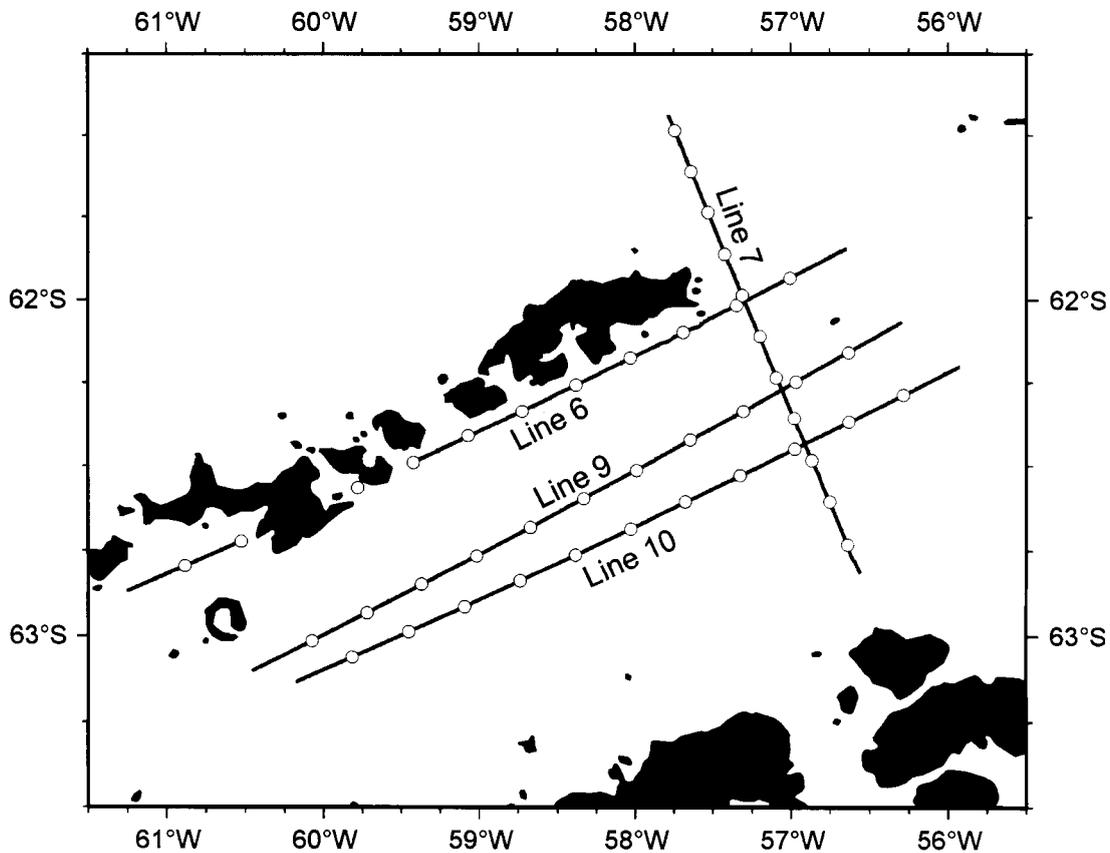


Cruise: NBP00-7A
Ship: RVIB *Nathaniel B. Palmer*
Chief Scientist: Jamie Austin
Start Date, Port: October 27, 2000 Punta Arenas, Chile
End Date, Port: November 18, 2000 Punta Arenas, Chile
Cruise Location: Bransfield Strait, Antarctica
Funding Agency: NSF, Polar Programs OPP-9814041
Source: six-gun, 3000 cu in array



The OBS field effort was designed to collect wide-angle reflection and refraction air gun data to understand the geometry of crustal thinning associated with active extension in Bransfield Strait. Lines 1-5 were collected on cruise NBP00-2 in April-May 2000. Line 1 was reshot during cruise NBP00-7A and renamed Line 7. There is no Line 8 – a decision was made during the cruise to not acquire this line planned for the north side of the South Shetland Islands and to instead acquire both Line 9 and Line 10. All lines were shot with an average shot spacing of ~180 m.

The OBS numbering scheme follows the line numbers: OBSs 601-611 were located on Line 6, OBSs 701-711 on Line 7, OBSs 901-911 on Line 9, and OBSs 1001-1011 on Line 10. All instruments were recovered and recorded data. The OBSs recorded 4 components. Channel 1 – vertical. Channel 2 – radial horizontal. Channel 3 – transverse horizontal. Channel 4 – hydrophone. All instruments have been located and oriented.