



Bay of Campeche Hyd/Met System

ENSURING SAFE NAVIGATION IN A HIGH-RISK MARITIME DOMAIN

Hyd/Met Data to Aid Navigation in Gulf of Mexico

200-300 vessels per day operate around the oil fields of Bay of Campeche in the southern part of Gulf of Mexico. In order to ensure safety of operations, real-time data about currents, wave, tide, wind, visibility and other meteorological parameters is measured at stations located on 7 oil rigs in the area and made available to operators in web based solution.

There are a number of challenges to ensuring safety in the Bay of Campeche. It is only 40-50m deep in most areas so there is a real danger to underwater infrastructure from fishing activity. Additionally, the numerous supply and personnel vessels in the field are generally fast moving targets, so a solution capable of giving these up to date navigational data is required.

Benefits of Solution

- Current speed referenced to surface gives true effect on maneuvering of the vessels in the area
- Meteorological parameter, wave and tidal information for safe navigation
- Availability of data in web based solution removes the need for installing specialty software on users' computers, data is viewed in a standard browser

Equipment Used

- 7 Hyd/Met stations located on oil rigs in the Bay of Campeche including current speed referenced to surface, wave and tide measurements, wind speed and direction, visibility and 5 other meteorological parameters
- SmartGuard data hub collecting and controlling all sensors
- Real-time data available in web solution with data from all stations forwarded via micro wave link to shorebased DB in control center on-shore



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