

Saab UK & Kockums REPMUS 2023

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CNE

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SAAB

Overview

- Introduction to REPMUS
- AUV 62 AT as an exercise target
- Seabed Warfare or Critical Undersea Infrastructure Warfare
- Sea Wasp and Falcon ROVs
- Conclusion

EXPERIENCES FROM REPMUS 2023



REP(MUS) (Robotic Experimentation and Prototyping using Maritime Uncrewed Systems) is an annual military exercise organized and hosted by the Portuguese Navy and NATO with the participation of forces from foreign military forces, universities and tech companies.



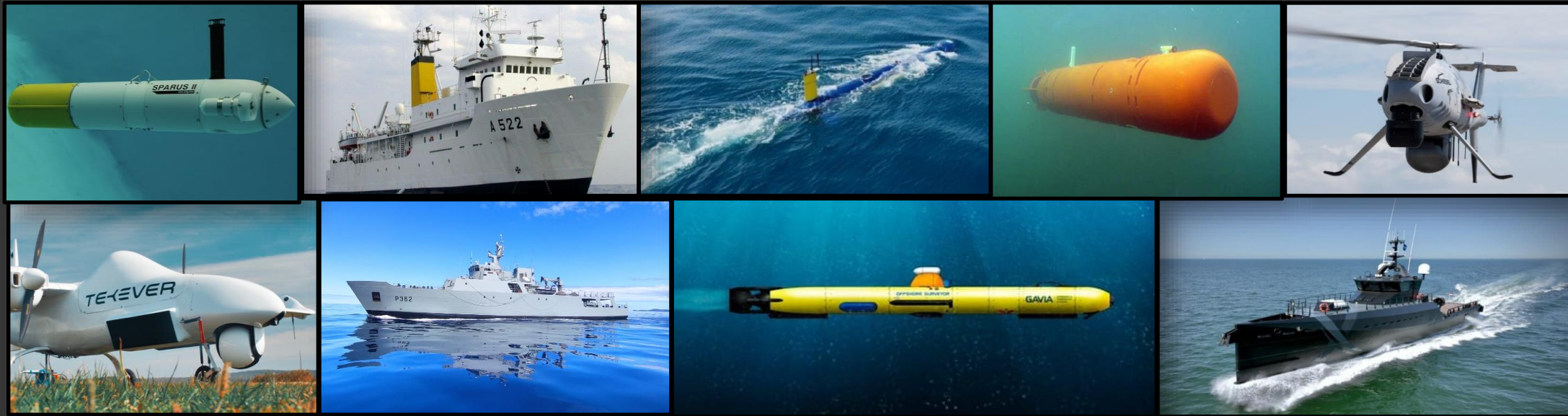
The exercise has the objective of testing different types of unmanned aerial vehicles, unmanned surface vehicles, unmanned undersea vehicles, and unmanned ground vehicles.



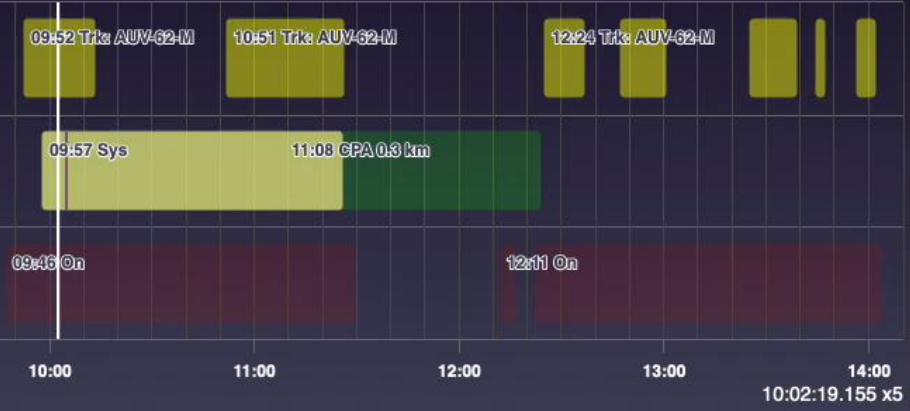
Today it is the largest Unmanned testing exercise, with the participation of several NATO countries.



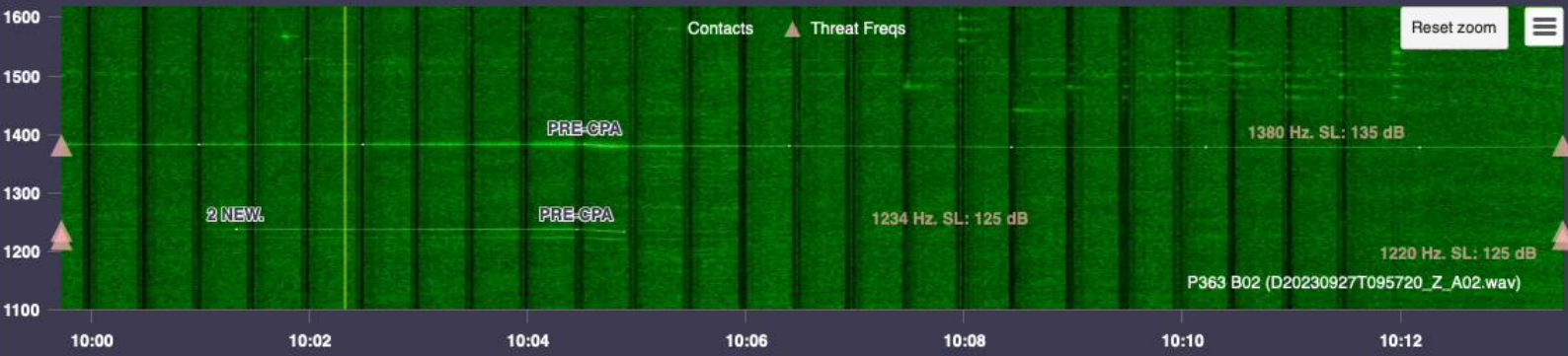
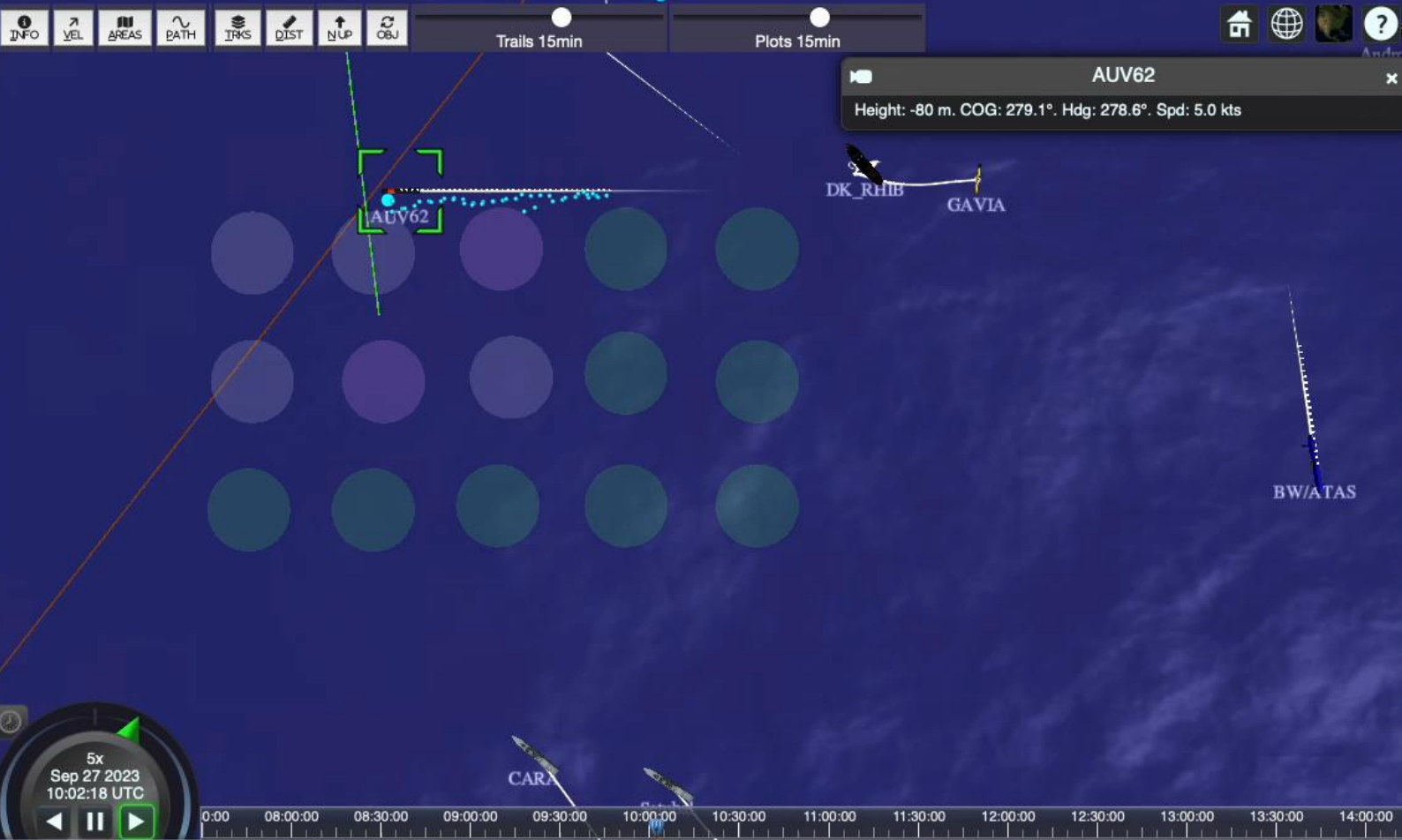
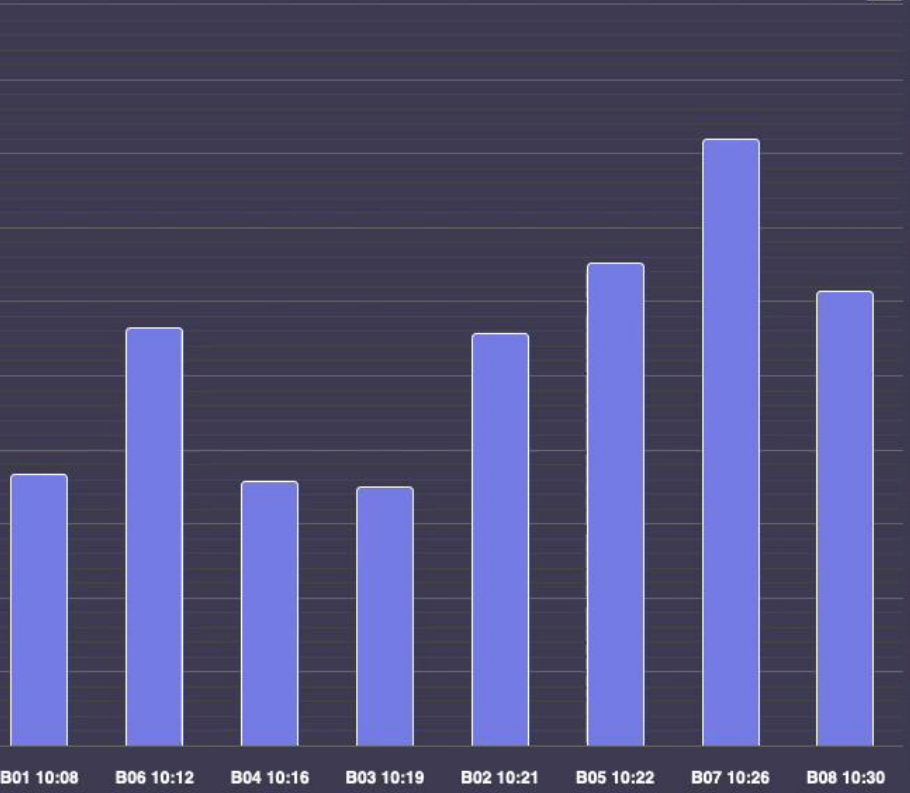
The Range of Participants



27100 - Master Time Line



27100 Buoys Contact Lost - Actual Ranges



CUI Assets and Capabilities



Gavia



SPARUS II AUV



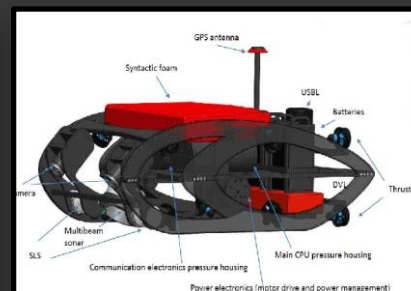
OSPREY AUV



Sea Falcon ROV



Sea Wasp ROV



EVA ROV

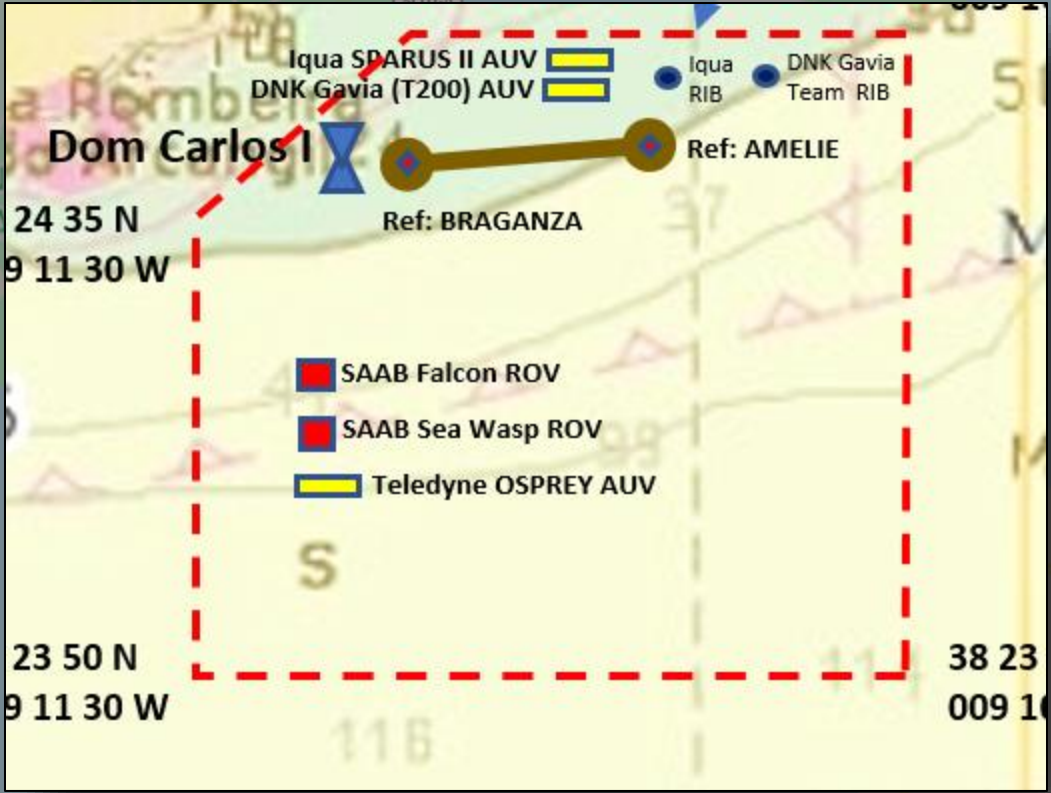


Oceano Atlântico

Azeitão

Setúbal Municipality

Reserva Natural do Estuário do Sado



Brejos da Carregueira de Baixo



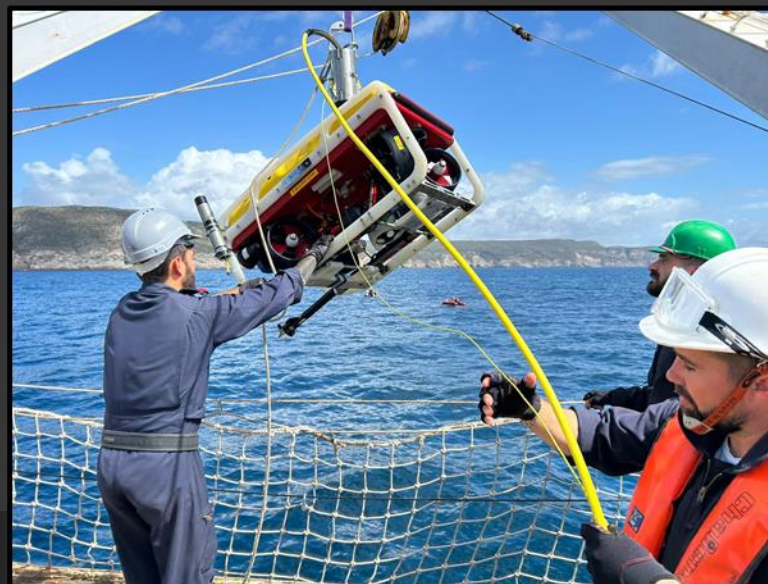
The ROVs



Mobilisation



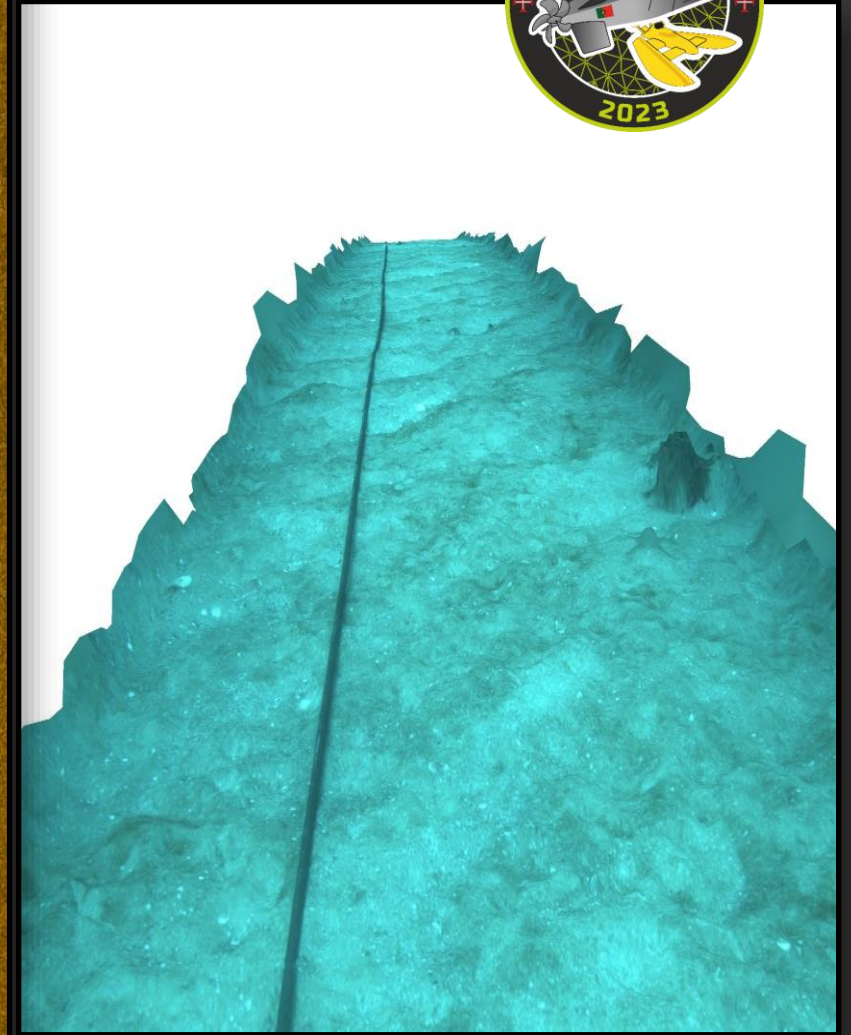
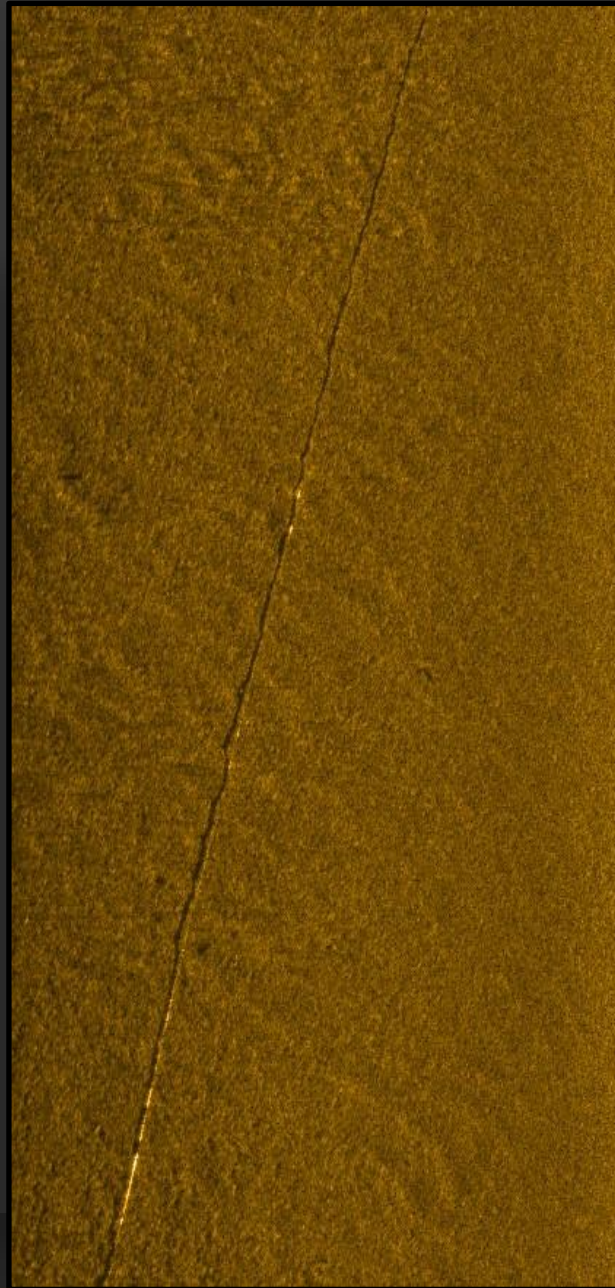
The Team



The Targets



The Search





Batteries: []

72.2%/27.1V

DEPTH: 37.4 m

T(Water): 16.2 °C

Main: 0.71bar, 43.4°C, 50.6%

Comms: 0.66bar, 30.9°C, 45.0%

LEAK_M: 0



Dashboard

Cameras

Graphs

ADDITIONAL UTILITIES

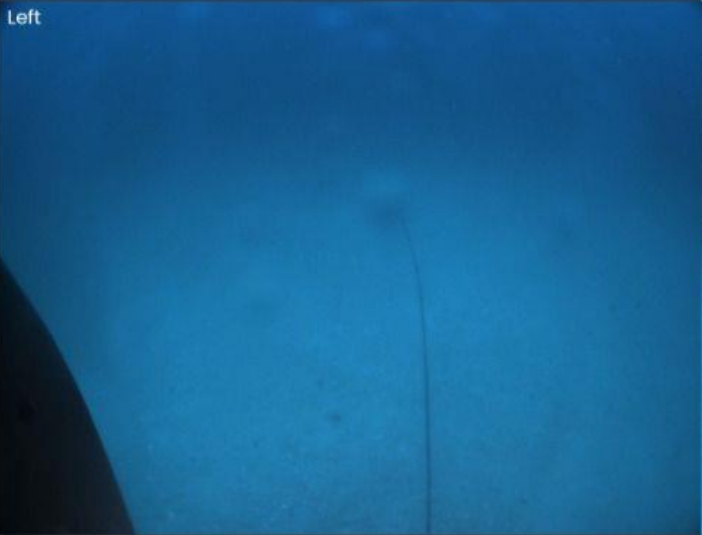
Webviz

Take Snapshot

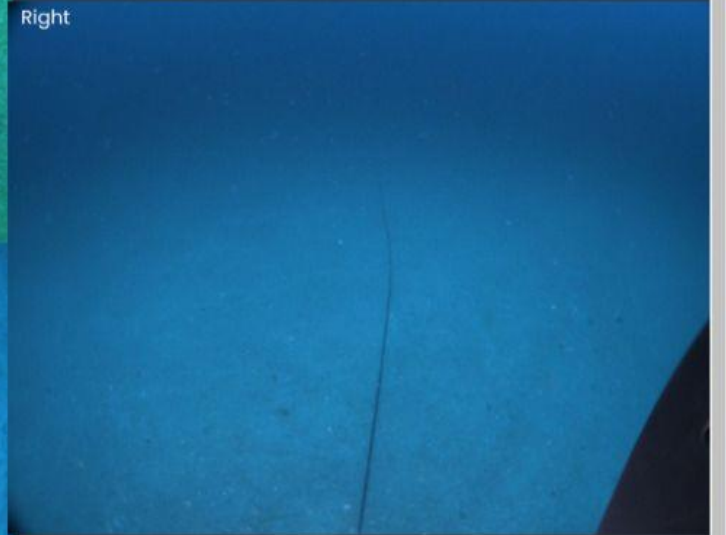
cam_5mp



Left



Right

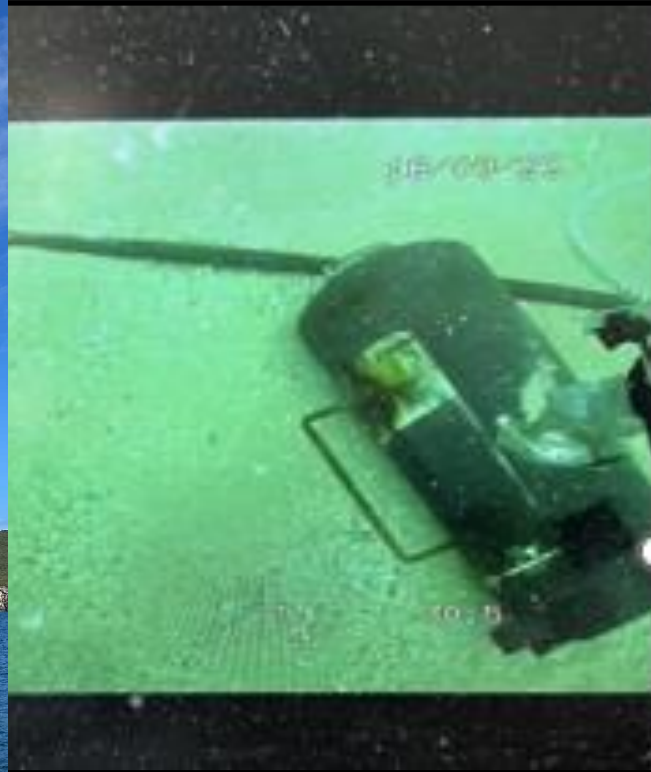


cam_3mp



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Remote EOD Lifting Technique



ROV utilisation



Conclusions

- Realistic ASW target with high fidelity and adaptable signature
- CUIW is a new branch of warfare requiring its own doctrine and C2
- Mobilisation of a capability is simple but expensive
- Government and Navies intent for CUIW remains unclear and shrouded in secrecy
- REPMUS 24



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