Technology and Knowledge Transfer

GEOMAR

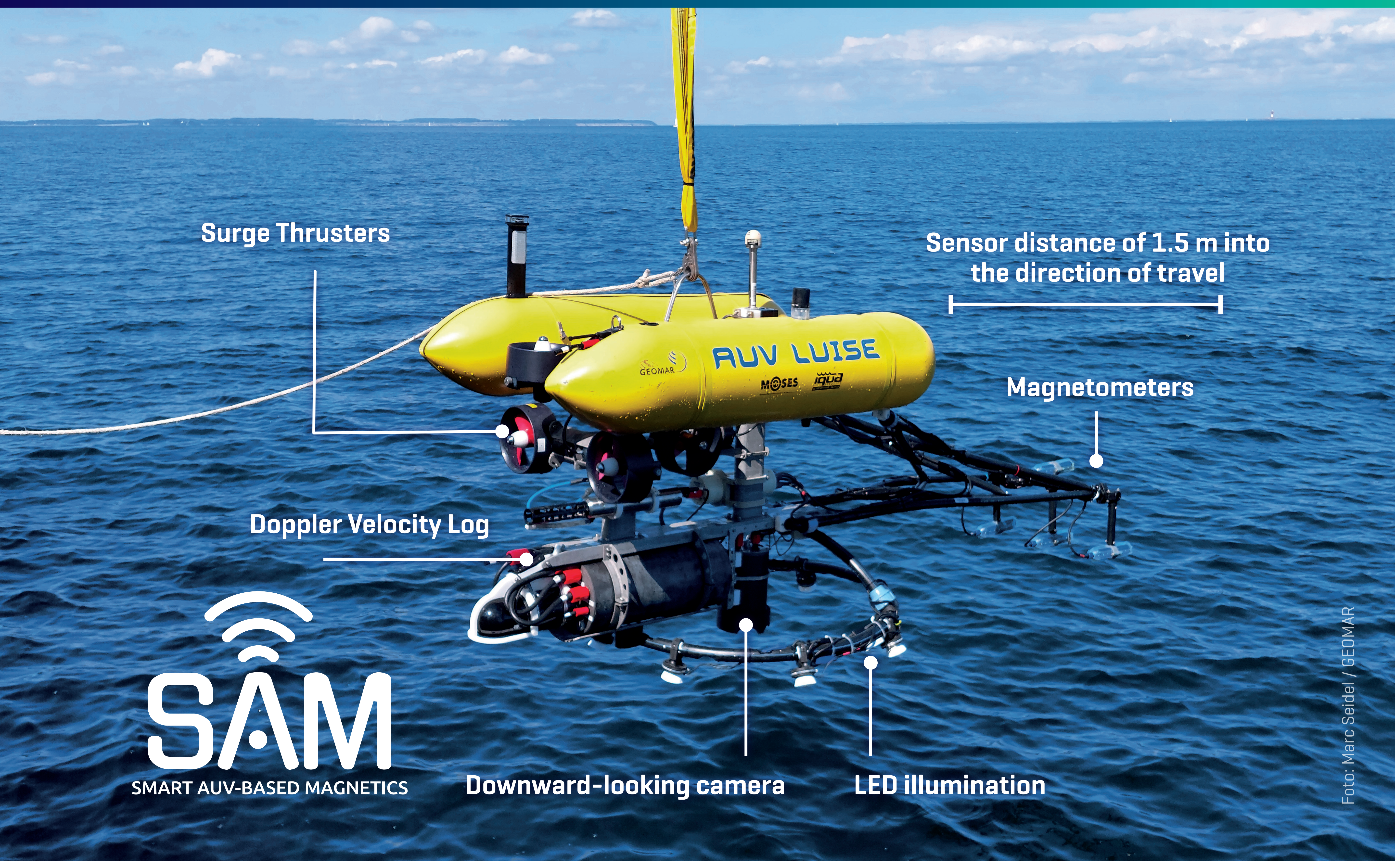


Foto: Marc Seidel / GEOMAR

SAM – Smart AUV-based Magnetics

As part of the **SAM** project, systems for detecting objects such as munitions with Autonomous Underwater Vehicles (AUVs) are being developed. Based on magnetic in-situ measurements, the **SAM** routines independently control and calculate the next navigation waypoints and complete AUV search patterns.

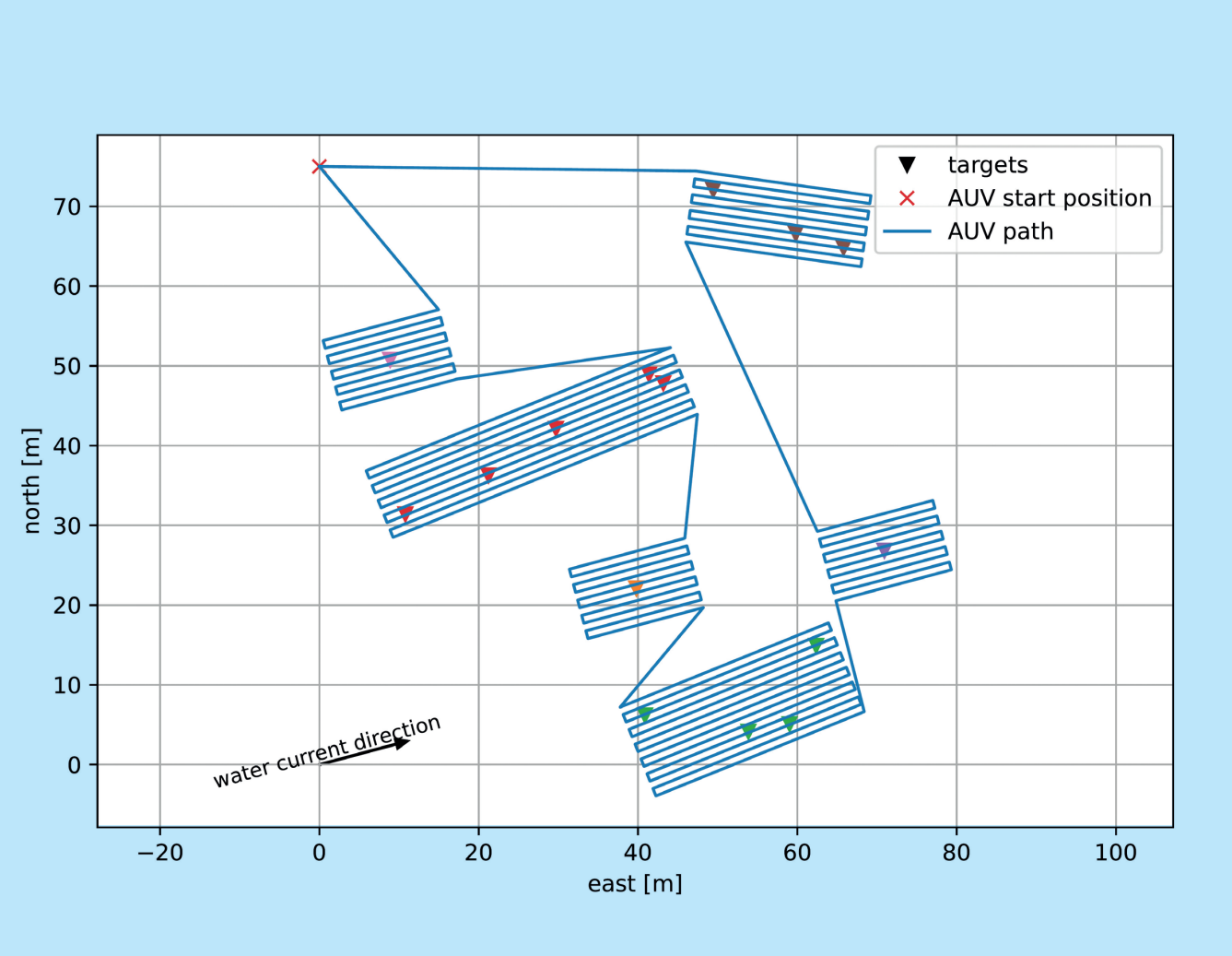
Find out more

The objective of **SAM** is the fully automated detection, localization and evaluation of magnetic anomalies in the offshore area, including the creation of a detailed report for each object examined.

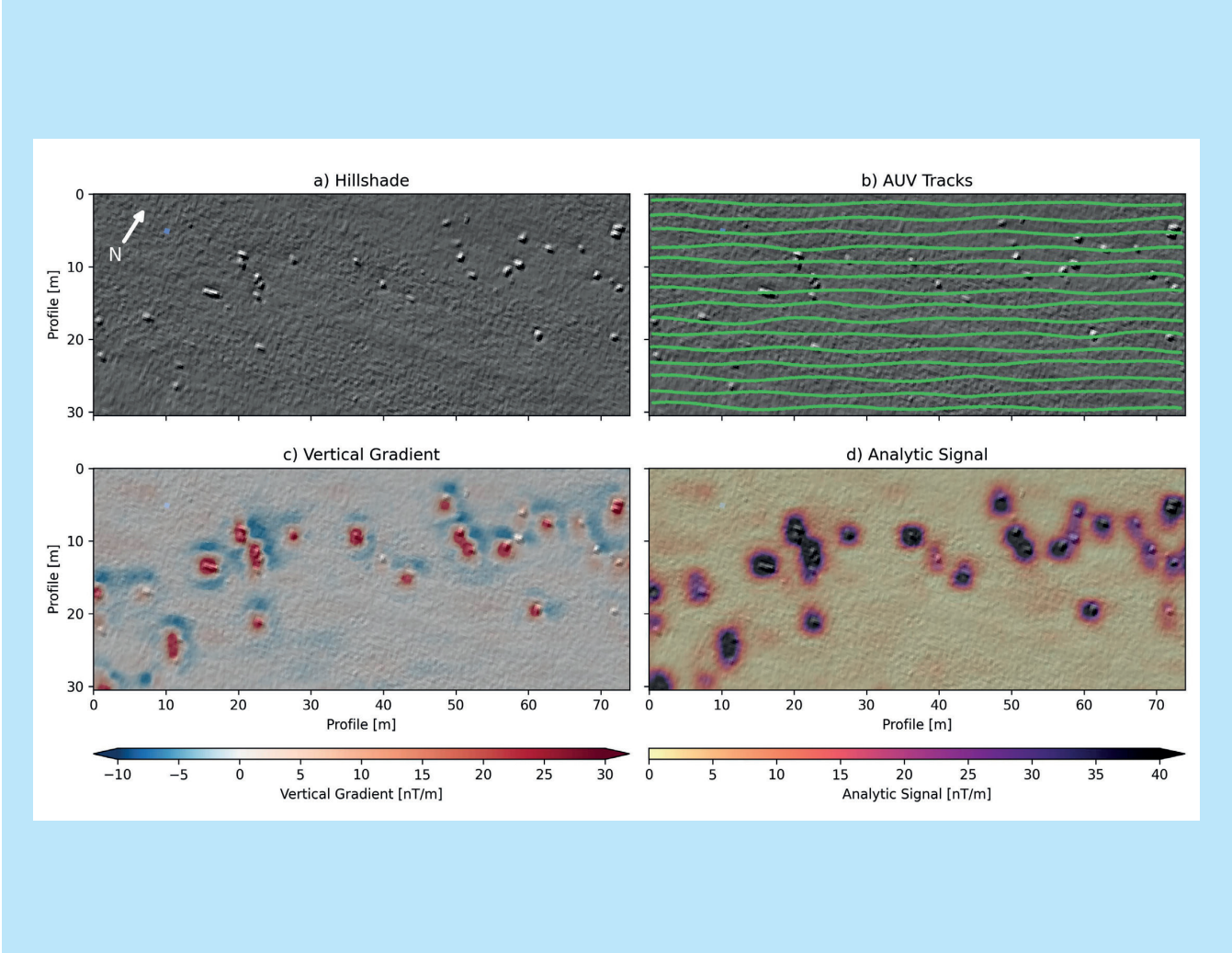
Contact SAM: Marc Seidel, mseidel@geomar.de

SAM Project Highlights

- **Application Areas**
  Automated and autonomous detection of offshore munitions by AUVs



- **Smart Mission Design**
  Simultaneous measurement of magnetic anomalies in close proximity to each other (clustering)



- **Smart Tracking**
  Autonomous detection and monitoring of cable lines, pipelines as well as port facilities and sea routes

Technology Transfer and Industry Cooperation at GEOMAR

The Research Funding and Transfer Office at GEOMAR supports partners from industry, science and society in finding joint research opportunities. Together we further develop the innovative research results from GEOMAR in order to bring them into application.

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Find out more

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