

Petrobras Brasil Deep Water Mooring Program

Project Characteristics:

- *Deep Water Mooring Design*
- *Real-time data telemetry*
- *Oceanographic Data Analysis*

Woods Hole Group provided technical mooring design, equipment selection, and oceanographic consulting services to C&C Technologies over a 4-year period for an oceanographic mooring program offshore Brasil.

Nine moorings were deployed over the period of 2008-2012 and were periodically serviced by personnel from the Woods Hole Do Brasil office with support from Woods Hole USA. Woods Hole Group provided technical supervision to C&C personnel for the mooring recovery and redeployment services onboard the C&C vessel.

Woods Hole Group personnel reviewed all data files in the field on recovery and provided detailed data analysis reports after each recovery cruise. These reports included statistical analysis for all major oceanographic parameters measured.

The moorings are deployed in three regions and water depths ranged from 300m to 2300m. Instruments include TRDI 75kHz Long Ranger ADCPs, Nortek Aquadopp single point current meters, and Sea-Bird SBE-37 CTDs. More than 45,000 instrument days were deployed and recovered over the period with 98% data return from all instruments.

Under this contract, Woods Hole Group also designed, built, and deployed a surface telemetry relay buoy that received data from a 75 kHz upward-looking ADCP deployed on a nearby sub-surface mooring via an acoustic modem over ranges of up to 3000m, and re-transmitted this data to shore via a satellite data link.

