

CASE HISTORY

HonuWorx Loggerhead Buoy Motion Analysis

Project Description

The scope of the project involved conducting dynamic analyses using OrcaFlex software to refine the design of the Gateway buoy for optimal seakeeping performance.

This was performed through the simulation of various models and sensitivity analyses, all of which were conducted within the confines of the parameters established by the Client.

The primary goal was to evaluate and characterise the motion behaviours of various spar buoy and tether configuration designs, with the aim to ultimately establish the most effective and best - performing design from the range of options explored.

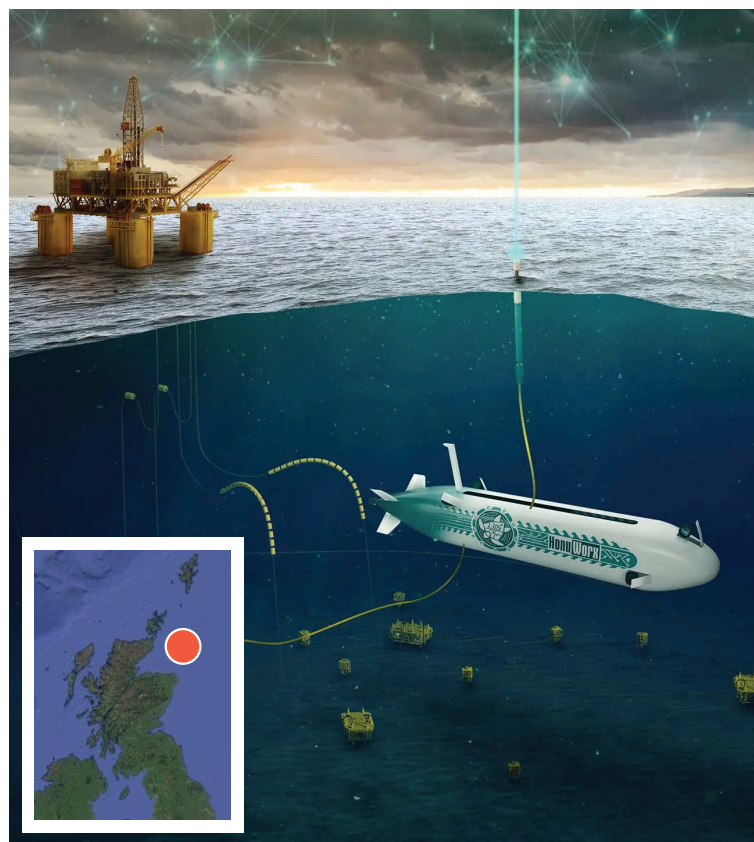
Our Scope

HonuWorx are currently designing an autonomous mothership and ROV system concept called Loggerhead which will allow an ROV to be piloted remotely from onshore.

HonuWorx engaged Sealand Projects to perform OrcaFlex based dynamic analysis of their Gateway Buoy which is a surface-based telemetry buoy tethered to the subsea mothership.

Deliverables

Gateway Buoy Motion Analysis Report;
Design Advice;
Buoy Motion Animations.



Key Facts

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| Client: | HonuWorx Ltd |
| Location: | North Sea |
| Water Depth: | 100m |
| Date: | Q2 / Q3 2023 |
| Project Reference: | P0812 |

Services Provided

Package Management
Business Assurance
Carbon Management
Energy Transition
Engineering Design and Analysis
Marshalling, Transport, Installation and Field Support
Floating systems, Towing, Mooring and Hook-Up
Visualisation and Digitalisation

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