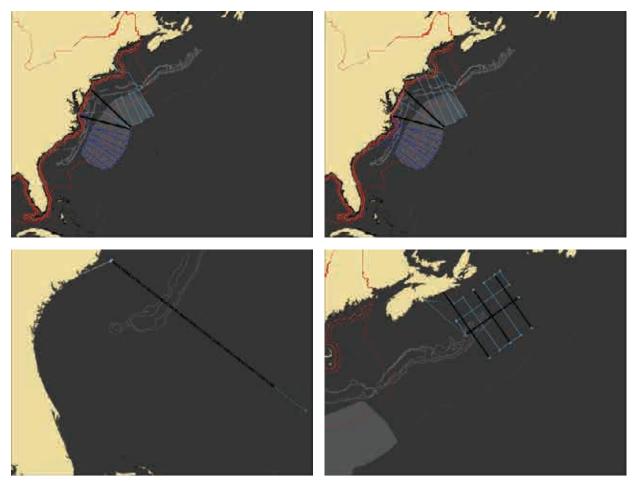
A few (marine) experiment scenarios



GeoPRISMS ENAM luncheon at AGU 2011

Facilities:

Airguns + MCS:



R/V Langseth (UNOLS)

OBS Deployments:



From the Langseth OR an intermediate-global class general-use UNOLS vessel

OBS:



Short period OBS from the US OBSIP: - 67 from SIO -30 from WHOI

Rates for budget estimates:

NOLS

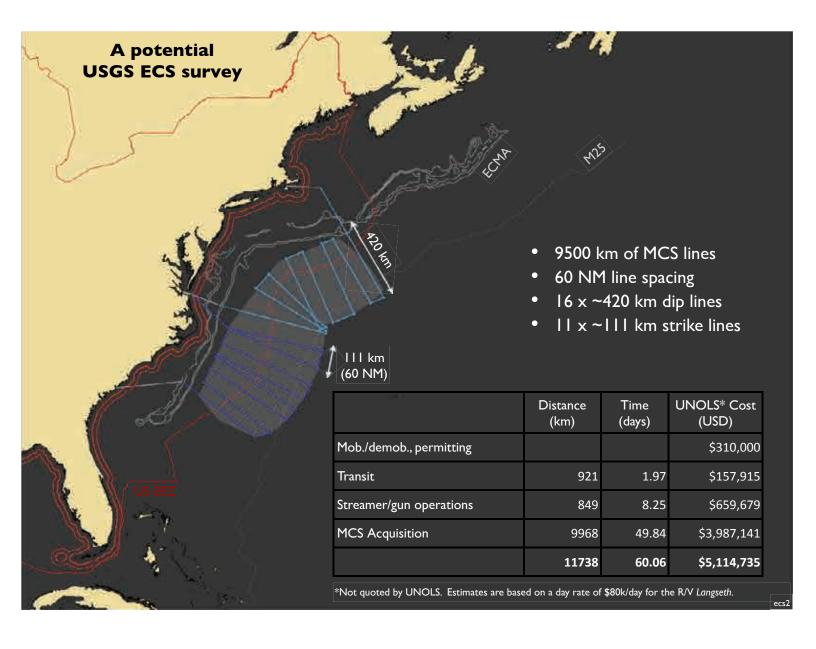
R/V Langseth: 10.5 kts transit speed, 4.5 kts MCS acquisition speed, assume \$80k/day cost to UNOLS **OBS Ship:** 11 kts transit speed, assume \$20-40k/day cost to UNOLS

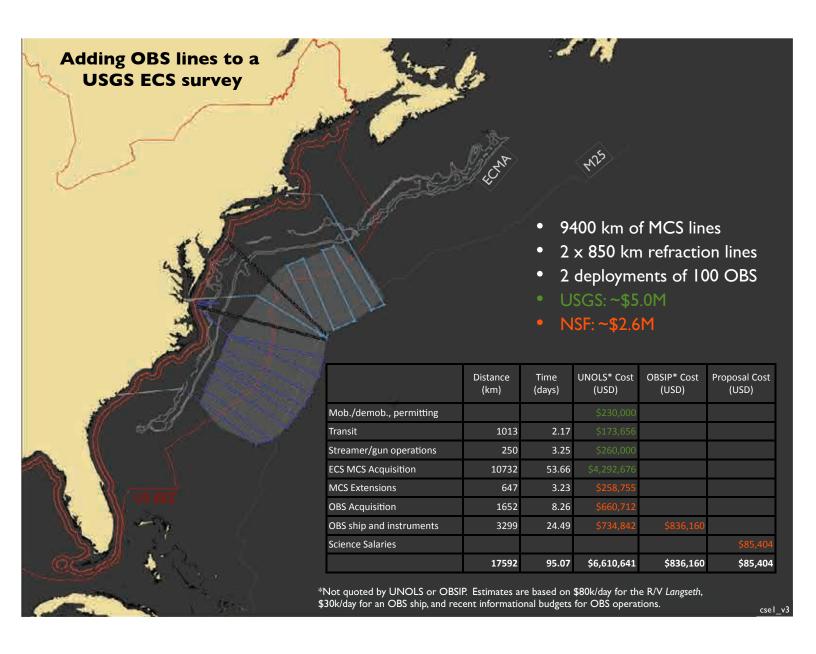
OBSIP

OBS drops: \$2-3k/instrument drop cost + engineering support, shipping

Proposal

Science salaries: 2-3 chief scientists per ship at \$330/day + travel, travel costs for 4-5 students





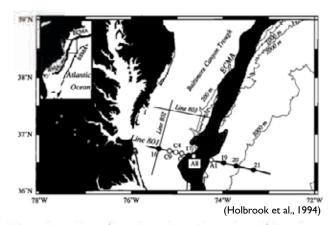
EDGE Line 801: Depth imaging with MCS + wide-angle data

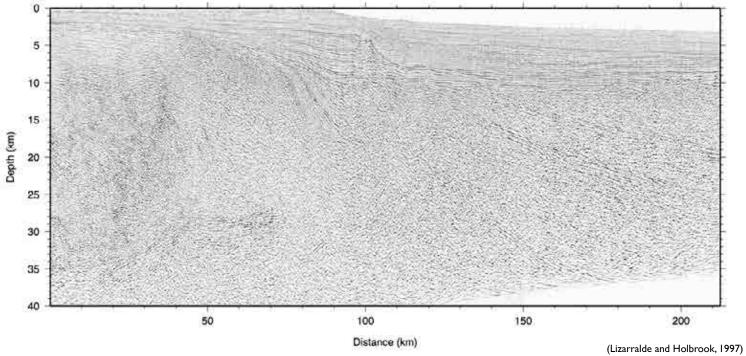
Ship: M/V Geco Searcher

Source: 36-element, 10800 cu. in. airgun array

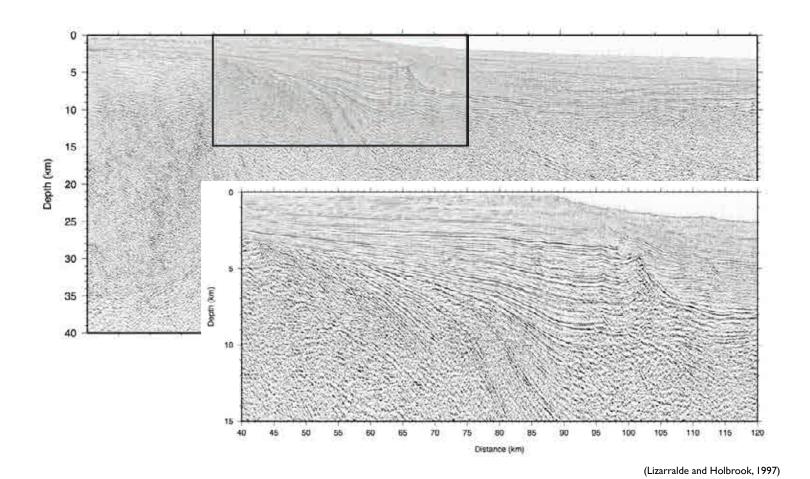
MCS: 240-channels, 6-km-long streamer

Wide-angle: 10 OBH, 20-km spacing

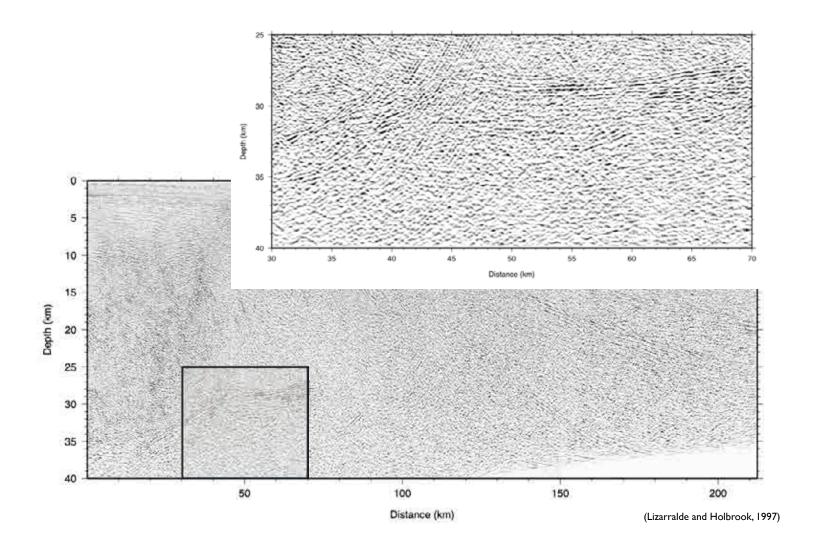




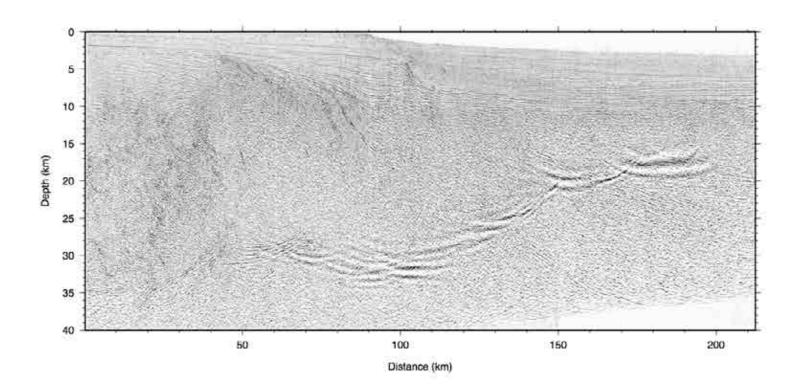
EDGE Line 801: SDRS and carbonate bank in migrated MCS data



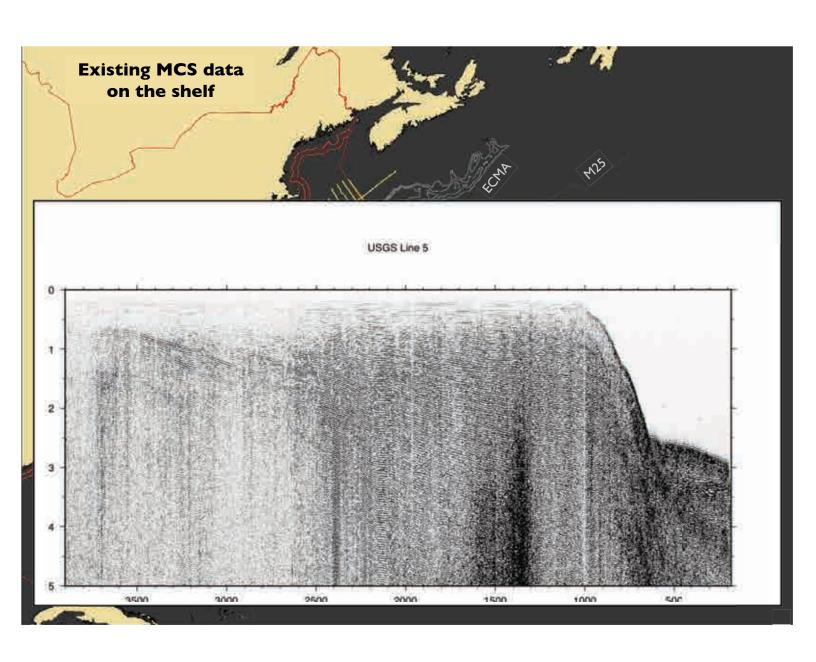
EDGE Line 801: Moho in migrated MCS data

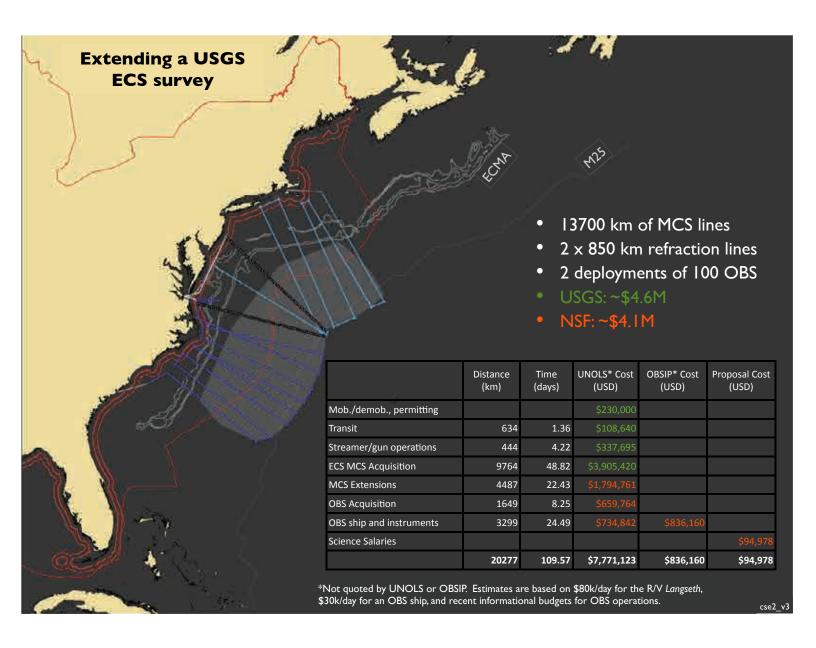


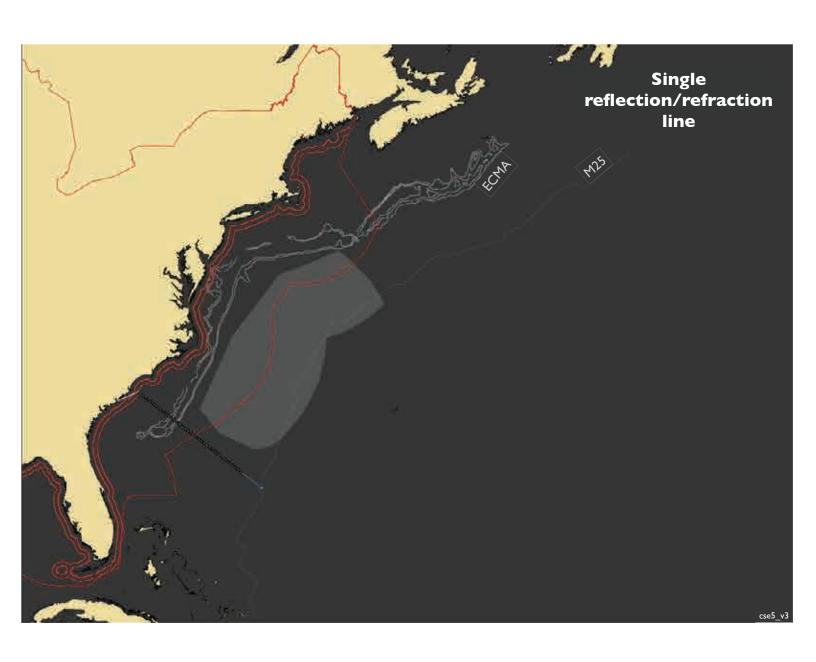
EDGE Line 801: Pre-stack depth migration of PmP recorded by OBH

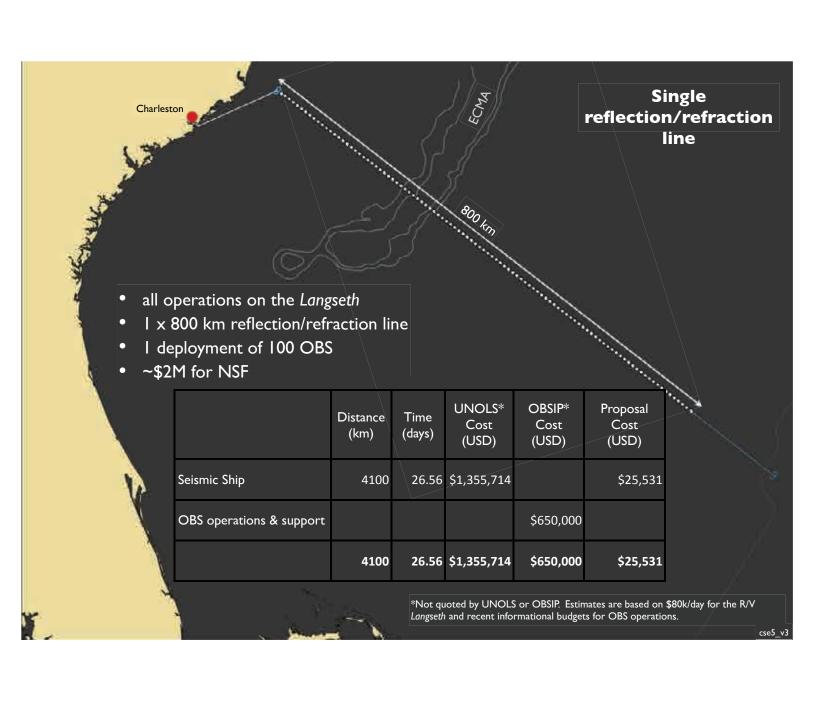


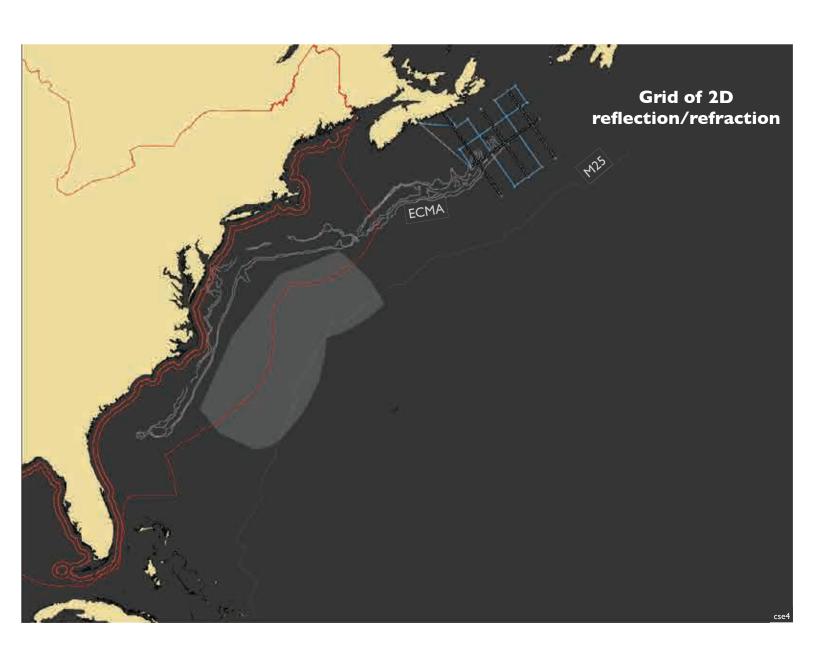
(Lizarralde and Holbrook, 1997)

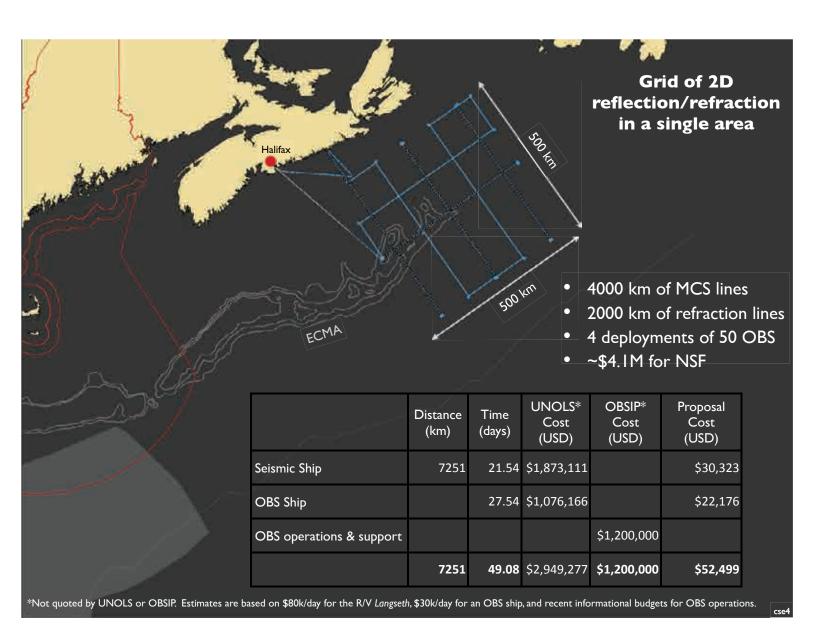












Summary

