

Aims & Scope



GHyCoP addresses a wide range of complex services and products related to or based on hydrography, such as

- Expert advice and support
- Scientific investigations and marine research
- Hydrographic surveys and related services
- Geo and earth observation data services
- Equipment and instrumentation supply
- Development of methods
- Implementation of procedures
- Training and education

For applications like

- Continental shelf claims (UNCLOS Art. 76)
- Ensuring safety and efficiency of navigation
- Off-shore activities, e.g. laying pipes or cables
- Coastal protection and coastal management
- Establishment, enhancement and modernisation of hydrographic services (SOLAS V Reg. 9)
- Charter, outfitting, design and construction of research and survey vessels

GHyCoP fosters and facilitates:

- Initialisation, development and implementation of large multi-national and/or multi-disciplinary hydrographic and marine technology projects (e.g. EEZ surveys, infrastructure developments)
- Institutional strengthening and capacity building
- Transfer of technology and knowledge within economic, marine technology and research co-operation programmes
- Co-operation between countries as well as between the public and private sectors

We understand hydrography

In its widest sense, hydrography comprises applied oceanography, marine biology, chemistry, geology, geophysics and geodesy. In short: the methods and technology needed to acquire the necessary information for sustainable management, development, protection and use of marine and coastal environments.

About us



GHyCoP is a public-private-partnership of German key players in hydrography and applied geo-sciences. The pool was founded in January 2004 and includes companies ranging from small to big ones, scientific institutions and government agencies. The association incorporates system and equipment manufacturers, service providers, consultancies and ship builders.

The composition of **GHyCoP** facilitates flexible establishment of project groups for a wide range of requirements. **GHyCoP** is supported by important government agencies and institutions such as:

- BSH – Federal Maritime and Hydrographic Agency, Rostock/ Hamburg
- BGR – Federal Institute for Geosciences and Natural Resources, Hannover
- An Advisory Board of high-rank representatives from Federation and Federal State Ministries, marine science centres and universities

GHyCoP builds on certain German capacities, capabilities and strengths, in particular:

- High-quality and reliable services using proven and efficient technology
- Customer orientation – services tailored to the needs of the user
- High scientific and technological standards
- Excellent training and education facilities
- Experience in environmentally friendly products and services and expertise for sustainable development of the marine sectors

GHyCoP

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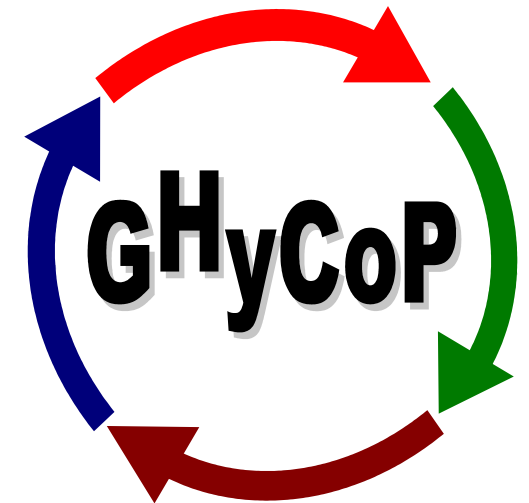
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GHyCoP

a German
Public-Private-
Partnership



the
one-stop-contact
in hydrography and
applied geo-sciences

**German Hydrographic
Consultancy Pool w.V.**

Services



Hydrographic surveys

Planning and realization of surveys, measurement campaigns and research cruises such as e.g.:

- Complete surveys covering the full scope and range of EEZ and UNCLOS Art. 76 requirements (e.g. bathymetry, geophysics, sediment determination of shelf borders)
- Baseline data acquisition by tailored surveys and research cruises
- Geotechnical surveys and investigations for offshore energy production and mineral exploration, windfarms, cable and pipe laying, determination of soil properties and foundation stability, wreck and ammunition searches
- Installation and operation of marine monitoring networks for long-term observation
- Water and sediment sampling and analyses
- Precise positioning and navigation services (above and under water)
- Underwater inspections and work (ROV, diving)
- Provision of supervisors and client representatives



Specification, design, construction, manufacturing and supply services

Data processing and evaluation

- **GHyCoP** members offer a wide range of software for acquisition, processing and evaluation of hydrographic and other earth observation data.

Simulation and modelling

- Operational forecast and warning models

Consultancy and studies

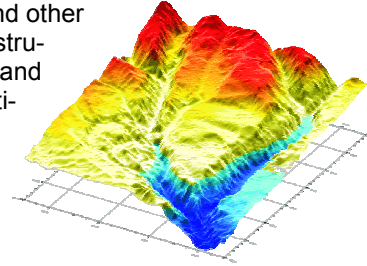
Products



GHyCoP, its members and their partners offer a broad range of products and equipment for hydrographic surveys and affiliated work, e.g.:

Instrumentation and measurement systems

- Single- and multi-beam echosounders
- Sonar systems and other hydro-acoustic instruments for bottom and sub-bottom investigations (landers, OBS, boomers, sparkers, seismic equipment)
- Systems and platforms for underwater inspection (ROV, AUV, diving systems)
- Sampling equipment for water and sediments
- Surface and underwater positioning equipment
- Oceanographic equipment
- Specialised and customer designed instrumentation and equipment
- Monitoring equipment and combined / integrated systems



Ships and deck equipment

- Survey, research and utility vessels
- Winches and handling systems (e.g. traction and drum winches, specialised cranes, heave and motion compensators, A-frames)

Information and control systems

- Vessel traffic systems for marine and inland waters
- Marine and inland water information systems

Software development and information technology services

- Software for acquisition, processing and evaluation of hydrographic and other earth observation data

Training & Education



The **GHyCoP** Training & Education Centre Hydrography (TECH-AWI) is the pool's Hydrography Competence Centre offering customized training courses and lectures in hydrography.



Training activities range from one-day-introduction and refresher courses to deep hydrography training on selected topics of several days duration and include high-tech curricula for operators and surveyors. Course schedules, topics, complexity, exercises and practical work are adapted to demands and needs of our trainees and customers.

The network of **GHyCoP** allows to appropriately linking application-oriented training-on-the-job with specialized courses in theory. **GHyCoP** members meet all areas of expertise and are integrated in the training and education qualifications as

- Hydrographic surveys, measurement methods and systems
- Integration of hydrographic data in support of maritime decisions and policies
- Training and education with respect to the United Nations Convention on Law of the Sea (UNCLOS)
- Port security (SOLAS), port monitoring and integrated coastal zone management (ICZM)

