

## Water Quality Measurements

Met Ocean Surveys



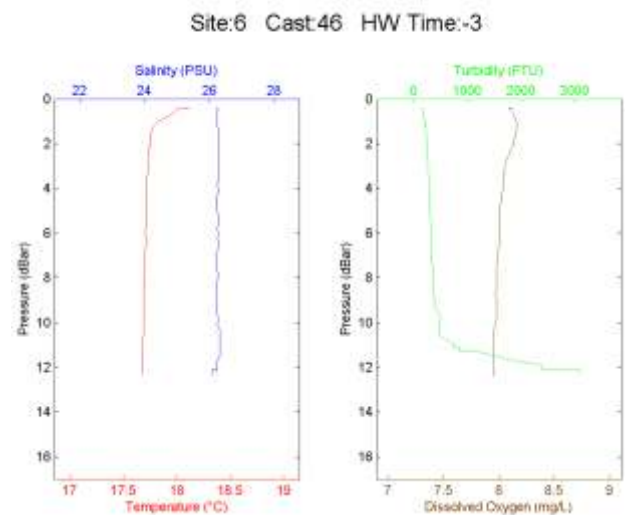
Titan offers clients a versatile, experienced team of surveyors utilising our fleet of specialist near shore vessels and survey equipment to collect water samples meet client specifications. Titan has the resources to offer real time data analysis or to collect water samples for further laboratory testing

### Water Sample Collection

- Typically water samples are taken at set intervals/ water depths at specific locations
- Samples can be collected with surface activated samplers or via high velocity pumps and hoses



Water sample analysis using a JFE Turbidity Sensor



Temperature/Salinity and Dissolved Oxygen/Turbidity Casts

### Water Quality Determinands

- Particle Size Distribution
- Total Suspended Solids/Volatile Suspended Solids
- Total Organic Content
- Nutrients
- Chlorophyll
- Organotins

## Casting:

- Water column measurements are collected by casting multi-parameter sondes through the water column to the seabed and back.
- Typical parameters include:
  - ▶ Dissolved Oxygen
  - ▶ Temperature
  - ▶ Salinity (Conductivity)
  - ▶ Turbidity



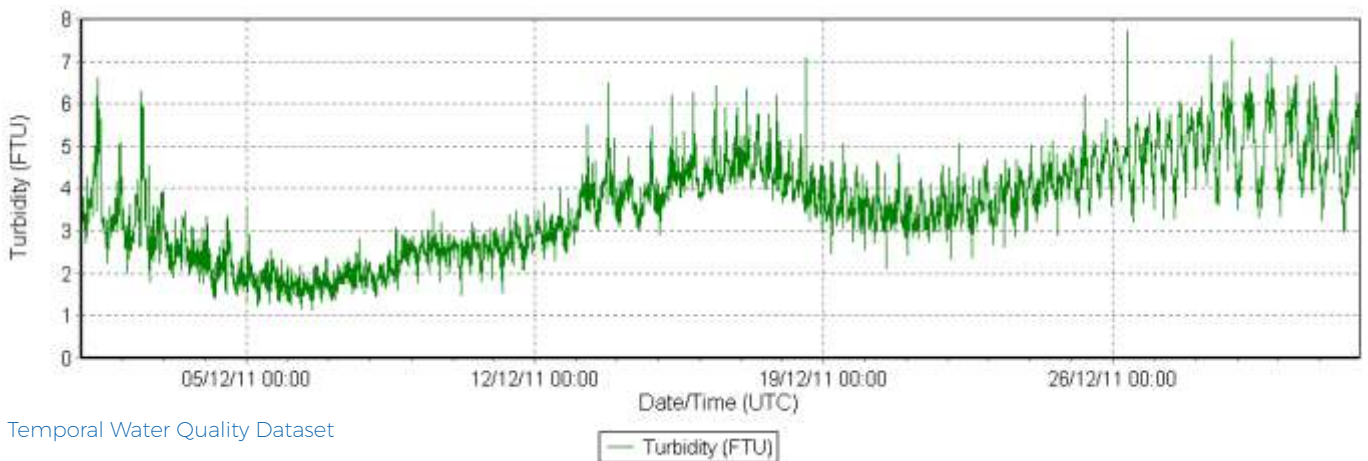
Rosetta Water Sampler with Idronaut 2

## Long Term

- For longer-term projects Titan can deploy instrumentation at fixed depths throughout the water column.
- Measurements are typically made for the same parameters as casts (Dissolved Oxygen, Temperature, Salinity (conductivity) and Turbidity) but produce temporal datasets as shown in the example below



Water Sample Collection



Temporal Water Quality Dataset



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## Survey Equipment:

- Rosetta 3 x 1 litre Water Sampler
- Idronaut Ocean Seven 316 Multi-parameter Probe
- Zebra-Tech D-Opto Logger
- Aquatroll 200 CTD
- High velocity pumps and hoses
- JFE Infinity Turbi
- Aquatic AQUA Logger 210TY