Rapid Environmental Assessment with Iver UUVs

**AT A GLANCE**

**WHAT IT IS:**
Rapid Environmental Assessment (REA) provides a characterization of the physical environment to increase mission effectiveness, reduce risk, and reduce timelines for operational units arriving onscene. In the REA phase of Unmanned Warrior 2016 (UW16), mobile unmanned systems (Iver 2/3 UUVs) are employed for measurement and data products.

**HOW IT WORKS:**
The REA phase of UW16 relies on unmanned (Iver UUVs) and traditional survey tools for environmental characterization. The Fleet Survey Team and the Naval Oceanography Special Warfare Center will support operations. Data product generation will target rapid response (24 hr) to mission planners.

**WHY IT IS IMPORTANT:**
An accurate characterization of the physical environment is critical in planning tactical operations. Oceanographic parameters often require in situ sensing, and unmanned systems can be the most effective platform in operational scenarios.

*Unmanned Warrior is part of exercise Joint Warrior 2016, hosted by the United Kingdom off the North-West coast of Scotland.*

**Research Objectives for US in Unmanned Warrior 2016:**
- Cooperative development of REA survey CONOPS
- Comparison of survey equipment performance and selective application
- Data product refinement and optimal distribution

*An alliance between US, UK, Canada, New Zealand and Australia*