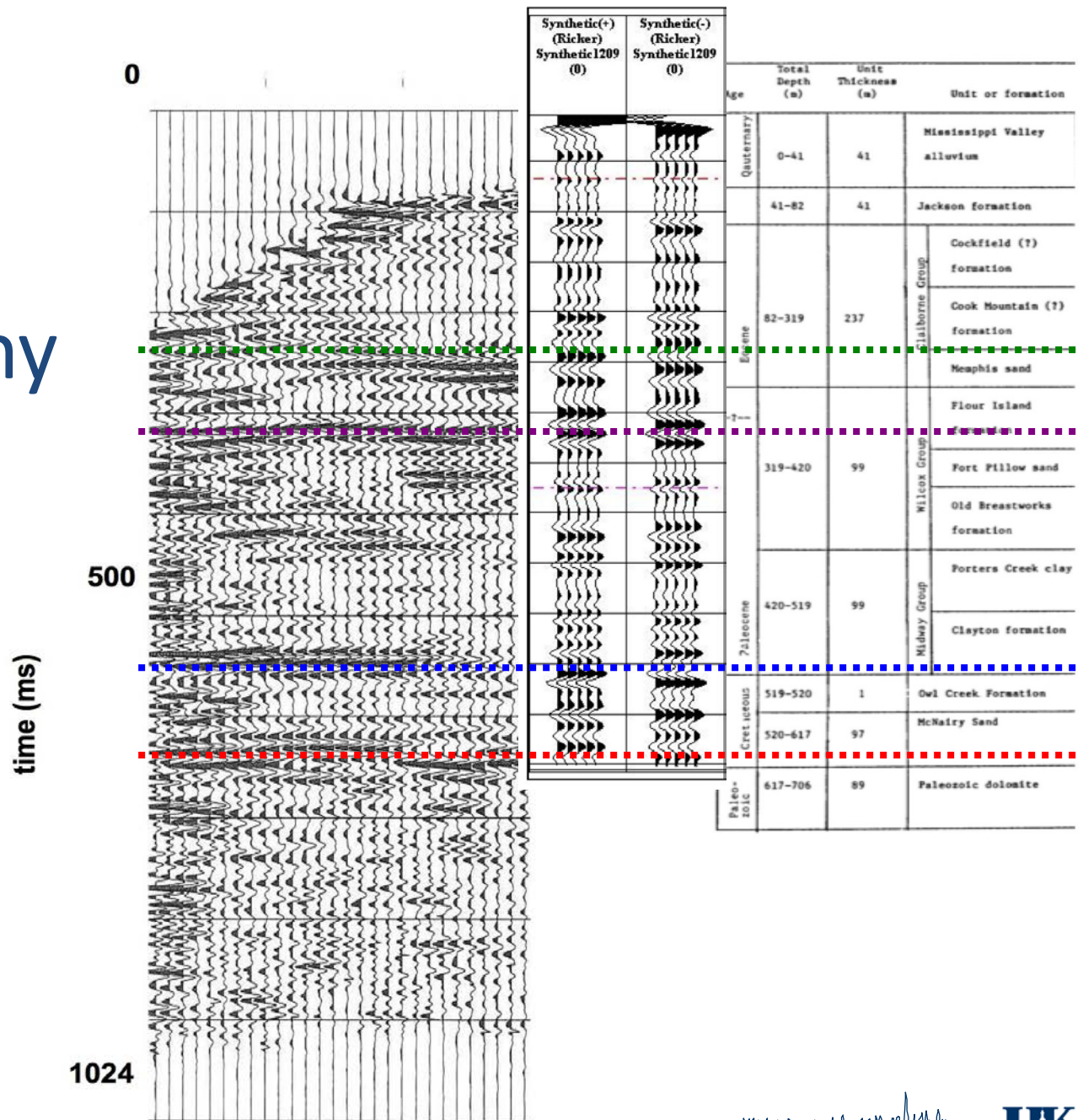


CUSSO – Synthetic Seismogram



(Ricker Wavelet)

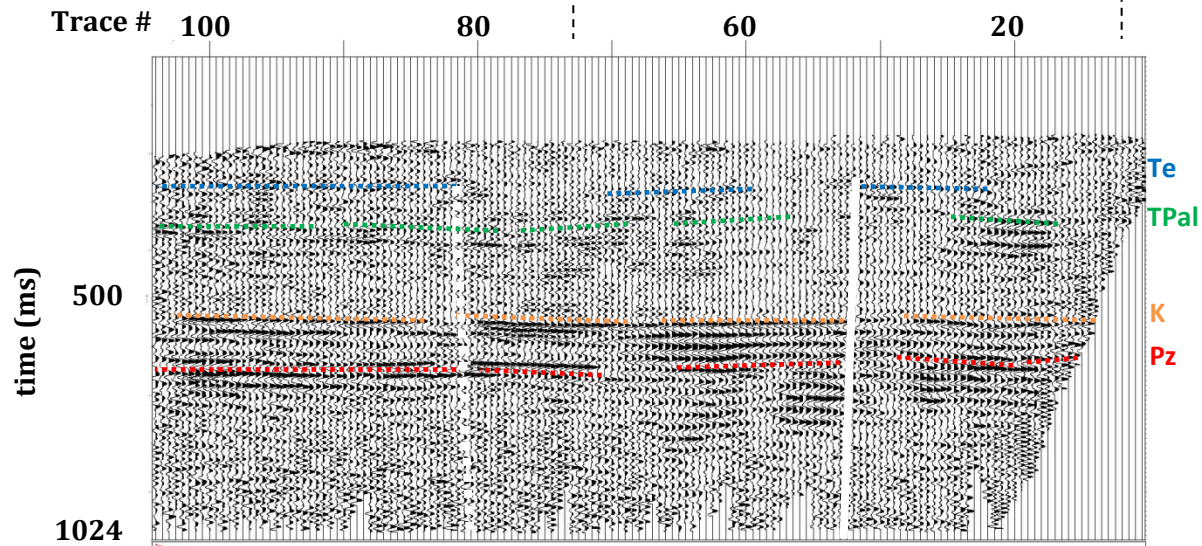
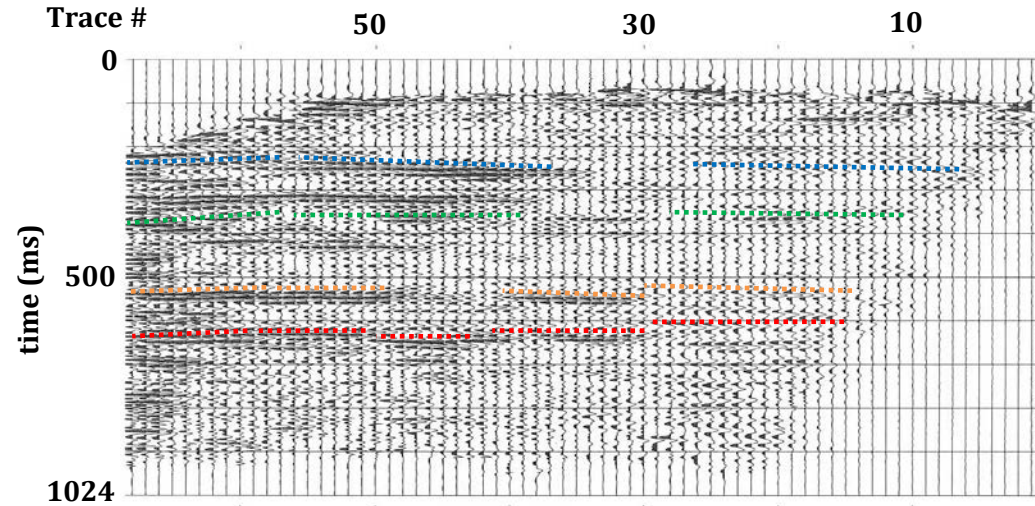
CUSSO Seismic Stratigraphy



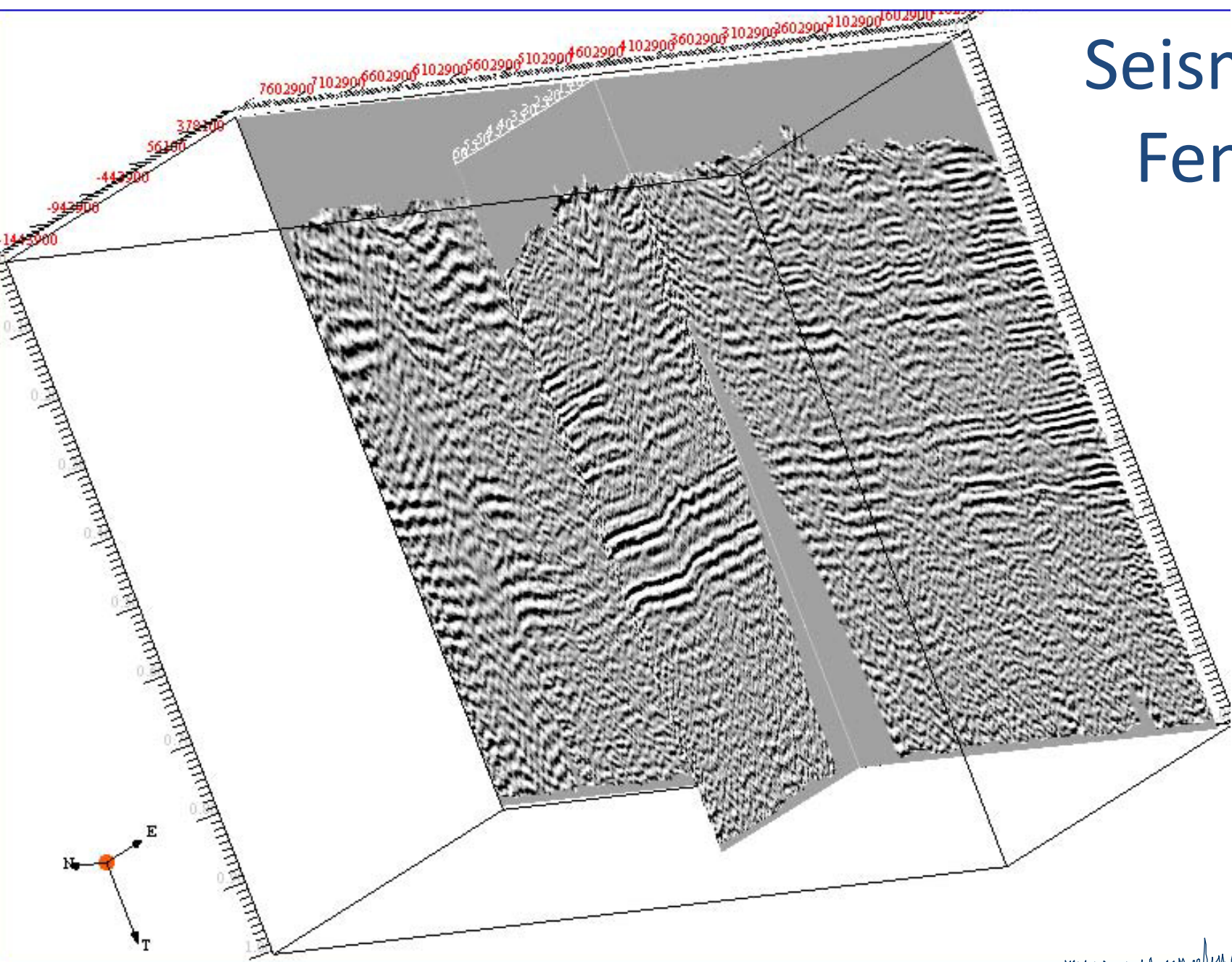
CUSSO-4

W

E



Seismic Fence



Horizon Fence

