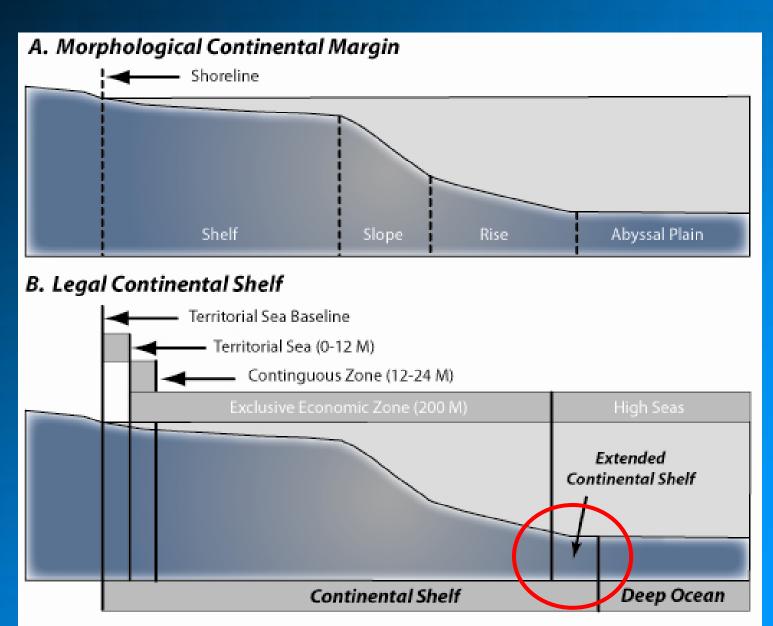
# Arctic 2-Icebreaker Research - U.S. Extended Continental Shelf

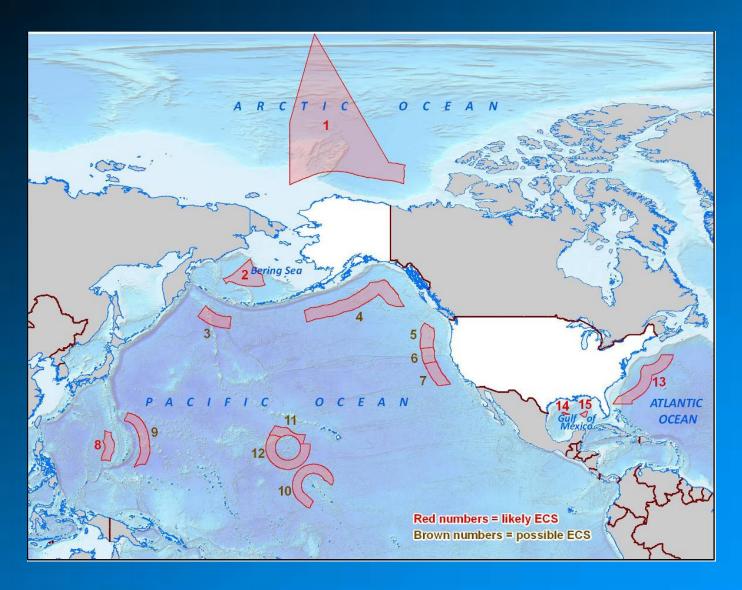


D.R. Hutchinson U.S. Geological Survey 24 June 2009

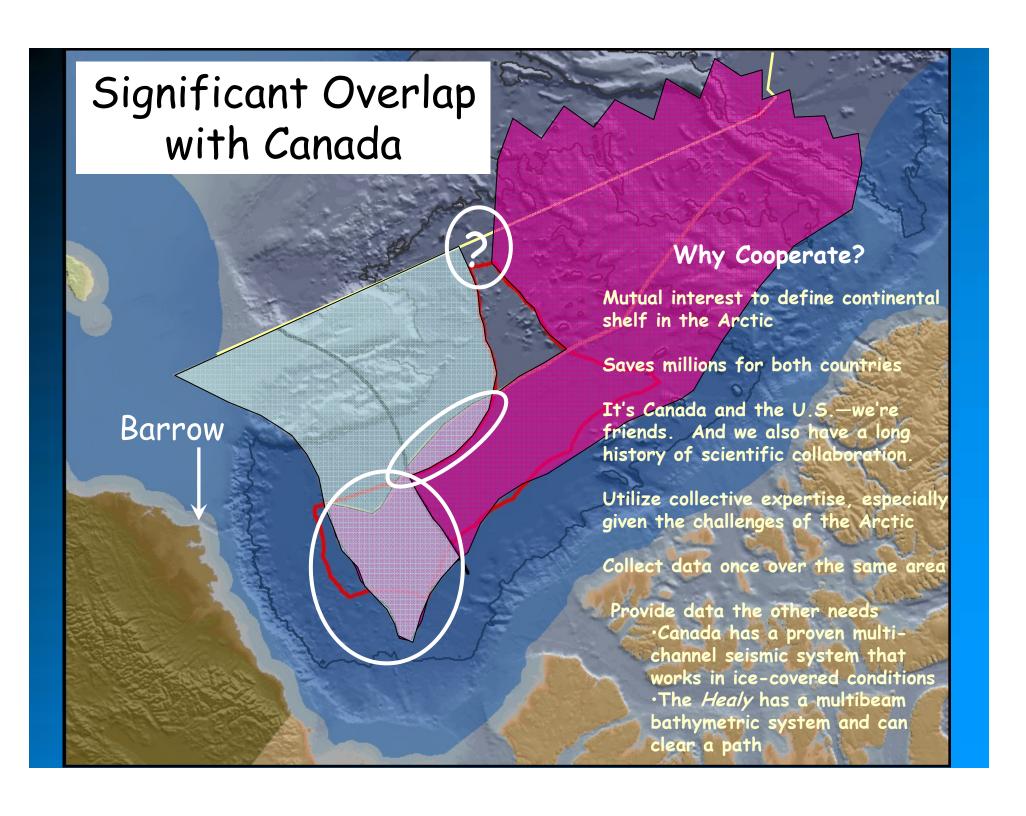


### LOS: Extended Continental Shelf

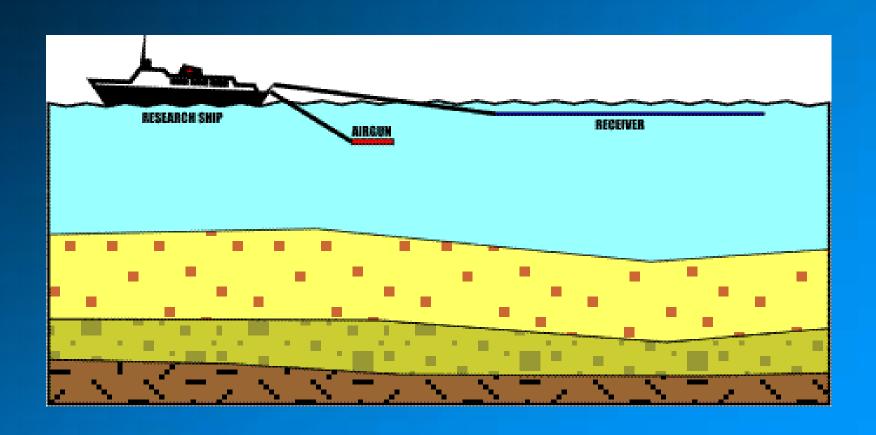




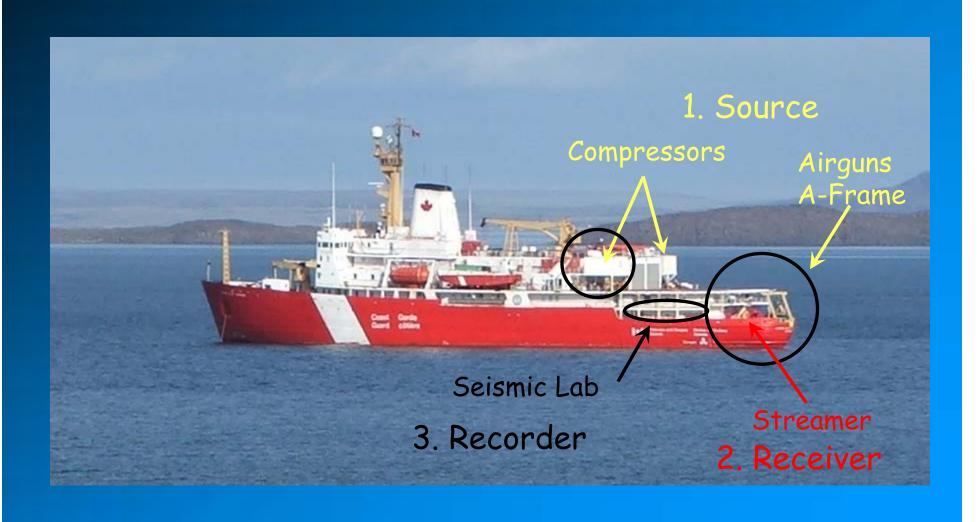
Natural Prolongation 2 Formula Lines 2 Constraint Lines



## Seismic Technique



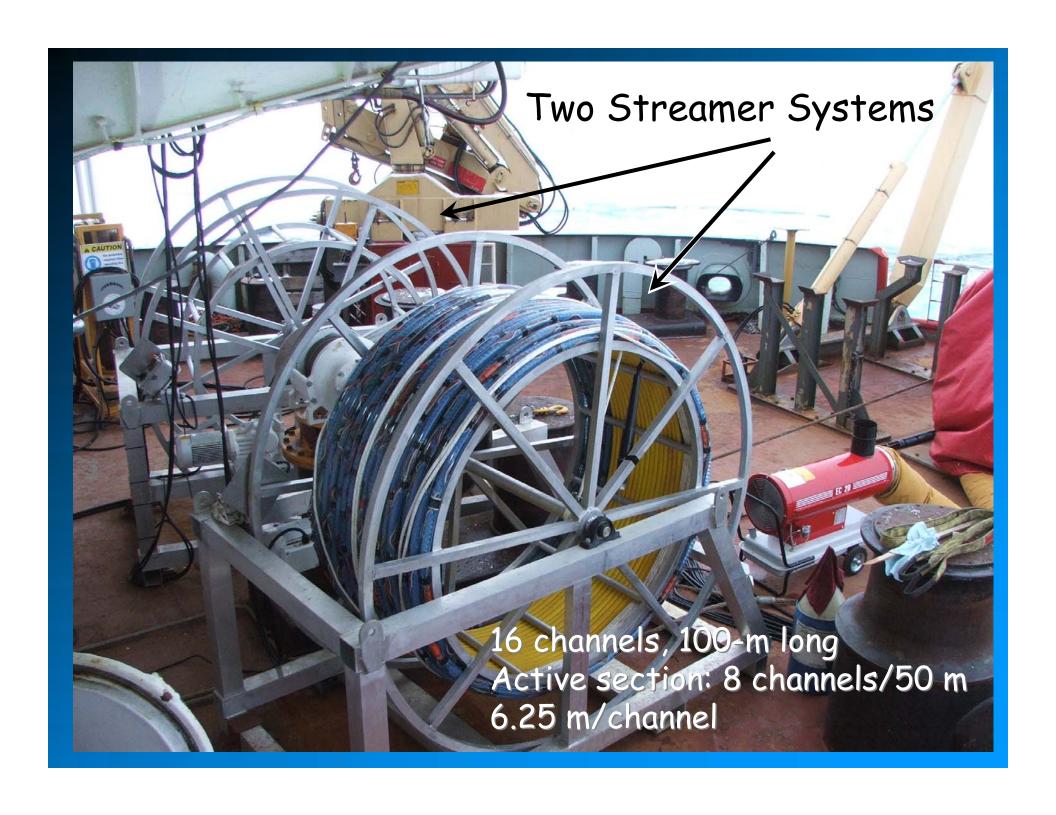
## Louis S. St. Laurent Seismic Acquisition

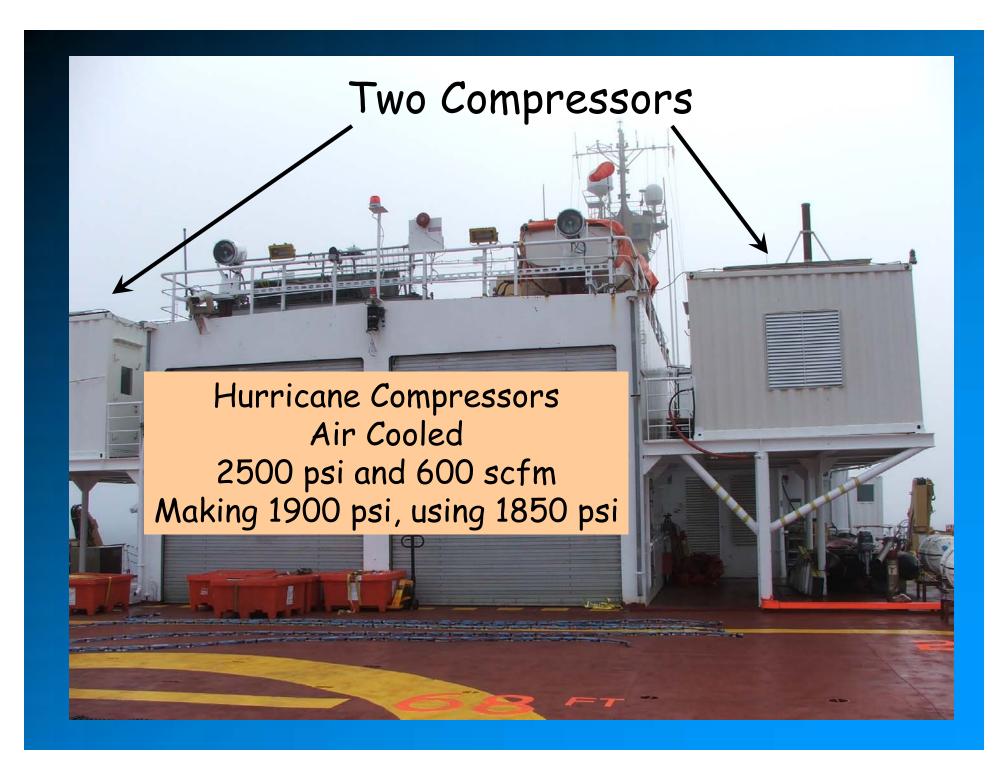


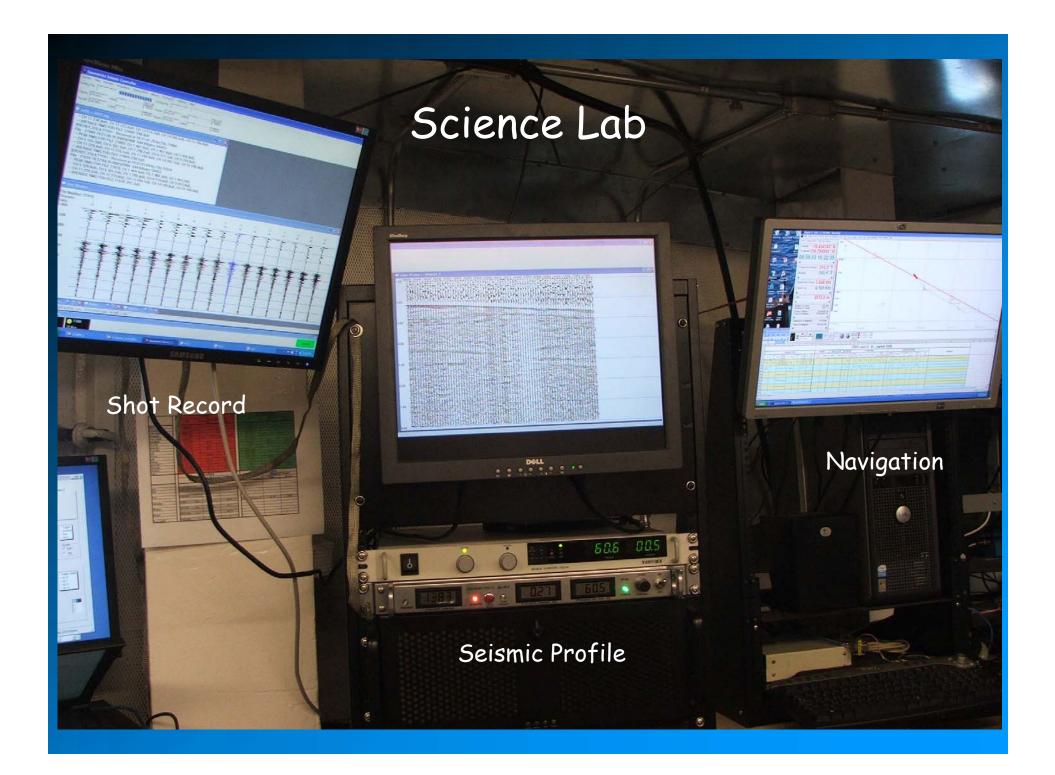


# Airguns Firing





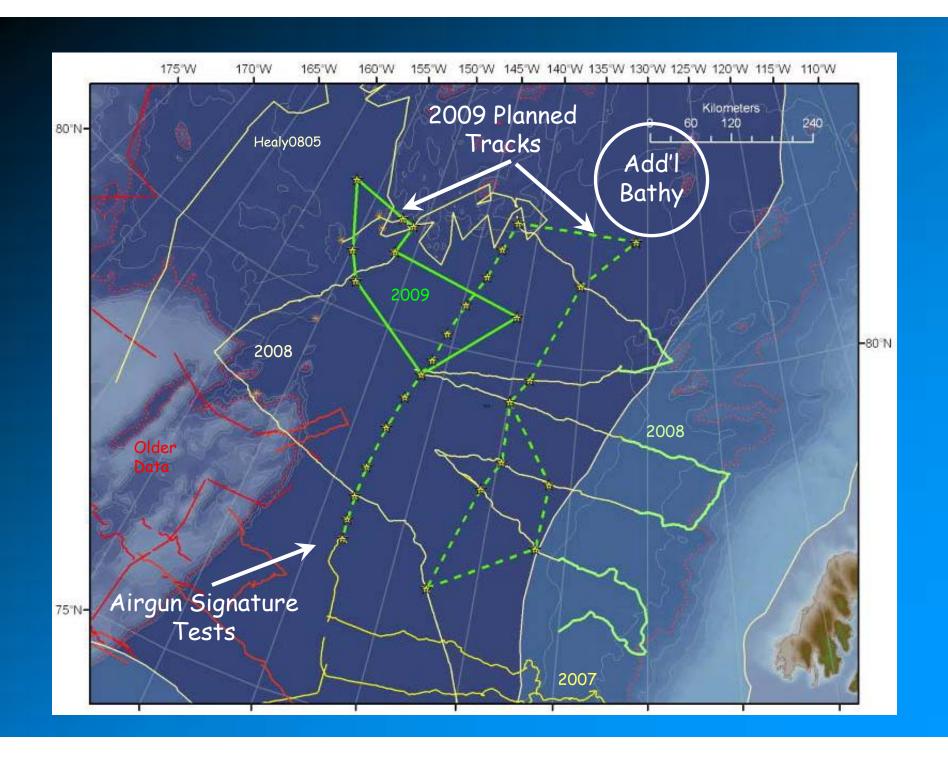






Healy breaking ice ahead of Louis





#### 2010

- · 2 lines in U.S. EEZ, > 2000 m water depth
- · Permitting with NMFS EA/IHA
- Two-ship contingency
- · Line locations depend on success of 2009 + ice conditions!

