

<b>Proposal No.</b>	634-Pre
<b>Short Title</b>	Antarctic Circumpolar Current
<b>Lead Proponent</b>	Peter Barker
<b>Target Type</b>	A/B (Environmental/Passive margin)
<b>SSP Watchdogs</b>	Osamu Takano, Carlota Escutia, and Kirk McIntosh
<b>SSP Proponent (s)</b>	None
<b>Review date</b>	February 13, 2004

**SSP Review:**

It is the first time that 634-Pre is evaluated by the SSP. This proposal seeks to develop a program aiming to determine the time of onset of the Antarctic Circumpolar Current (ACC) and to constrain its effects on paleoclimate. Five primary and three alternative sites are proposed in the Scotia Sea region. Water depths: 1629-3938 m, Penetration: 500-1010 m.

**SSP Consensus:**

According to the proposal, seismic sections and general oceanographic data over the proposed sites are believed to exist and were used to constrain the site location. However, the SSP raised concerns regarding the adequacy of those data set and its quality. More seismic data (e.g., cross-lines over the proposed sites and velocity data) and more detailed sea floor-related data sets including piston cores, swath bathymetry, side scan solar etc. are recommended to be collected and submitted to insure the selection of optimum drill site locations. Because the main objective of the proposal is to detect the onset time of ACC, sufficient site survey data are needed to avoid any stratigraphic gaps such as hiatus and erosion. Numerical modeling results on paleo-ACC can also provide useful information for the site selection. As the SSEP comment suggests, clearer figures of the site locations and modern current systems are recommended to be submitted in the site data package.

**Site Characterization Completeness Classification:**

The SSP encourages the proponents to collect and submit necessary data to the Data Bank.

Proponents may contact the SAS Office <isasoffice@jamstec.go.jp>, panel watchdog Osamu Takano <takano-o@rc.japex.co.jp>, SSP co-chairs André Droxler <andre@rice.edu> and Kyoko Okino <okino@ori.u-tokyo.ac.jp> for additional guidance. For submission of your data, please contact Daniel Quoidbach <daniel@ldeo.columbia.edu> of the Site Survey Data Bank.