British Columbia Transmission Corporation is in the process of upgrading its underwater power transmission cables supplying power to Vancouver Island in the existing Southern Strait of Georgia corridor. One of the obstacles is the Galiano Ridge that resulted in suspension points (off the seabed) for the existing high voltage cables.

Specific requirements included:

- Current profile transects along two lines, during peak tidal flow periods
- Current meter data over a lunar month at a mooring site in 150 m water depth between Galiano Island and the Ridge
- Modeling of currents near Galiano Ridge.