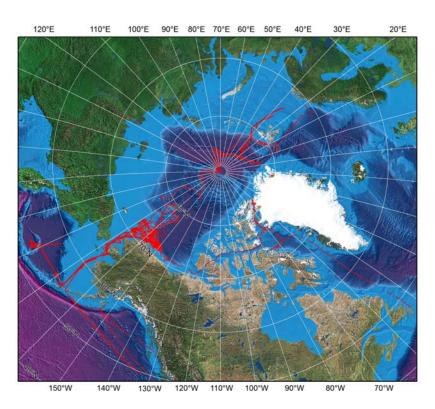
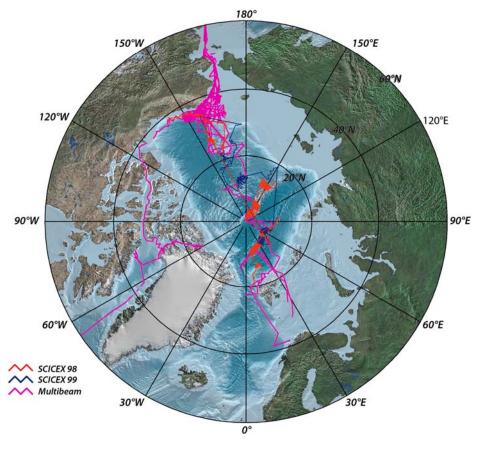
# Bathymetric Data Through 2005



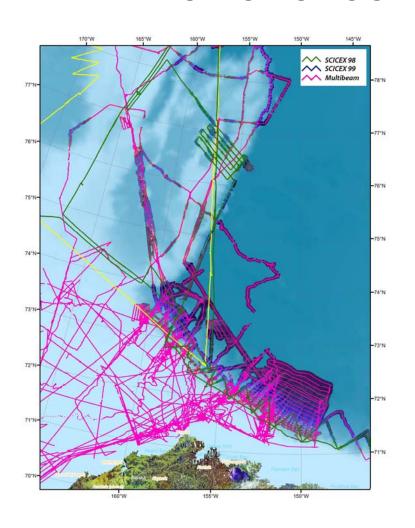
**Ship-based multibeam** 





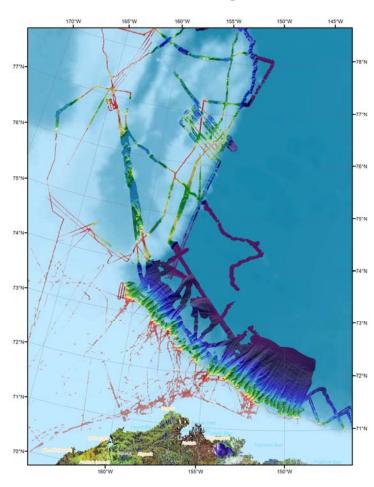
# Alaska Margin Bathymetry

## Power of combined sources



Ship and sub tracks

### **Mapping**



# **Bathymetric Data Priorities ala Edwards**

#### 1. Alpha-Mendeleev Ridges

Fate of Atlantic Intermediate Water layer

#### 2. Chukchi Borderland

- Deep-draft ice in the Arctic
- Northwind Ridge: Critical feature in understanding the formation of Amerasia (Canada) Basin

#### 3. Continental edges of the Lomonosov Ridge (Near data release box)

- Ridge ends will clarify oceanic vs. continental crust
  - EEZ claims
  - Tectonic history of the feature
- "Mid-ocean ridges don't just "end" they turn into some other kind of plate boundary"

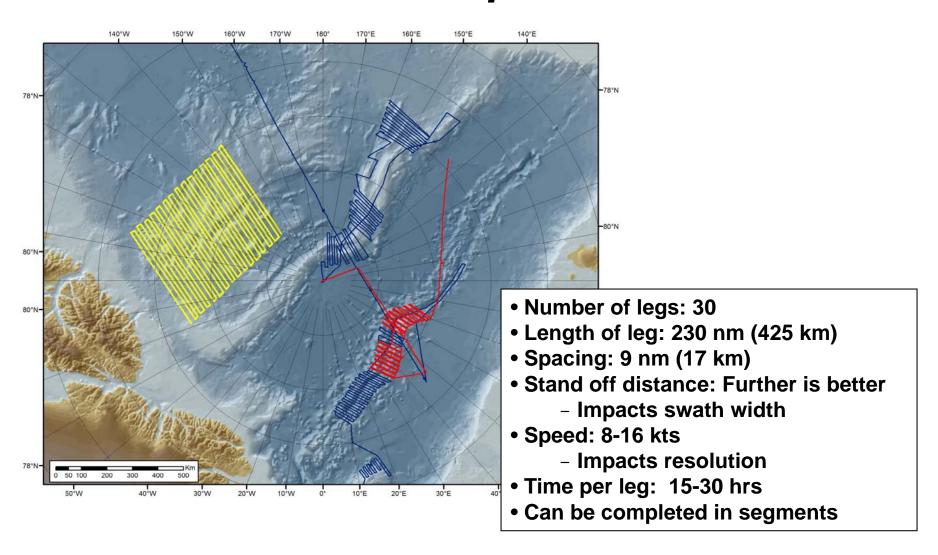
#### 4. Jan Mayen and Yermak Plateaus

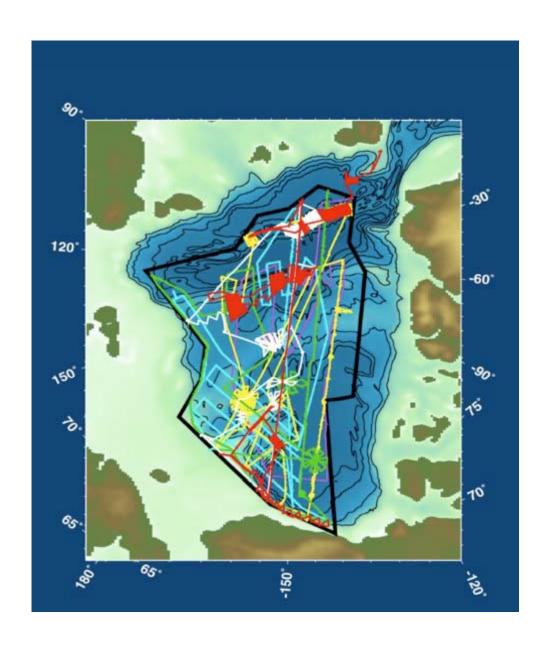
- Are they linked?
- Relation to either initiation of the Gakkel Ridge or part of track of Iceland Hot Spot

#### 5. Continental edges of Gakkel Ridge (Near Siberia and Fram Strait)

Intersection with the Siberian margin

## Alpha Ridge Survey Example





## Gakkel Ridge showing an almost west-east track of GPSnavigated HEALY bathymetry with SCICEX bathymetry (N-S tracks) superimposed

