

## Sediment Hydrodynamics Hydrographic, Geophysical and Oceanographic Surveys



The Titan Endeavour

### **Titan offers clients a versatile, experienced team of surveyors utilising our fleet of specialist survey vessels and equipment to undertake sediment and hydrodynamic studies**

Titan has a wealth of experience in monitoring dredging operations as well as undertaking extensive baseline surveys for the UK's biggest port developments, along with large scale model calibration within the Severn Estuary.



Nortek ADV

### Application of Services

- Real time autonomous monitoring of sediment plumes using a range of bespoke mooring designs
- Fieldwork campaigns conducted seasonally and/or tidally to measure a range of parameters
- Ability to survey fluvial and estuarine environments
- Specialists in vessel mounted Acoustic Doppler Current Profile surveys, providing resolute and accurate current profiles
- In house laboratory for instrument calibration and site specific sediment concentration conversions

### Instrumentation

- JFE Infinity-Turbi
- Idronaut Ocean Seven 316 Multi-parameter probe
- Aquatec AQUAlogger 210TY
- RDI 600 kHz with bottom tracking functionality
- Aquatroll 200

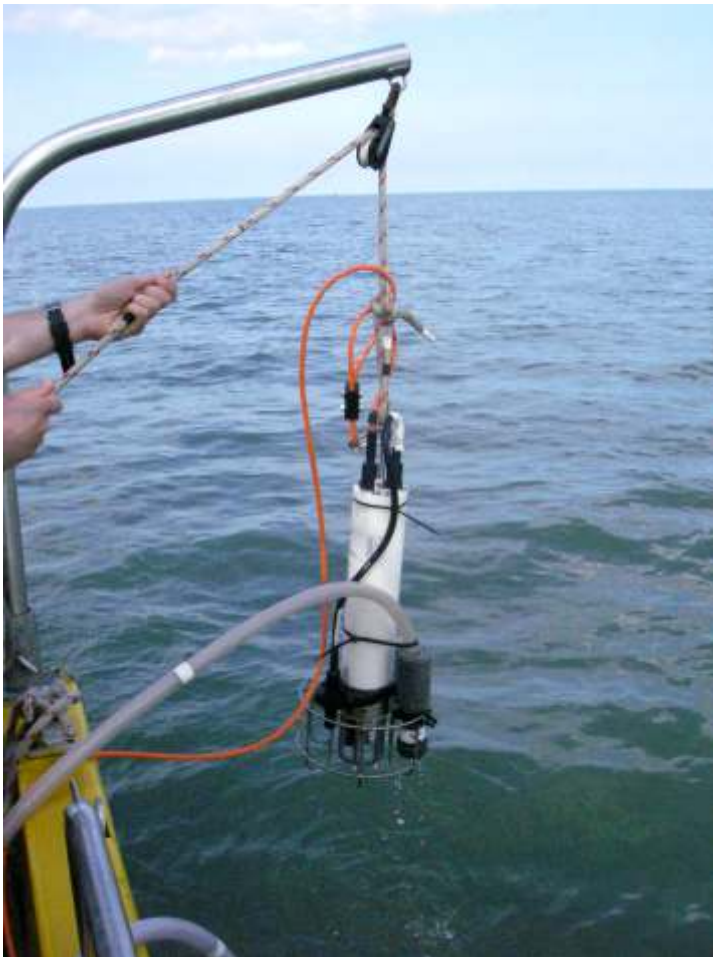


Side looking ADCP and Argus silt meter

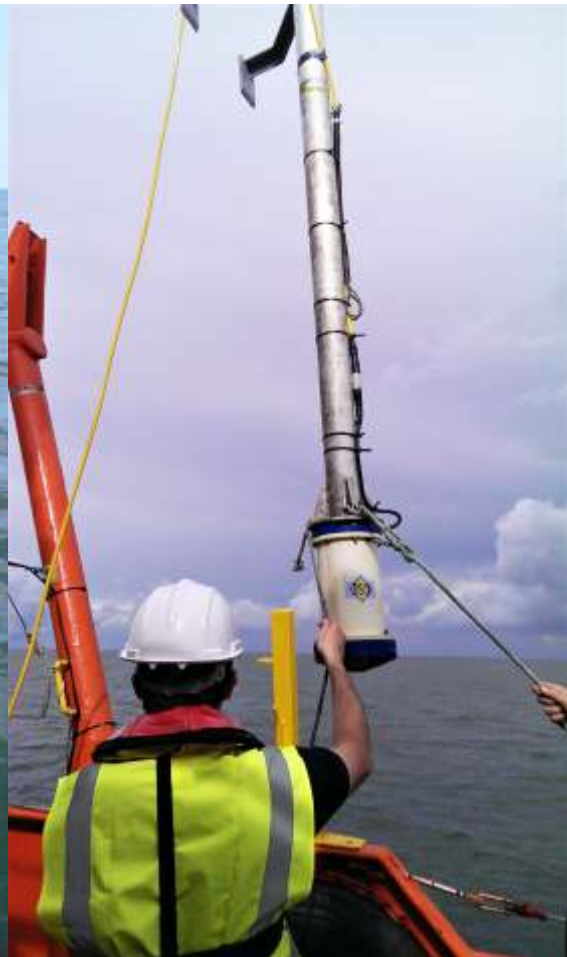
## Post Processing:

Titan performs all data processing in-house including analysis of spatial and temporal data trends with a range of reporting options to meet all client requirements utilising:

- Seazone Geotemporal metocean database management and processing software allowing comparison of all recorded parameters for relationship identification including turbidity, waves, currents and tides.
- GIS for dye dispersion presentation and charting.



Idronaut Profiler



Vessel mounted ADCP being prepared for deployment



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