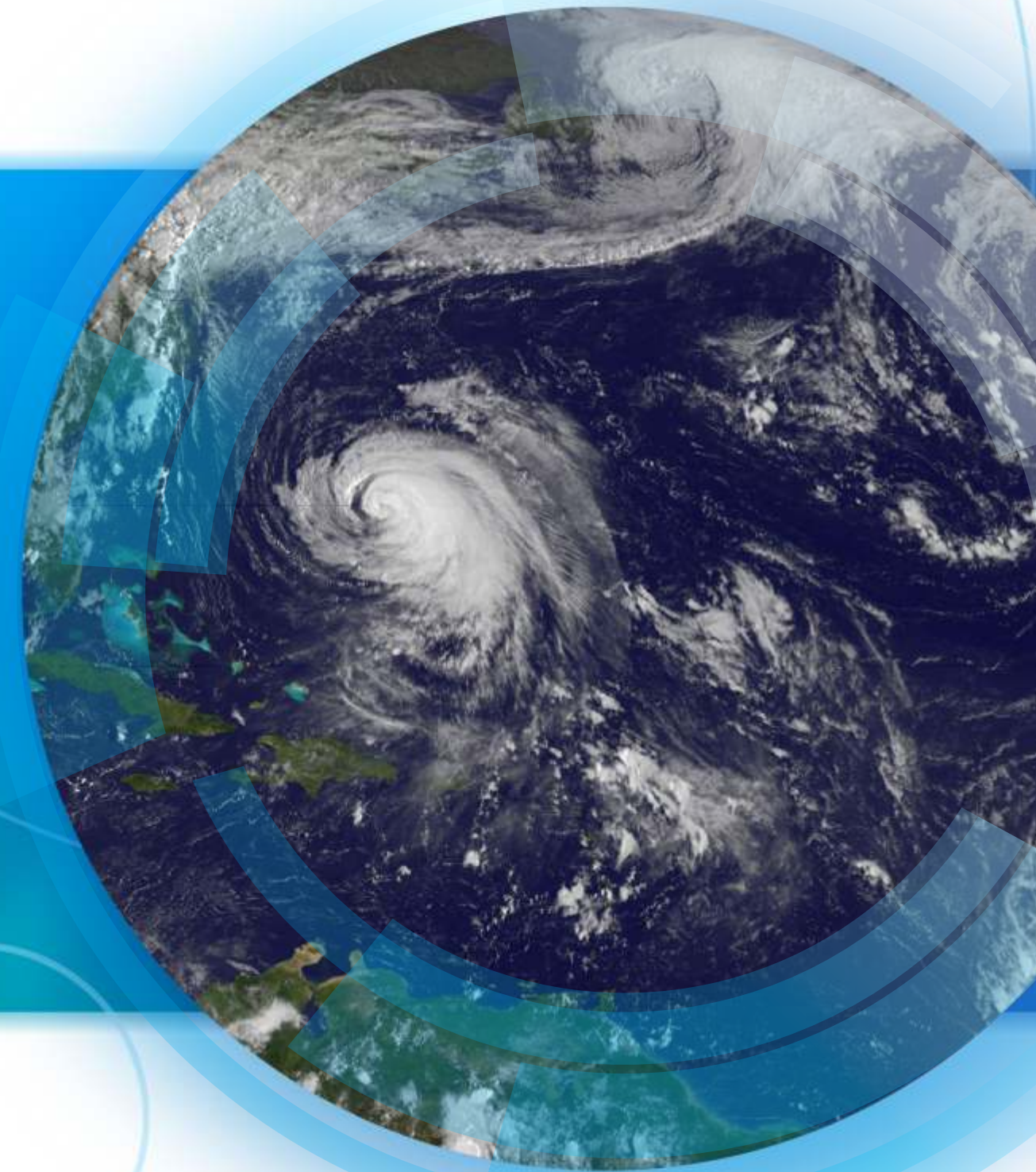


metocean specialist



contact information

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www.bwgeohydromatics.com



The Company

BWgeohydromatics is an Indonesian based enterprise specializing in delivering meteorological and oceanographic (metocean) information and knowledge with specific emphasis in the Indonesian water and the South East Asian region. We possess strong local knowledge and effective access to the region we are working in. BWgeohydromatics is founded as research spin-off company located in Bandung, Indonesia. The company collaborates closely with relevant experts and specialists in their fields, particularly hydrography, physical oceanography, meteorology, sediment transport, and navigation.



What We Do

BWgeohydromatics is delivering clear 'picture' of various parameter and ranges of marine physical environmental factors which are of substantial to our clients' investments. We will produce this 'picture' as metocean information and knowledge of a given site of interest and present them as standard hardcopy report, offline data base retrieval system with graphical user interface, regular push-mail report, or on-line access to our operational metocean system, including involvement of front line service.



Our Team

BWgeohydromatics' key people are entrepreneur researchers, who have been accumulating knowledge in theoretical and practical spheres of applications of various disciplines covering coastal engineering, environmental science, physical geography, hydrography, and oceanography. Experiments, diversity in perspective and multi-disciplinary set of mind are our beliefs in delivering innovative and creative solutions to our client's problems. To date, our key team members are well trained and exposed physical oceanographers with strong support from computing and information technology team.



Our Mission

BWgeohydromatics' mission is to provide support to the improvement of accuracy, security, and safety of coastal and offshore design, planning, and investment.



Service Overview

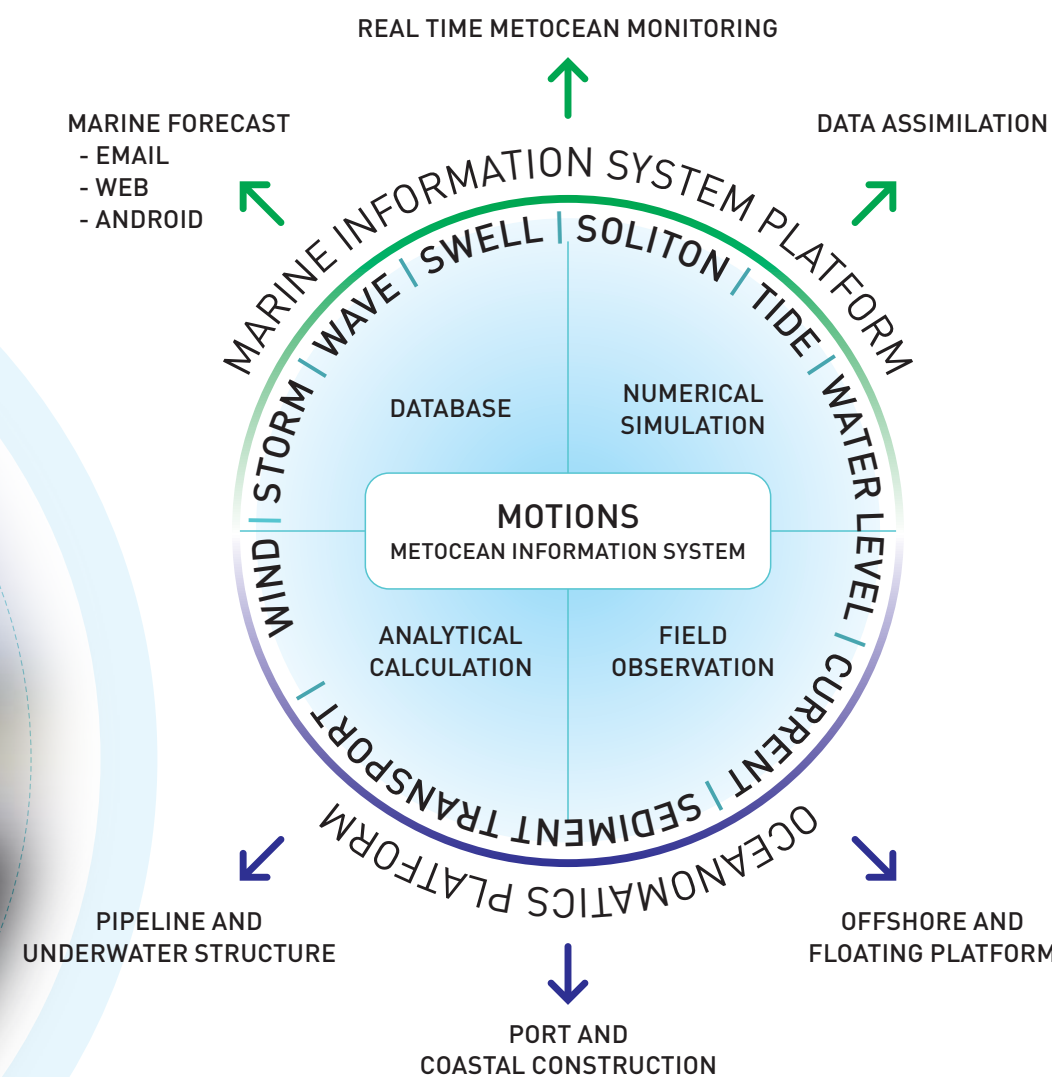
A specialized competence of the company is the capability to involve state-of-the-art scientific methods and novel techniques in improving the reliability and merit of marine environmental information.

Our core of competences are based on long experience and academic training of its personnel in dealing with studies of mean and extreme values of wind, wave, current, and tide, for the purpose of design criteria or front end engineering of fix or floating structures and underwater constructions, as well as real-time and forecast systems for planning and monitoring of sea-state sensitive operations.



scope of services

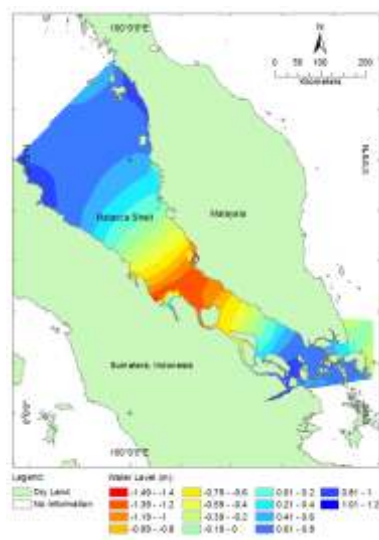
ONLINE SERVICES METOCEAN FORECAST AND REAL TIME REPORT



OFFLINE SERVICES METOCEAN DESIGN CRITERIA REPORT

projects & services portofolio

BWgeohydromatics provides metocean consultancy to support all marine activities in particular oil and gas industry from planning to operation and safety, both offline and online.



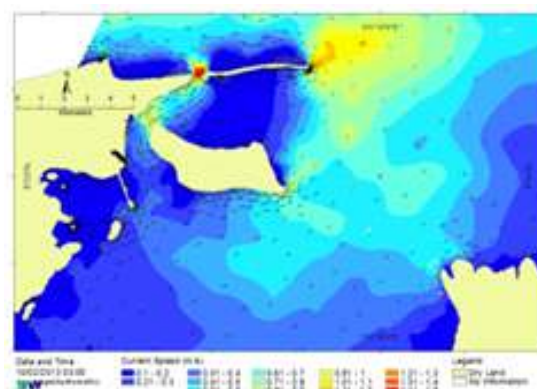
OFFSHORE AND FLOATING PLATFORM

Metocean design criteria is required for offshore and floating platform design. One of the metocean parameters required for the study is storm surge. A storm surge is a change in sea level or tsunami-like that is caused by a storm. The change in sea level can be as a positive storm surge when it rises over the normal level. It also can be as a negative storm surge when the sea level drops lower than water level. The following is map of water level simulation along Malacca Strait.



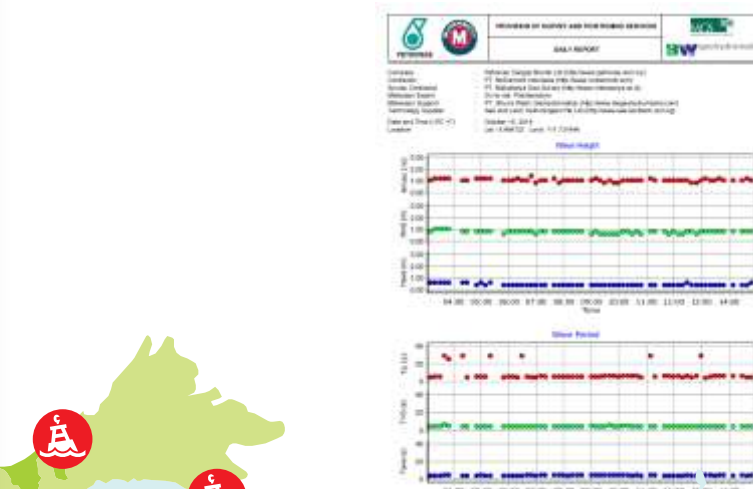
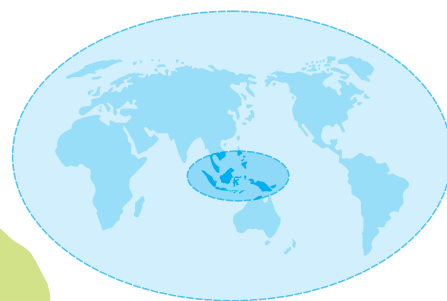
PIPELINE AND UNDERWATER STRUCTURE

Current circulation gives a large impact to pipeline and underwater structure. BWgeohydromatics could provides the data by performing three dimensional current simulation. The morphological and bathymetry of each study area are unique. The current simulation that we have prepared could be customized according to clients' needs. The following is a map of current return period to support pipeline design in Singapore Strait.

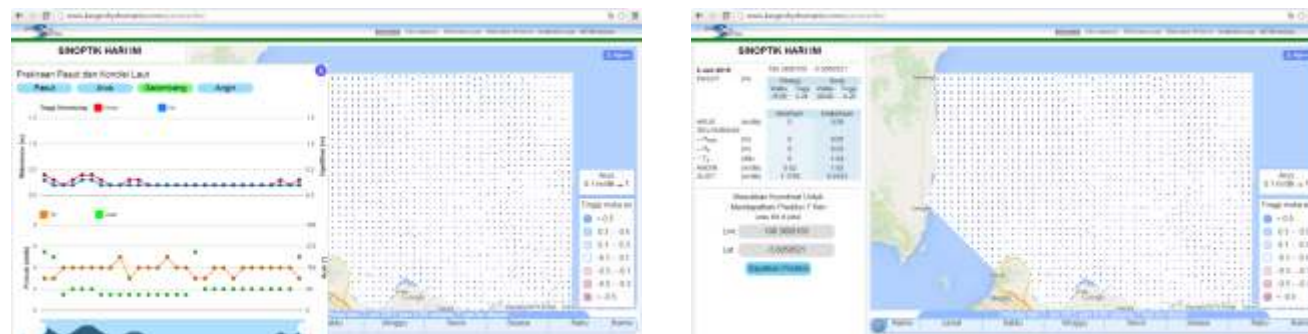


PORT AND COASTAL CONSTRUCTION

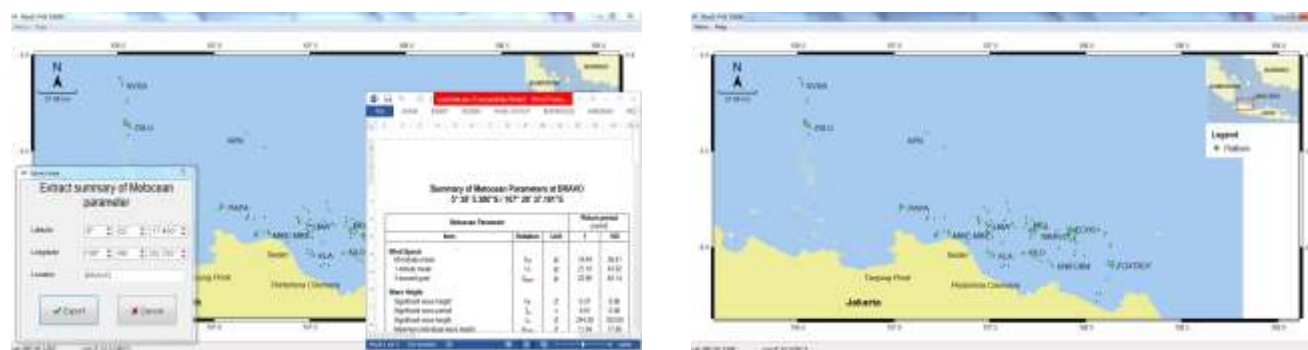
The accuracy of metocean design criteria is vital for the planning of port and coastal construction. Services that BWgeohydromatics provided to support port and coastal construction is the analysis of return period, tidal level and morphology and bathymetry changes to ensure the construction design is safe and efficient. The following is sample of current simulation result to support the development of the port at Pulau Muara Besar, Brunei Darussalam.



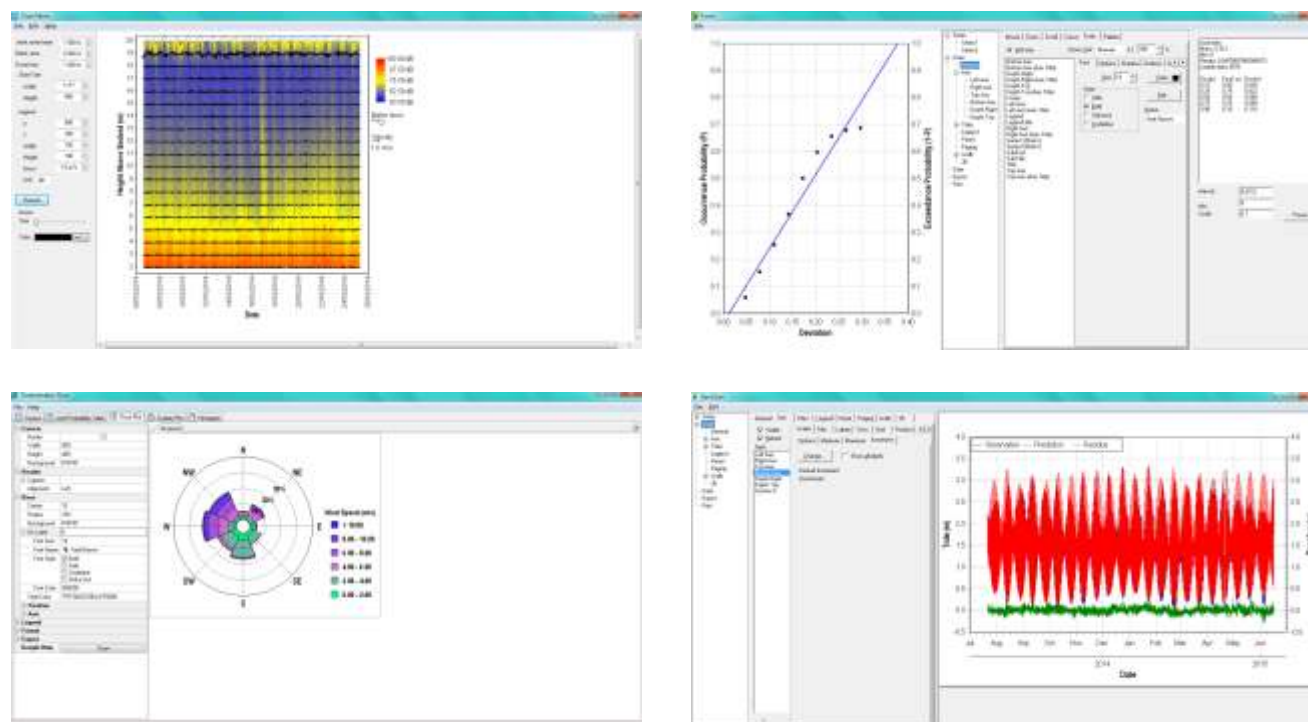
product development



- Operation metocean service facilitated by online (web-based access)



- Offline metocean information retrieval system with GUI (graphic user interface)



- In-house software for computing and analysis tools