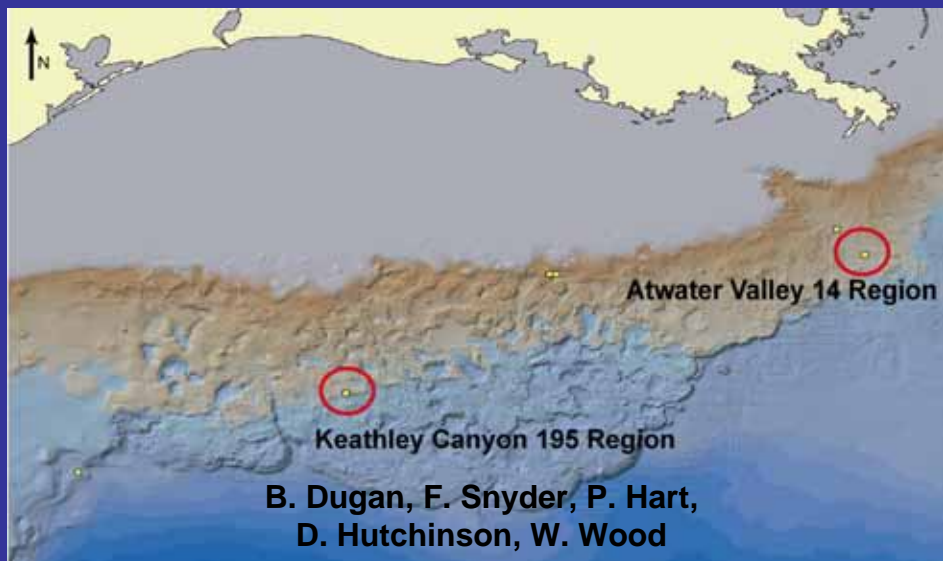


Seismic-Based JIP Site Suggestions



01 October 2003



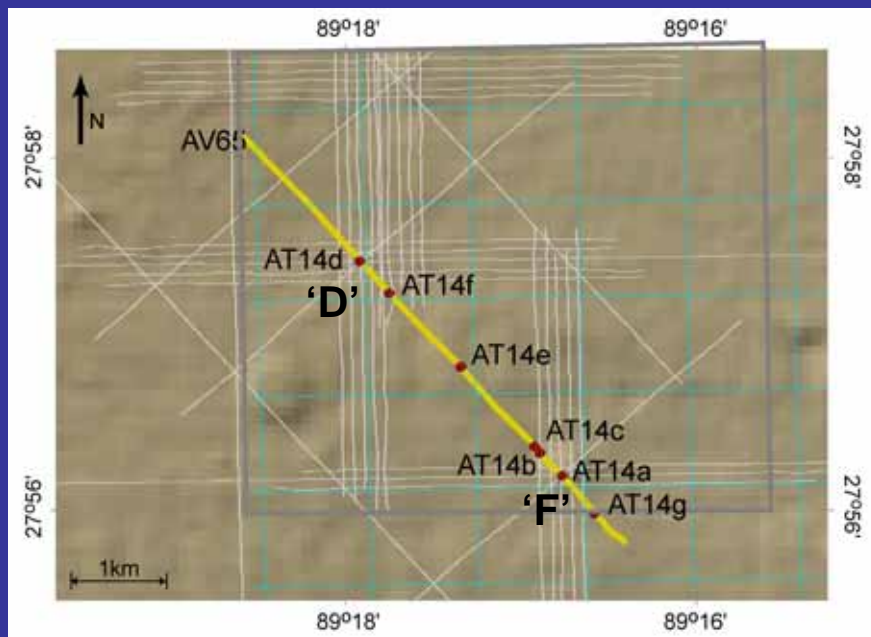
Objective: to understand formation, concentration, and distribution of hydrate in the northern GOM

- geological variability
- geological expression
- physical/chemical properties
- composition
- geophysical indicators

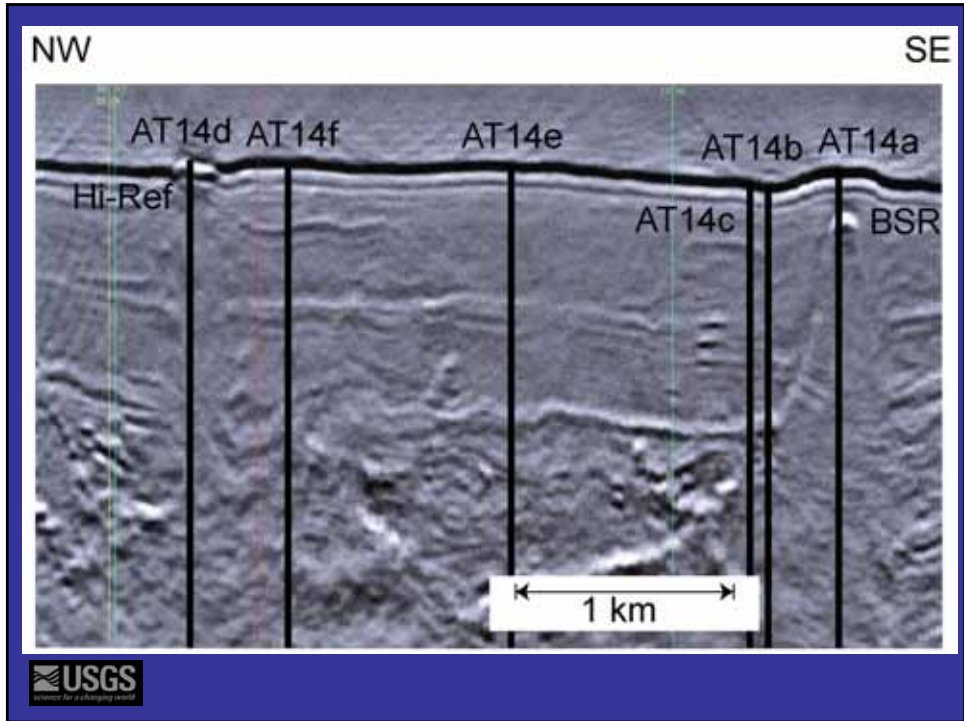
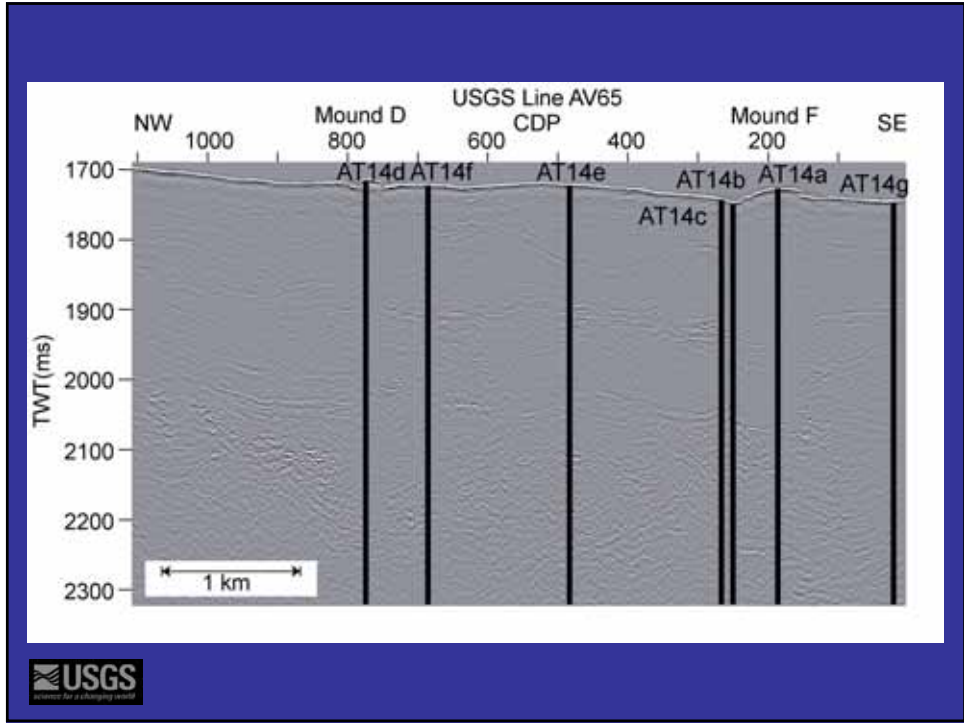


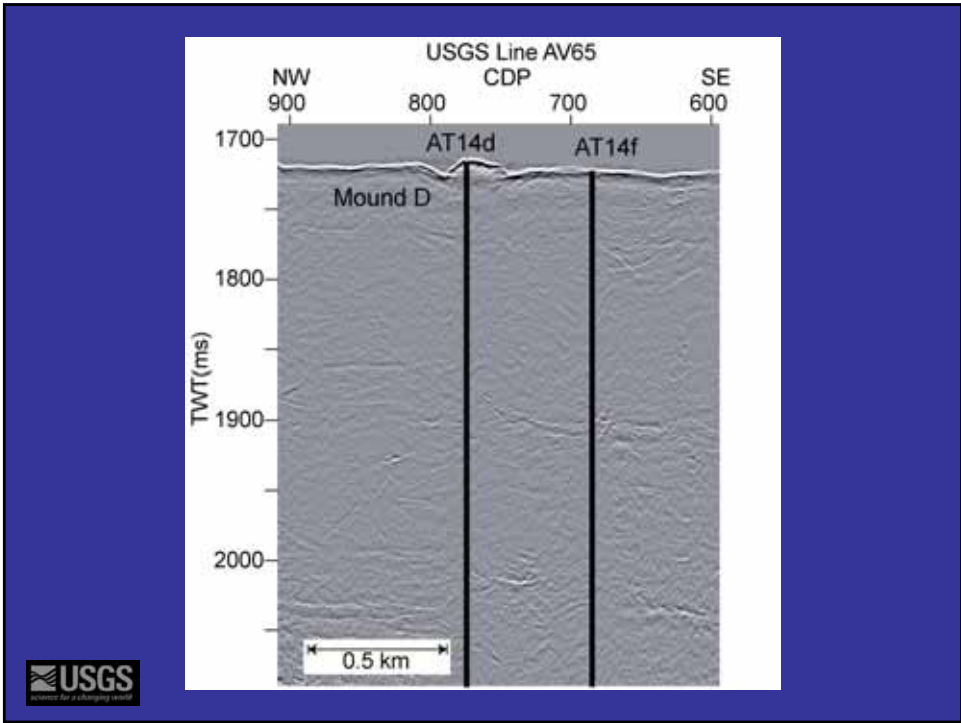
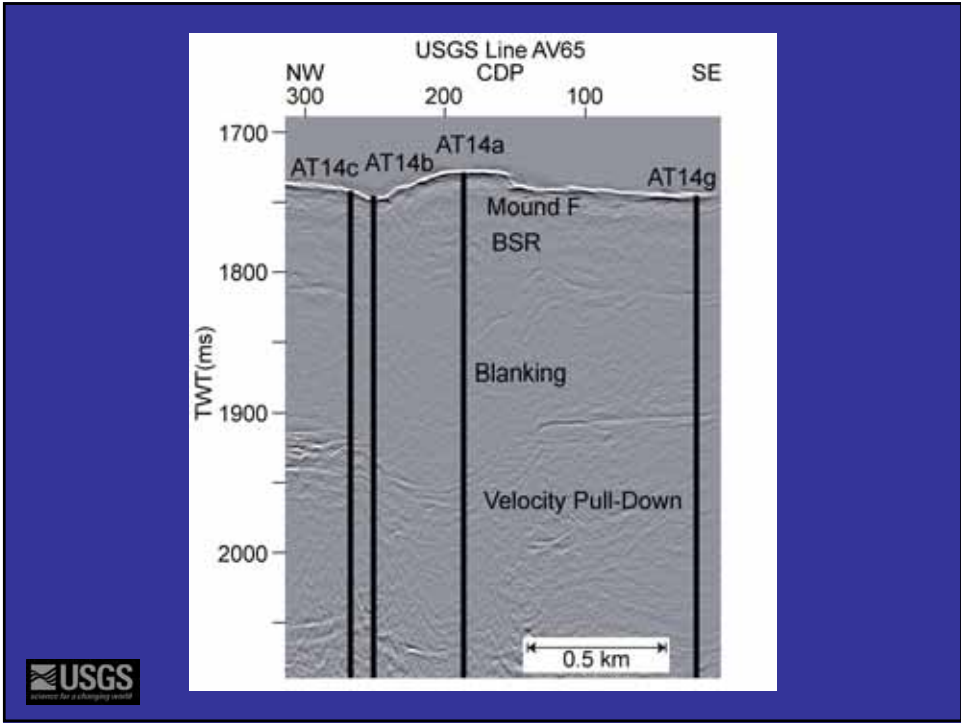
Atwater Valley 14 Region

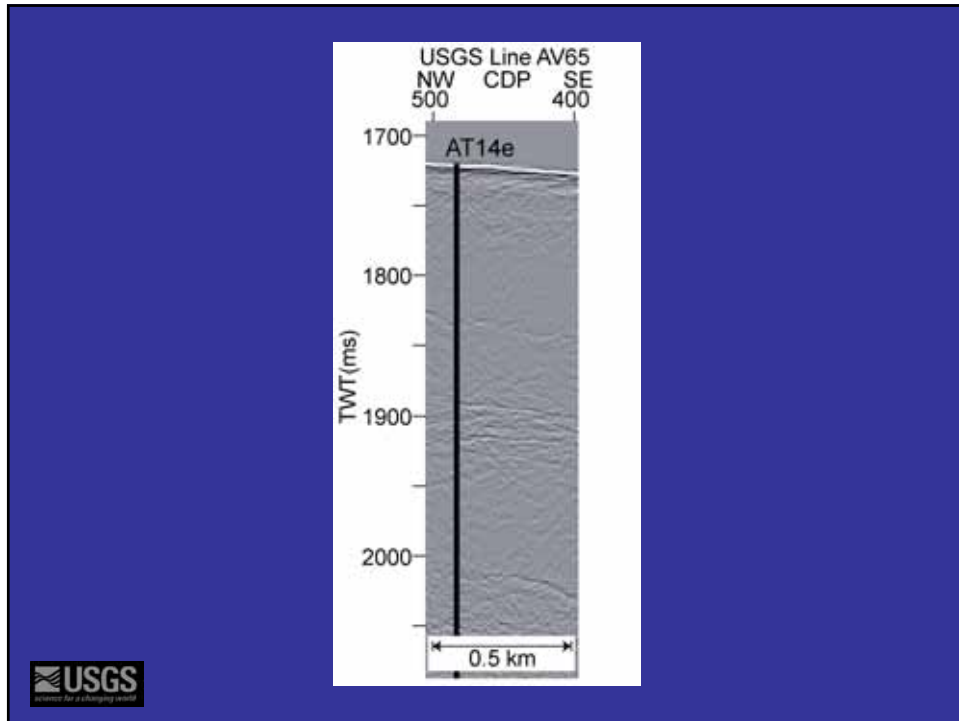
- 1) Local, anomalously shallow BSR
- 2) Seismic blanking
- 3) Possible seafloor hydrate
- 4) Baseline site



Atwater Valley 14 Region

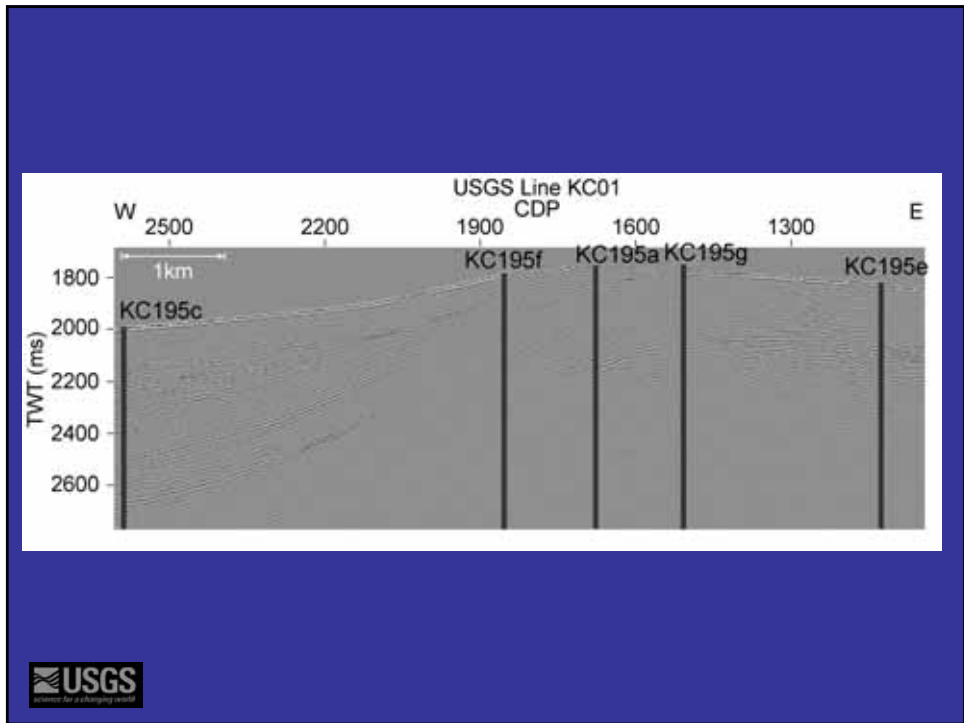


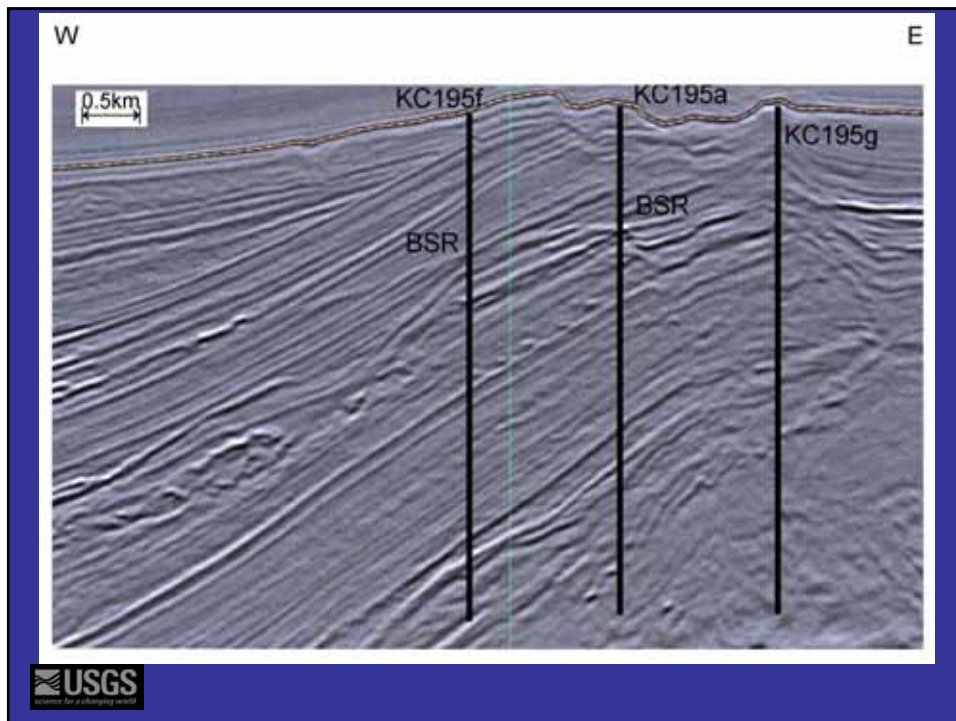
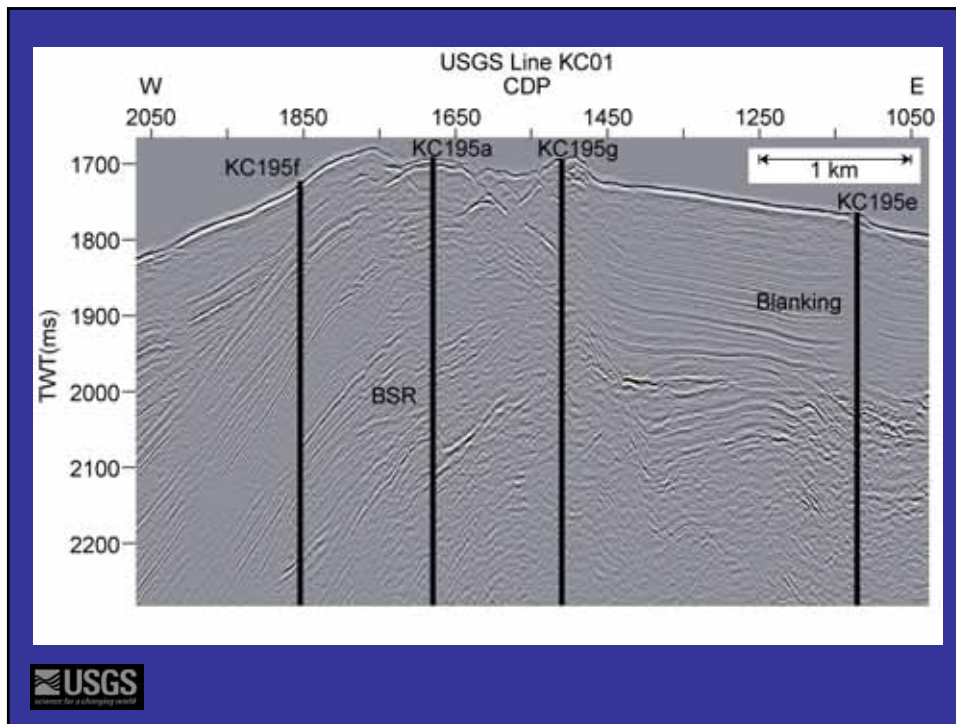


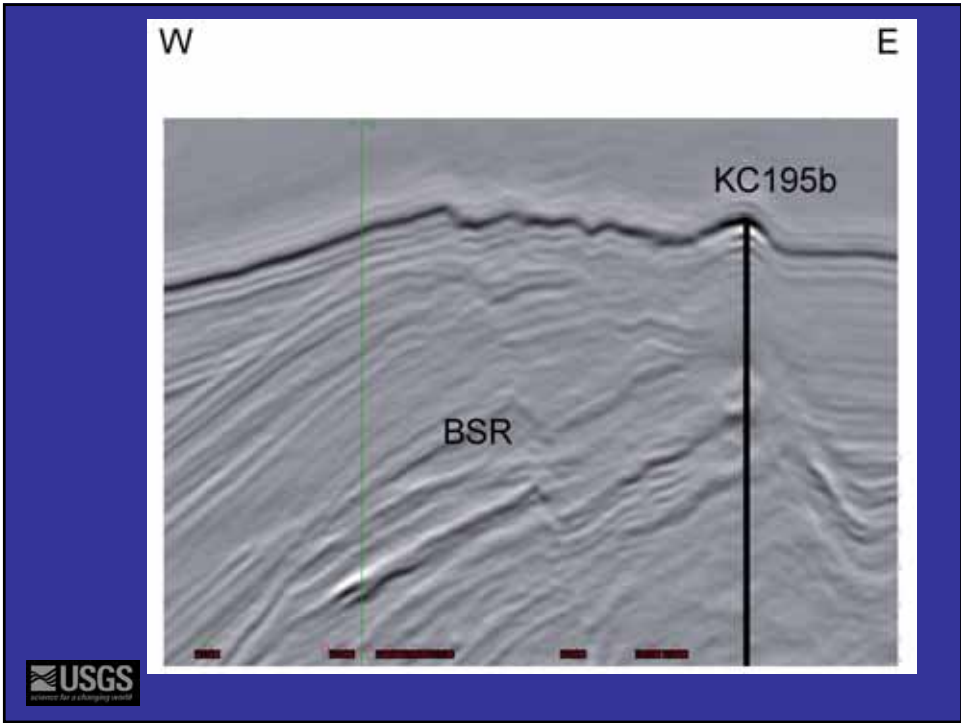
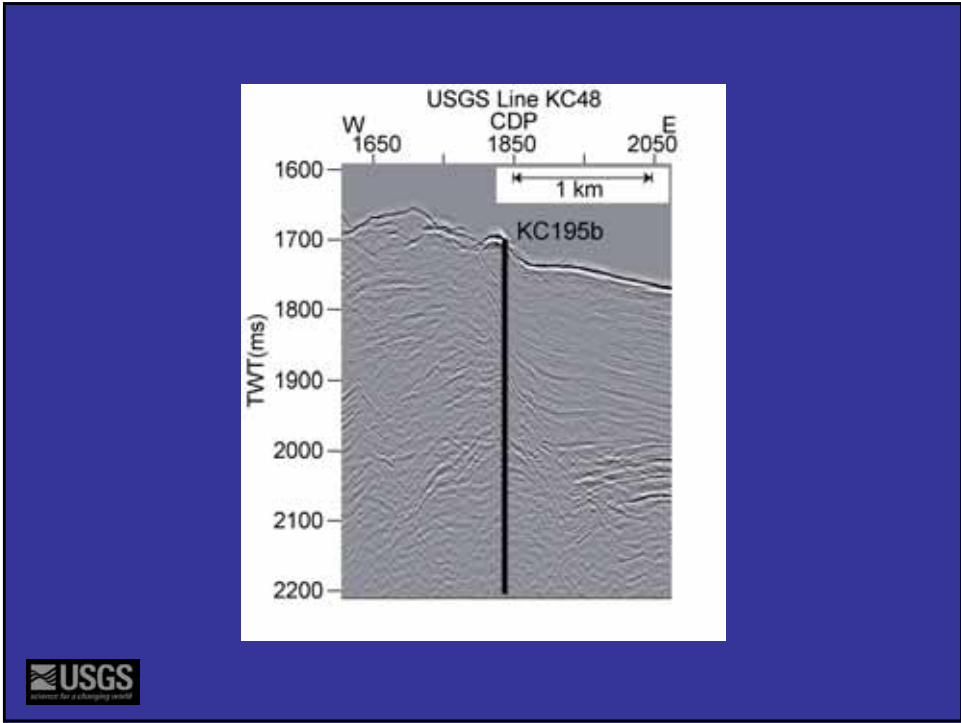


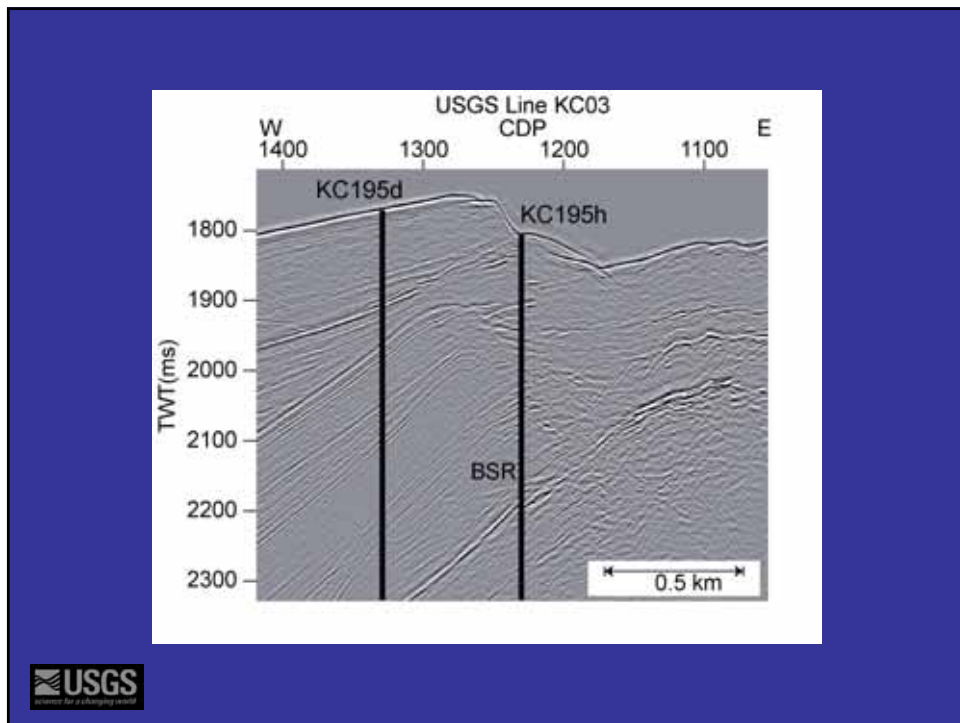
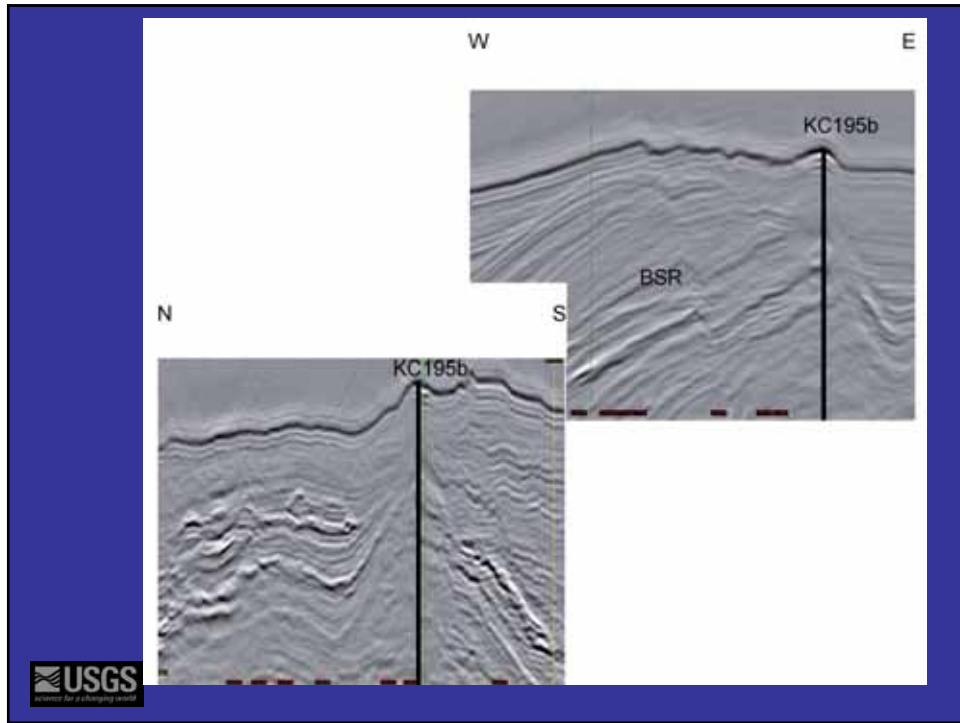
Keathley Canyon 195 Region

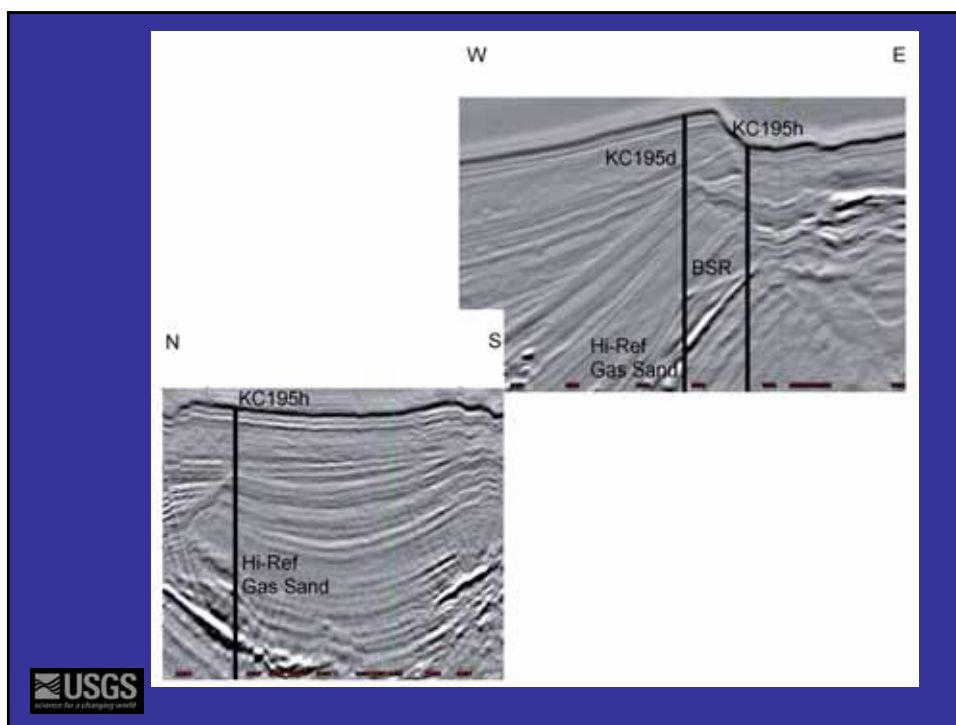
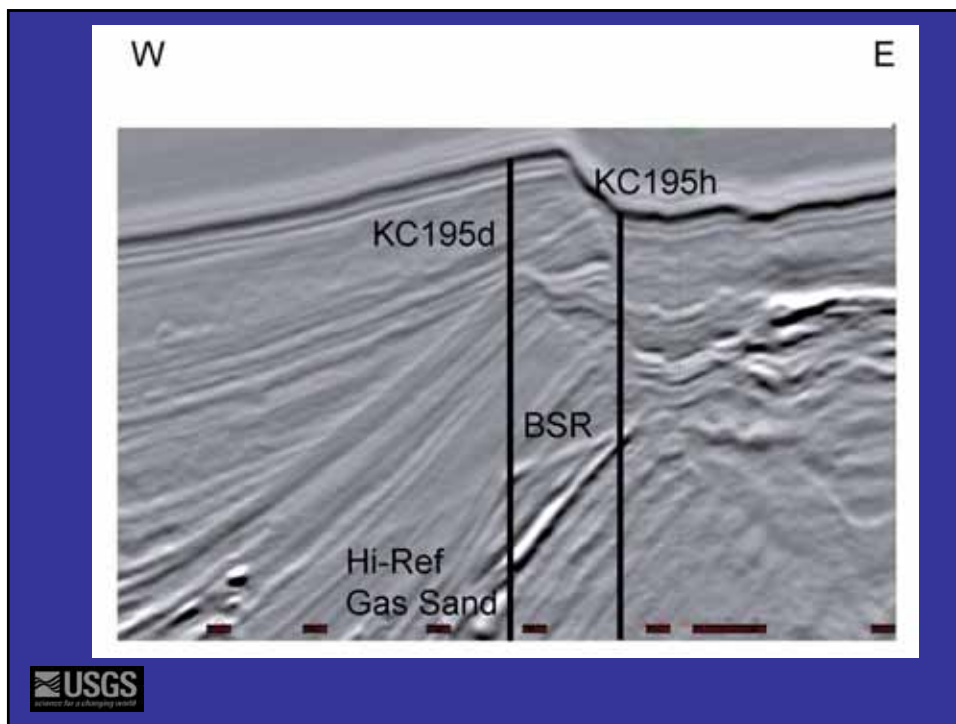
- 1) Regional BSR
- 2) High-amplitude sands
- 3) Mini-basin baseline
- 4) Mounds

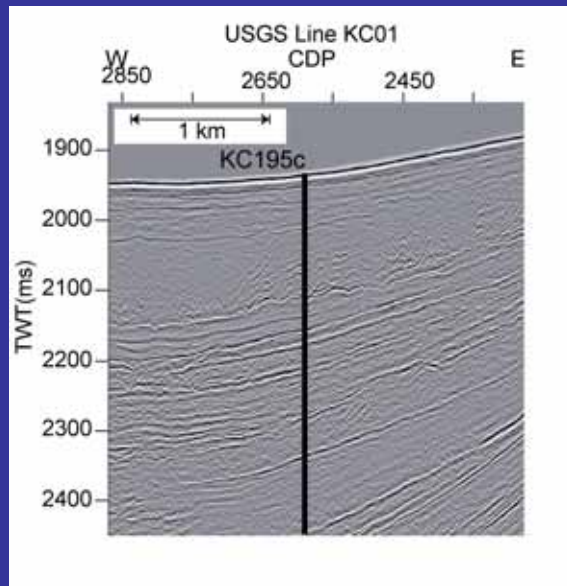












Science Plan

- 1) 500-750 mbsf (1650-2450 ft bml)
- 2) continuous coring
- 3) logging-while-drilling
- 4) *in situ* pressure/temperature
- 5) porewater chemistry
- 6) lithology, grain size, porosity
- 7) core preservation



Post-Cruise Studies

- 1) geotechnical experiments
- 2) geochemical analyses
- 3) numerical modeling
 - a) development
 - b) calibration
- 4) correlate direct/indirect data

