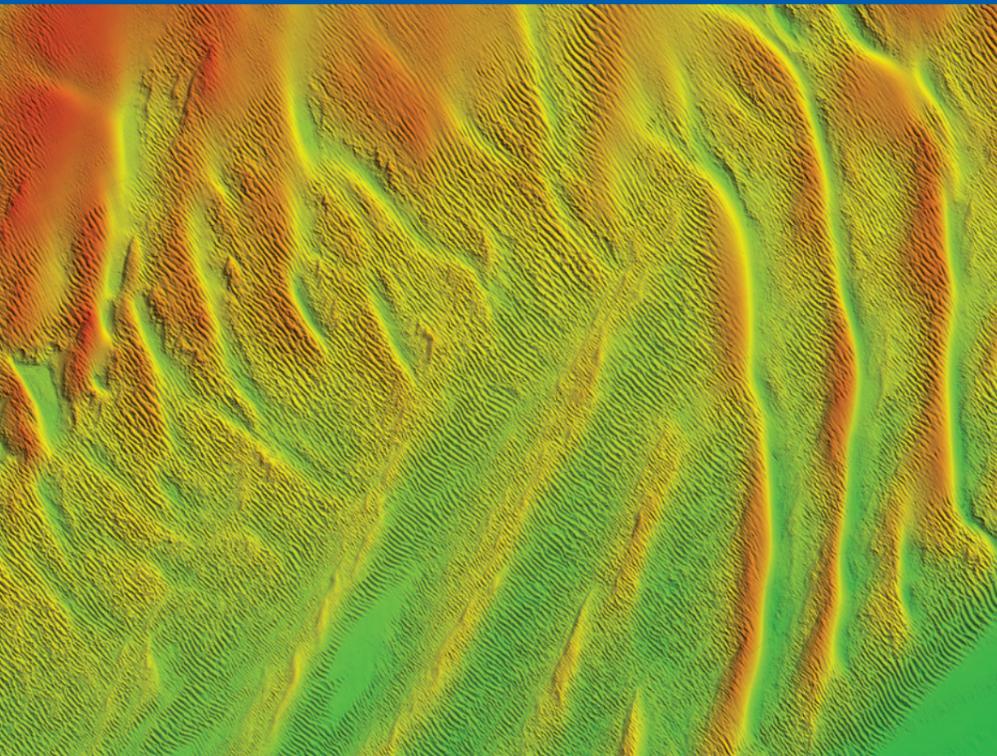


Coastal and Nearshore Services





Titan Environmental Surveys Ltd, part of the Gardline Group, are one of the UK's leading environmental survey and monitoring contractors providing a range of marine, coastal and water quality surveys. With over 30 years of experience in surveying throughout the UK and worldwide, our skills ensure compliance with stringent legislation and informed decisions on engineering investment.

Titan can offer a flexible approach to coastal and nearshore services, which include hydrographic, geophysical, oceanographic and environmental surveys. Titan operates a specialised fleet of vessels, including custom built survey catamarans that are ideal for shallow water survey operations. The extensive array of equipment Titan own allows the company to offer a large array of services, from land based topographical surveys to marine surveys 60 miles offshore.

Titan also offer freshwater surveys that include reservoir and river surveys and hydrometrics.

Titans' capabilities incorporate a number of industry sectors, which include the oil and gas and offshore renewables sectors, aggregate dredging industry, power stations, governmental and public organisations and the water industry.

Titan has highly experienced and skilled personnel, who combine their skills with a comprehensive array of instrumentation for the safe and appropriate deployment of equipment in a harsh environment to provide the highest quality data.

Titan Vessels

All of Titans vessels are equipped with up to date safety equipment and all staff have relevant training for working at sea to ensure the highest level of safety. Each vessel operates a primary and secondary navigation system and singlebeam/multibeam echosounder systems.

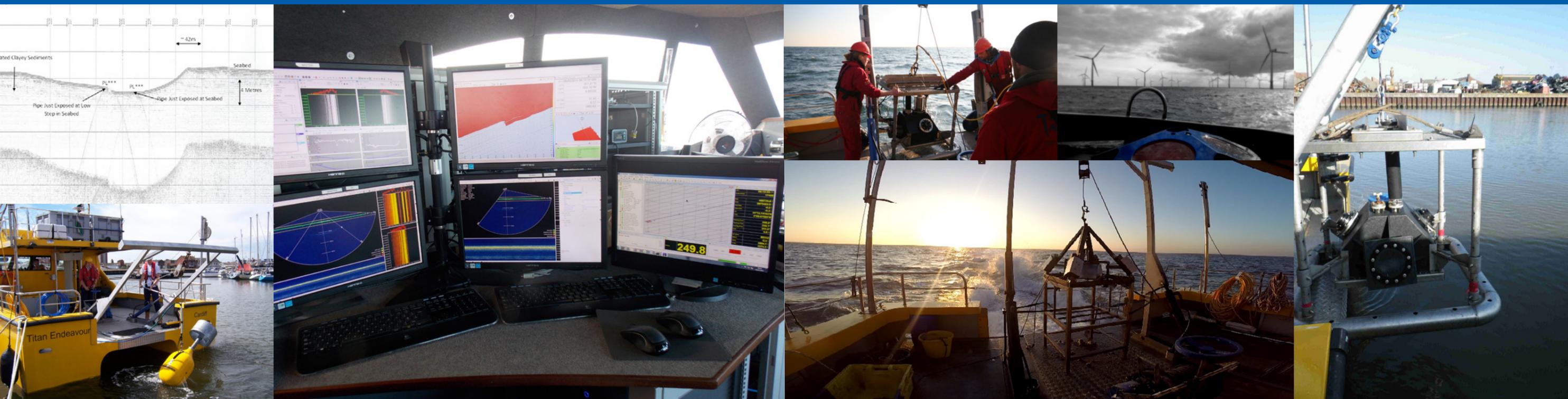
MV Titan Discovery
Alicat South Boat Catamaran
 Length: 13m
 Draught: 1.2m
 Moonpool deployment of MBES, Hydraulic 'A' frame, with 1.5 tonne winch

MV Titan Endeavour
Powerglide 46 Catamaran
 Length: 15m
 Draught: 1.2m
 Moonpool deployment of MBES, Hydraulic 'A' frame, with 1.5 tonne winch

MV Titan Explorer
Cheetah Catamaran
 Length: 10m
 Draught: 1.2m
 Moonpool deployment of MBES, fixed 'A' frame, sidemounts

MV Titan Surveyor
Cheetah Catamaran
 Length: 7.9m
 Draught: 0.6m
 Port and starboard extendable derricks, sidemount

MV Titan Voyager
Cheetah Catamaran
 Length: 7.9m
 Draught: 0.6m
 Port and starboard extendable derricks, sidemount



Hydrographic and Geophysical Surveys

Titan has extensive experience in challenging nearshore, estuarine and fresh water environments on a global scale. Titan provides clients with detailed information on seabed bathymetry, seabed sediments and features, shallow geology, and essential data for numerical models.

Hydrography and Geophysics are central to any site investigation or seabed mapping project. A hydrographic survey focuses on obtaining high quality bathymetric data of the seabed. Whereas the geophysical survey involves a number of data requirements; water depths, seabed topography, seabed features, sediments, shallow geology, and identification of any man-made and naturally occurring hazards. The data provides a precise and clear overview of a site, allowing construction planning and post construction investigations.

The acquisition of hydrographic and geophysical data primarily uses a range of acoustic-based instruments to characterise the seabed, shallow soils and geology. Ground truthing methods are also available during a geophysical survey.

Our team of surveyors are highly trained in the most up to date surveying techniques as well as offering high quality post processing and analysis of all data.

What we offer

- / IHO Special Order 1a Standard Hydrographic Surveys
- / Single Beam Surveys
- / Multibeam/Swathe Bathymetry Surveys
- / Sidescan Sonar Surveys
- / Magnetometer Surveys
- / Sub-bottom Profiling
- / Beach Topographical Surveys
- / Ground Truthing

Our systems

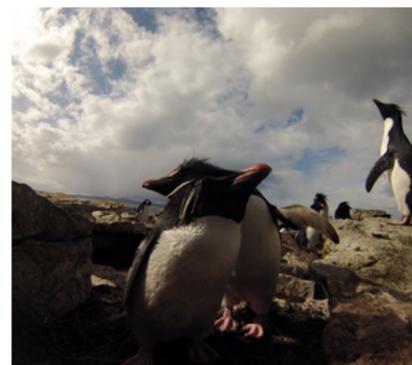
- / Shallow water swathe bathymetry systems high resolution (200-400khz)
- / Single channel sub-bottom profiler systems including pinger, chirp and boomer.
- / Sidescan sonar systems from 100khz - 1600khz.
- / Magnetometer systems
- / Surface and sub-surface systems.
- / Acquisition and data storage systems.
- / Onboard data processing, interpretation and reporting systems

Our experience

- / Pre and Post Construction Surveys of OWF
- / Re-charting Surveys
- / Habitat Mapping
- / Pipeline and Cable Route Planning
- / Beach Landfall Surveys
- / Aggregate Resource Availability Surveys
- / Nearshore Marine Pre and Post Construction Surveys
- / UXO Surveys
- / Clearance Surveys for Port and Harbour Construction
- / Freshwater Reservoir Surveys

Met Ocean Surveys

Titan are a leading UK contractor in nearshore oceanographic surveying, with an excellent track record of work throughout the UK and overseas. Titan's close involvement with scheme project managers, mathematical modellers and legislative drivers of coastal studies means we have developed a unique understanding of survey strategies and objectives. The highly skilled personnel at Titan ensure compliance with stringent legislation and work to the highest standard of health and safety.



Titan are able to undertake hydrodynamic surveys to determine water body movements around the coast for use in engineering design and monitoring surveys.

This includes:

- / Measuring Currents - Moving Vessel, Fixed Station ADCP
- / Waves - Wave Rider Buoys, Surface Tracking AWAC's
- / Tides - Pressure and Tide Gauges
- / Dispersion and Dilution - Drogues, Thermal Plume and Dye Tracking
- / Real-time Meteorological Data
- / Sediment Dynamics
- / Dredge Monitoring
- / Water Quality Surveys - Multi-parameter Profiling and Sampling

Large engineering projects often require the delivery of Met Ocean data in real time to provide information for operational planning. Titan have developed an online data telemetry system that allows subsea instruments to transmit data, both from the water column or the sea floor.

Titan uses specialist software, Seazone GeoTemporal Editor, for the management, analysis and presentation of data. The software allows comparison between various parameters measured with various instruments including current, wave and meteorological datasets. GIS software is used for charting purposes of synoptic data and can be supplied in suitable formats as required by clients.

Our experience

- / Water Utilities
- / Environmental Consultancies
- / Oil & Gas Companies
- / Port and Harbour Authorities
- / Construction Industry
- / Engineering Consultancies
- / Dredging Companies
- / Telecommunications Industry
- / Environment Regulators
- / Renewable Energy Companies
- / Government Agencies



Environmental Surveys

Titan are able to offer environmental surveys that range from marine and terrestrial ecological surveys to river and water quality surveys.

Marine Ecological Surveys

Engineering schemes typically require an environmental impact assessment which includes an assessment of the macro benthic community and sediment quality in the study area. Titan Surveys have a wealth of experienced and qualified personnel capable of designing, collecting and interpreting benthic and marine ecological surveys.

We offer:

- / Benthic grab and trawl sampling
- / Multi-variant statistical techniques
- / Underwater video photography
- / Flora and Fauna Identification

Waste Water and Riverine Surveys

Titan's specialist Environmental survey team use state of the art technology to collect accurate data. Due to stringent environmental legislation, collection of good quality data to aid the efficient design, commissioning and operation of water infrastructure and wastewater treatment facilities is paramount. Titan's team are able to advise clients on the best course of action and by using the best available equipment to obtain the required measurements. Their in-house software allows rapid calculation and presentation of results. Titan are able to collect flow, water quality and ecological data for a variety of environments, including providing data for numerical modelling.

Capabilities:

- / Wastewater treatment works flow and load surveys
- / Flow monitoring
- / Stage discharge relationship production
- / Influent loading assessment
- / Treatment works performance assessment
- / Design of new or improved treatment facilities
- / Impact assessment of discharges
- / Bathing water compliance
- / Tracer Surveys
- / Discharge consent monitoring
- / Urban Waste Water Treatment Consent Monitoring
- / Self-Monitoring Schemes
- / Ecological Studies
- / Aesthetic assessments
- / Drainage area studies
- / Water Resources evaluation
- / Soil Sampling
- / Distribution system condition assessment

Telemetered Data Systems

Titan are highly experienced in providing telemetered data systems as a solution for almost any environmental monitoring requirement. With in-house design capability, data from monitoring outstations can be displayed to any required level of detail on the web.

Capabilities:

- / Event triggered sampling
- / Temperature monitoring networks
- / Pumping station operation monitoring
- / Rainfall monitoring
- / Flow monitoring
- / Tide Gauge and Surge Monitoring





For more details please contact:
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For more information on our services
please scan this QR target

