

# Bathymetric survey of offshore wind farm site along the French Atlantic coast

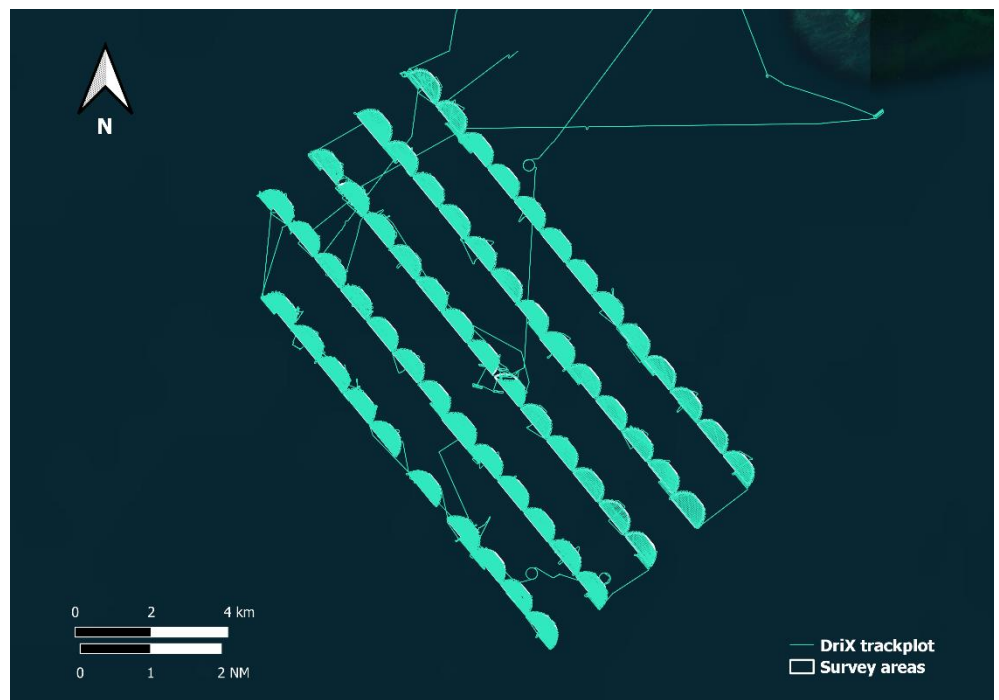
DriX was operated for seven days to conduct a bathymetric survey at the jack-up locations on the Noirmoutier windfarm site. The entire operation was supervised from Exail's Remote Control Center located in La Ciotat in the South of France.

## PARTNERS



KONGSBERG

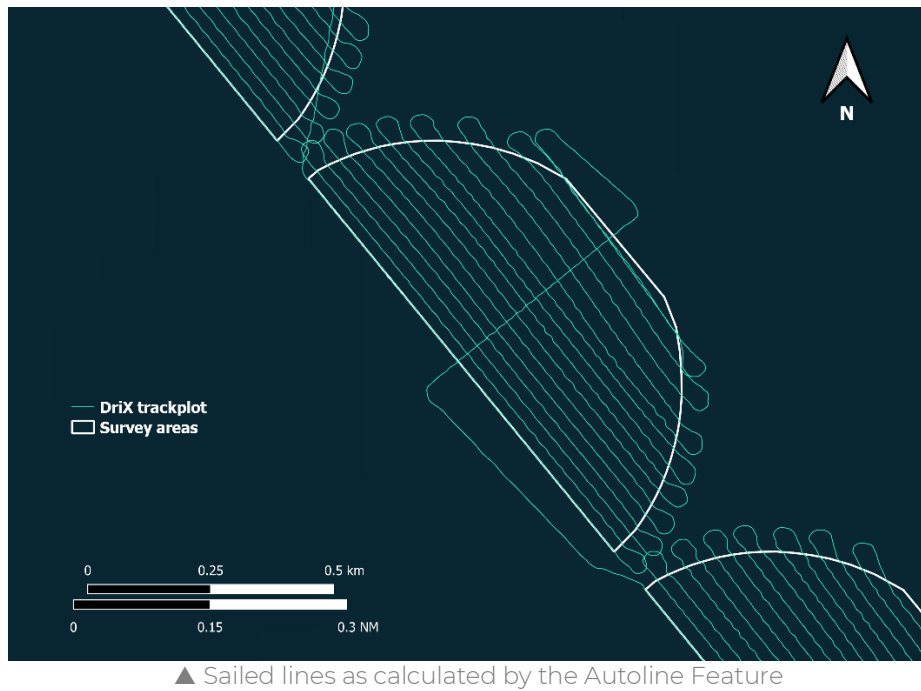
In February 2024, DriX was instrumented with a Kongsberg EM2040 multibeam to conduct a bathymetric survey on an offshore Windfarm off the coast of Noirmoutier (France). The objective of the survey is to perform target detection on the jack-up locations prior to turbines installation, based on a high resolution bathymetric data. The DriX was monitored 24 hours a day from shore by a dedicated team of engineers and surveyors.



▲ DriX trackplot for the operation.

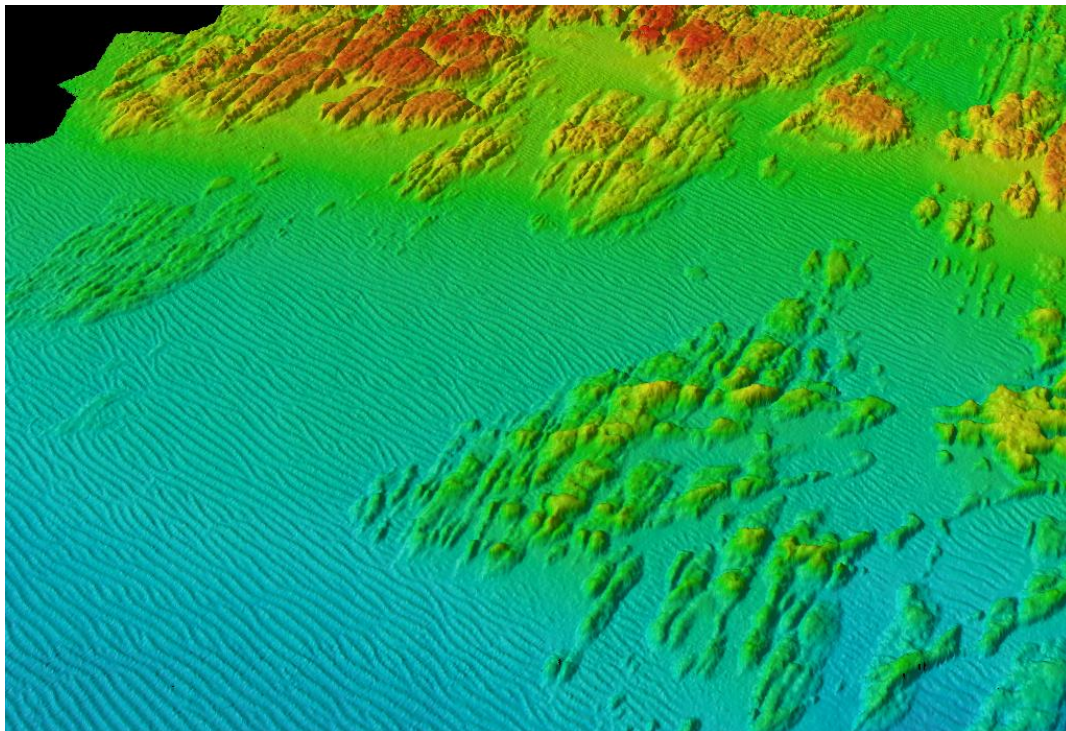
The DriX Autoline feature, used to optimize the USV path based on bathymetry information, was used on each of the 62 survey areas resulting in efficient survey preparation and operation. A total of 940 nautical miles were sailed over 7 days at the average survey speed of 6 knots.

## CASE STUDY



A total of 33 sound velocity profiles were performed using the winch mounted on DriX, remotely supervised by the operators on shore using the DriX HMI and the camera.

The operation resulted in 31 km<sup>2</sup> of high-resolution & high-density bathymetry with more than 50 soundings per square meter and 0.25 cm grids in depths averaging 30m.



▲ DriX following a Spiral pattern at Block Island Windfarm (HMI with radar overlay (right), RGB camera screenshots and videos (left))