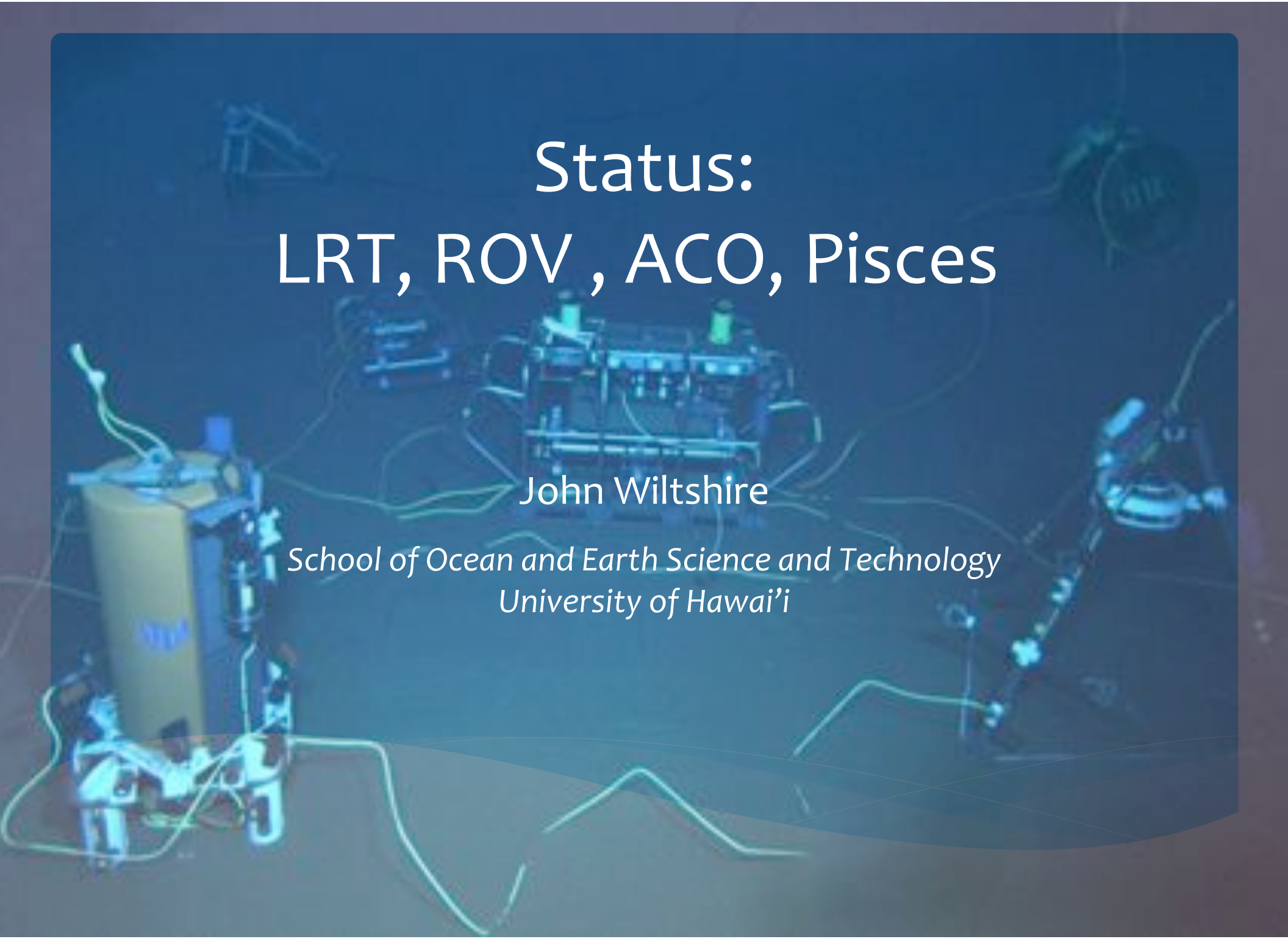
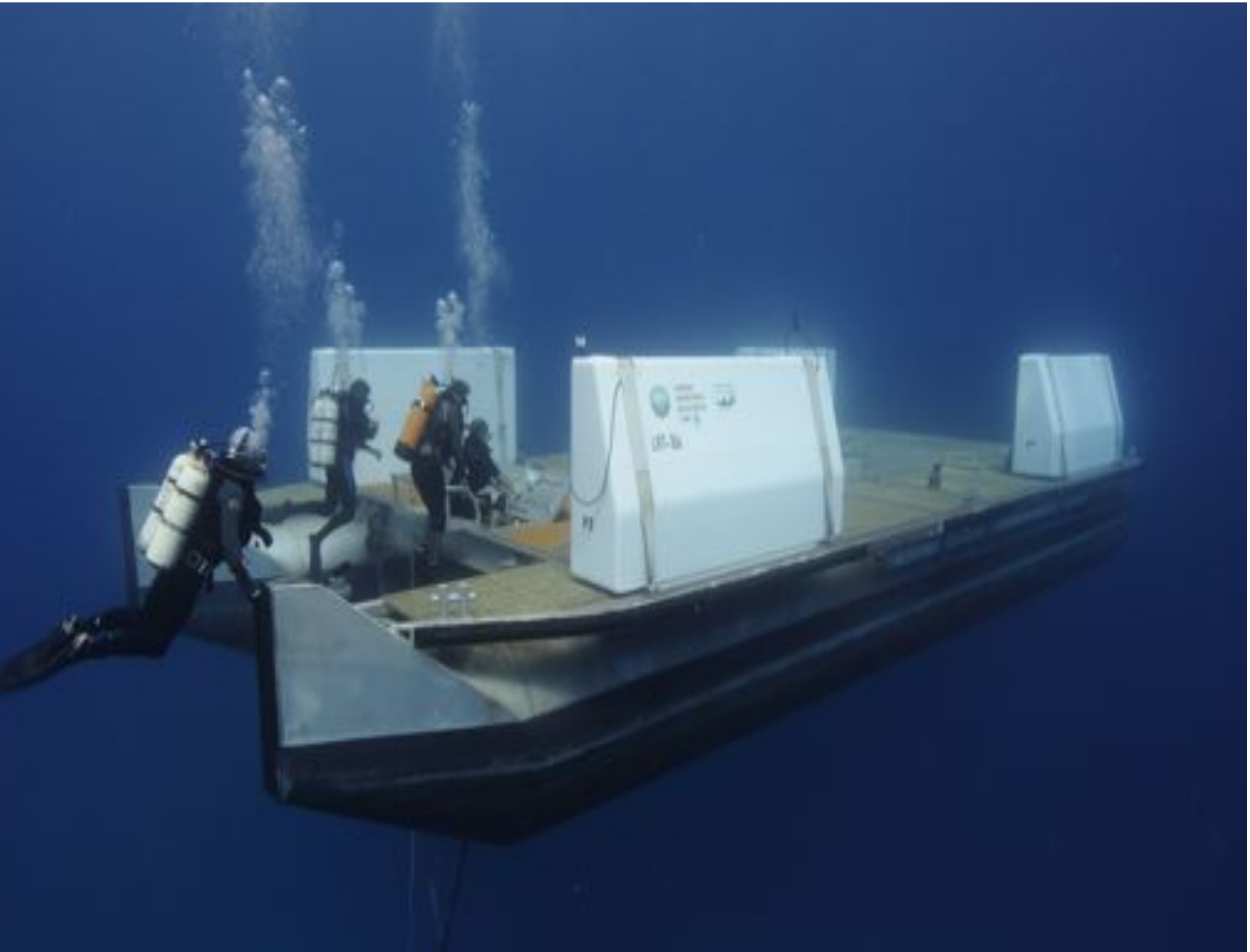
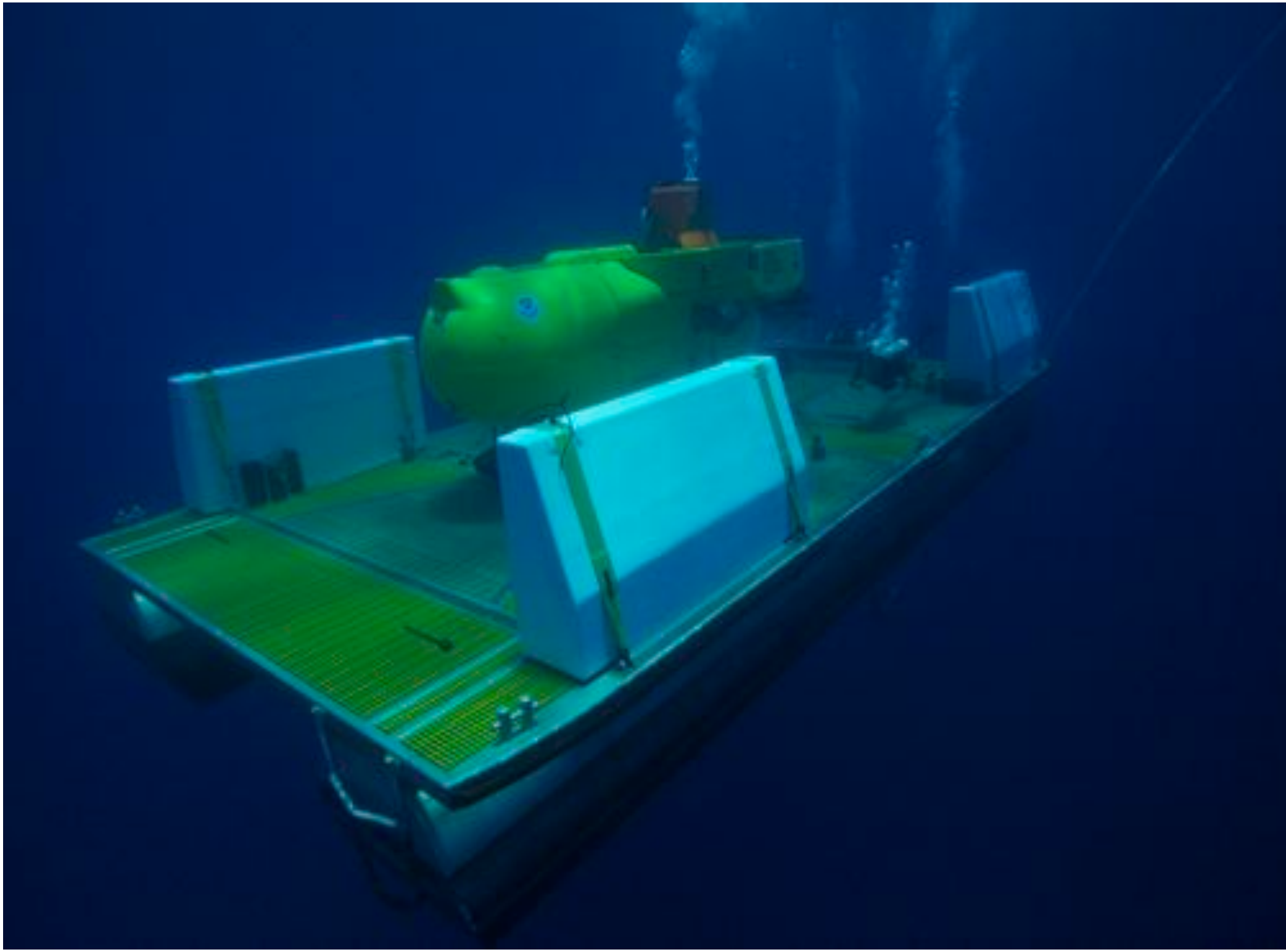


Status:
LRT, ROV , ACO, Pisces

John Wiltshire

School of Ocean and Earth Science and Technology
University of Hawai'i



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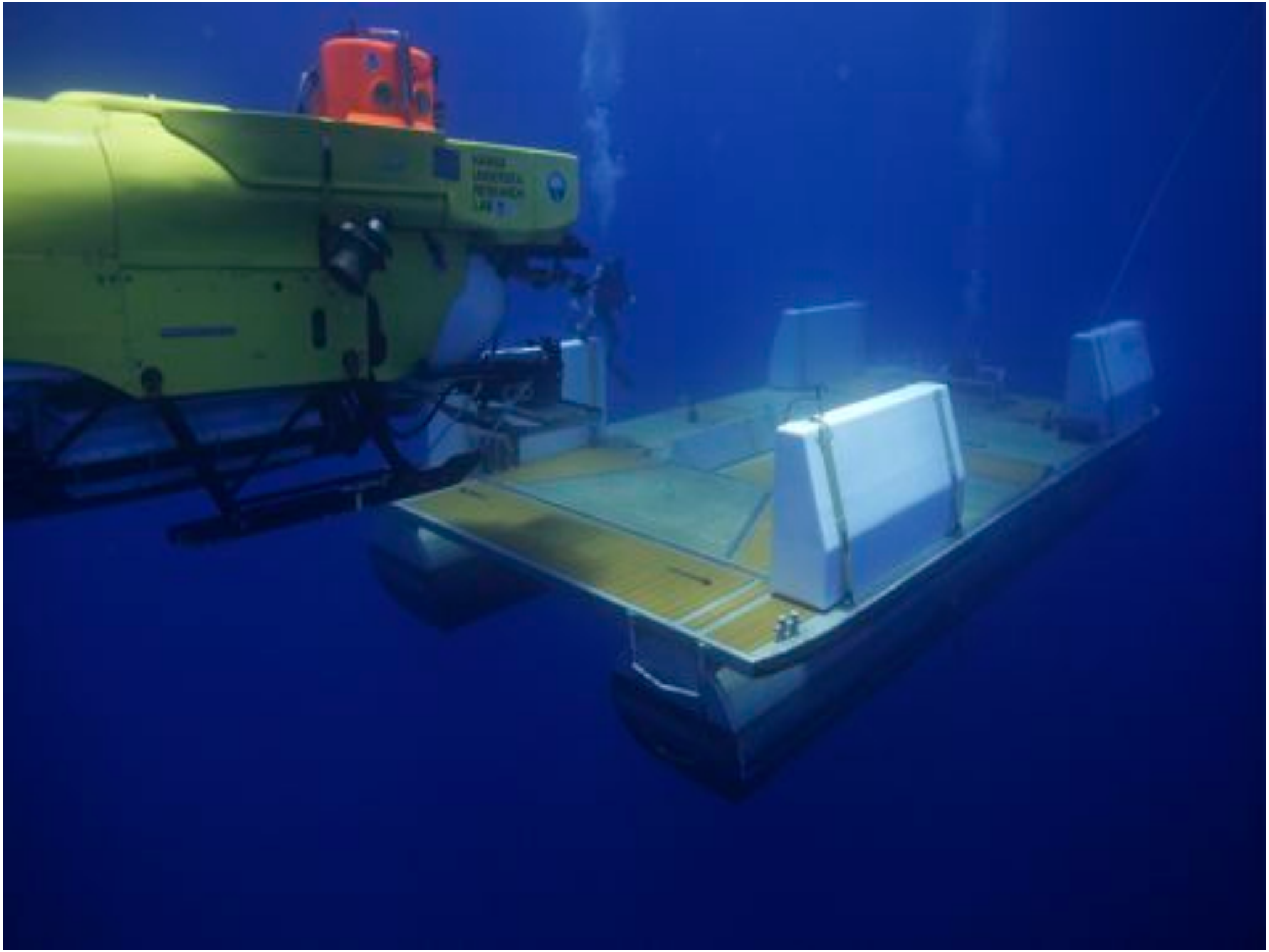
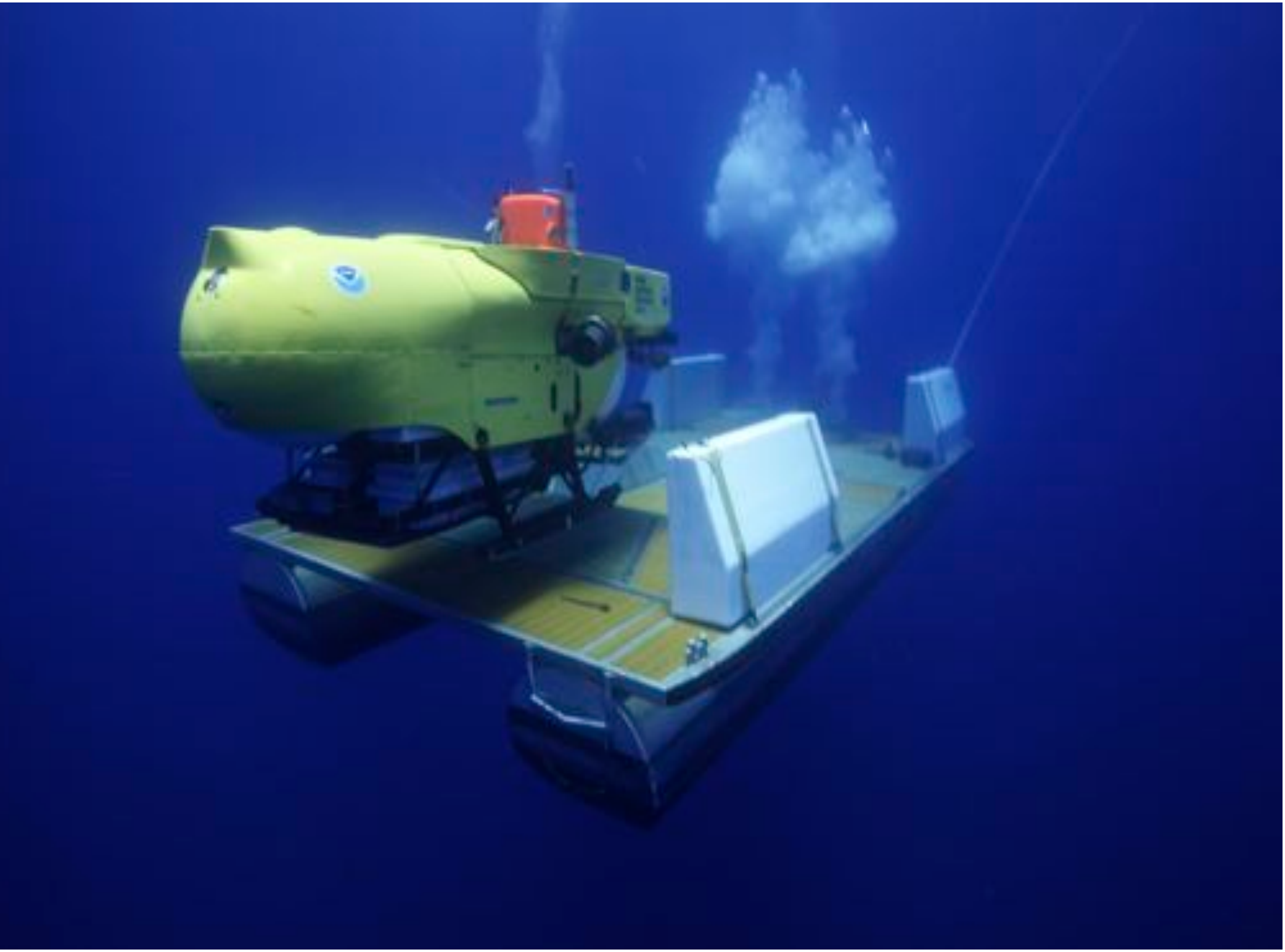
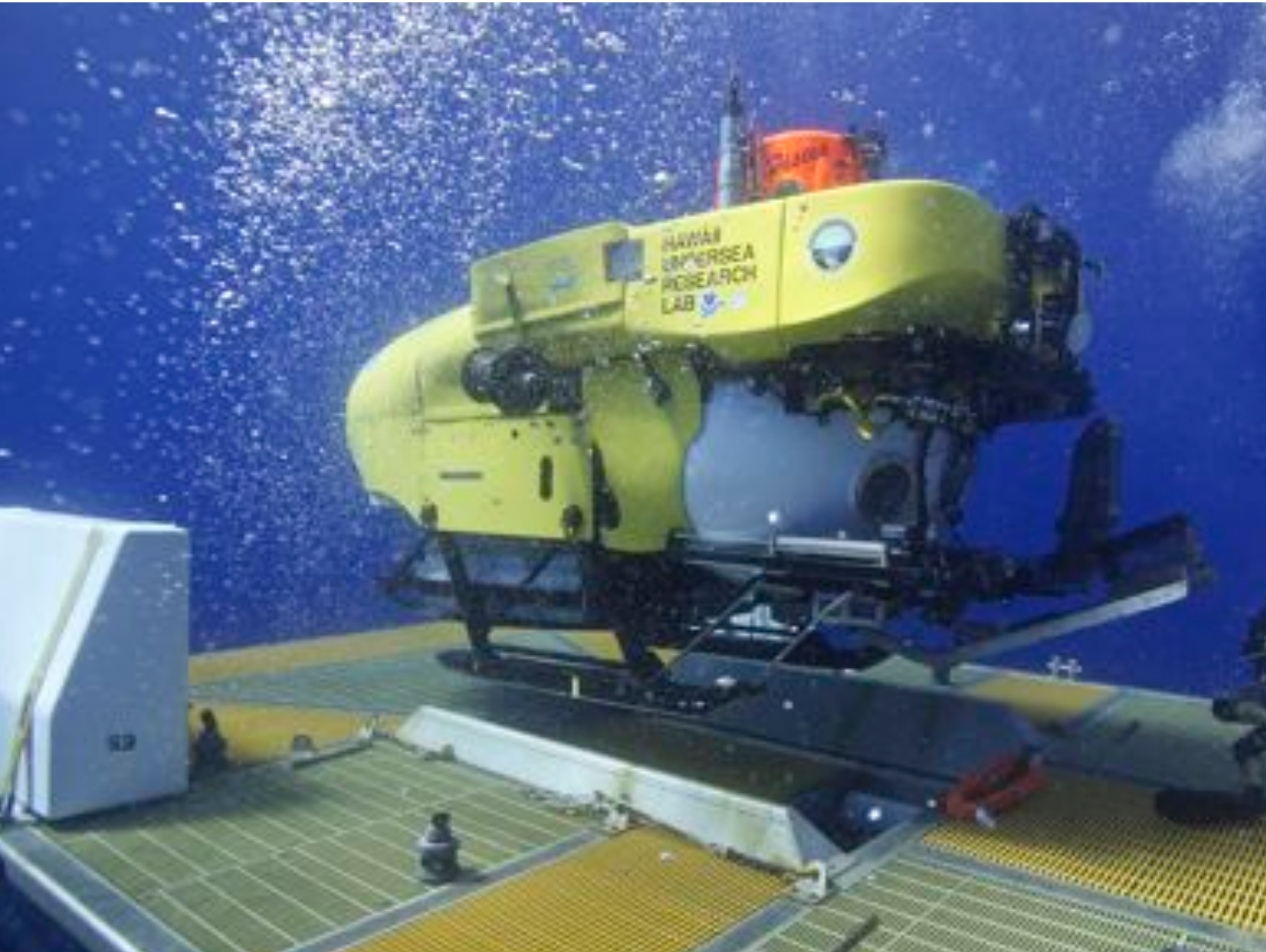
LRT-30a



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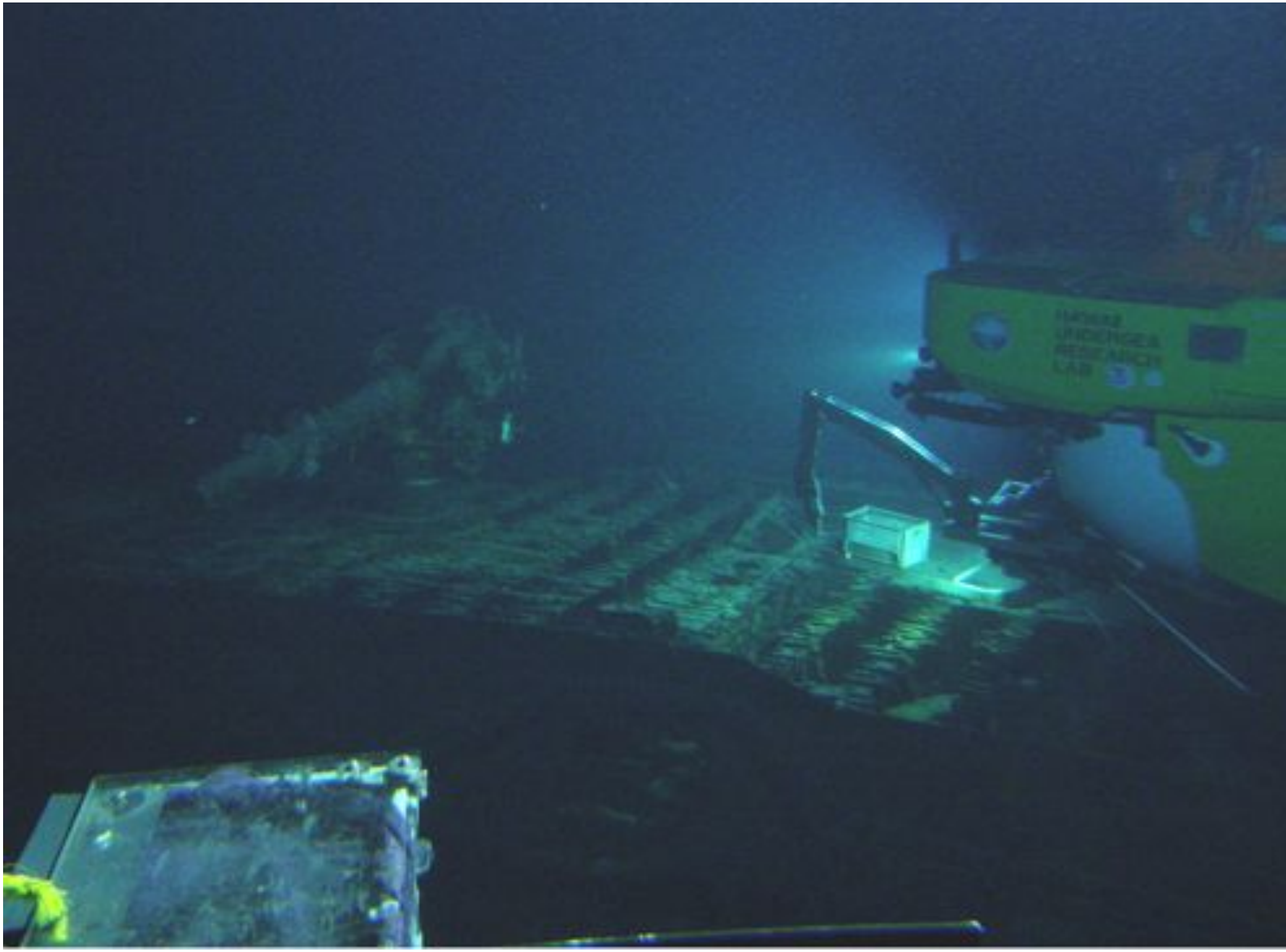
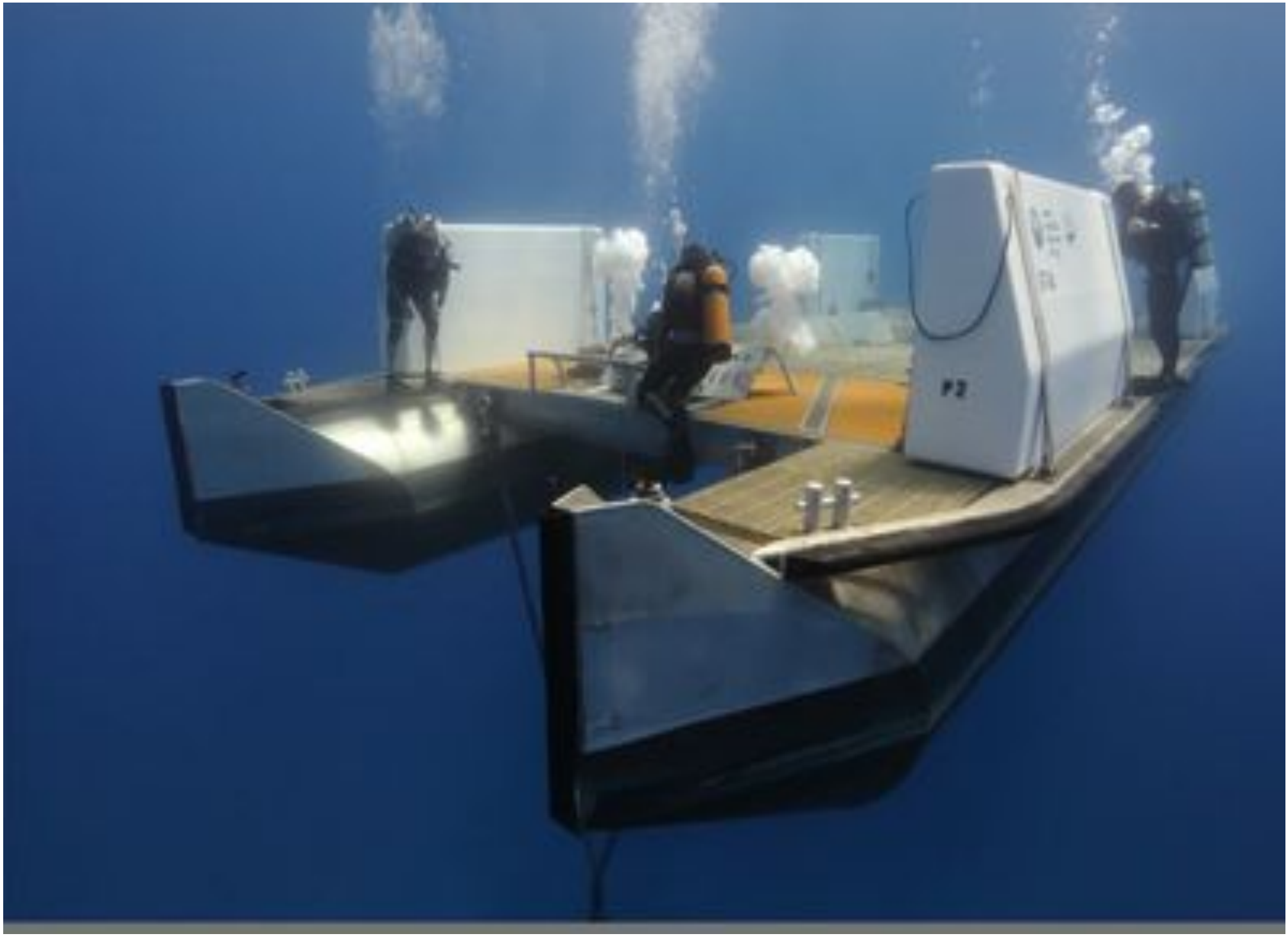



P2

ROV science capabilities

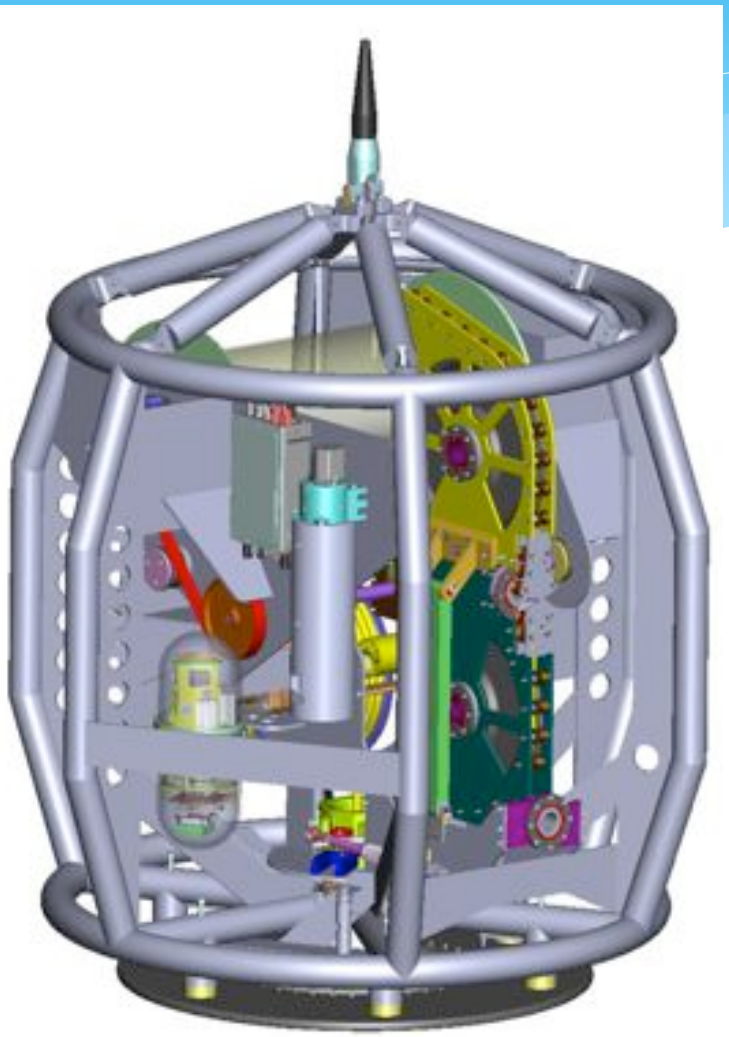
* Science Manifold
  * 6 bulkhead connectors
  * Will support RS-232/422/485 and Gigabit Ethernet
  * Supported voltages include 5, 12, 24 and 48 VDC
  * Additional ACO support manifold is being developed, bulkhead connector TBD
* Expandable to larger sample basket and/or tool skids

ROV science capabilities

* Manipulators
  * Schilling Orion 7P, seven-function
  * DOER SeaMantis, five-function

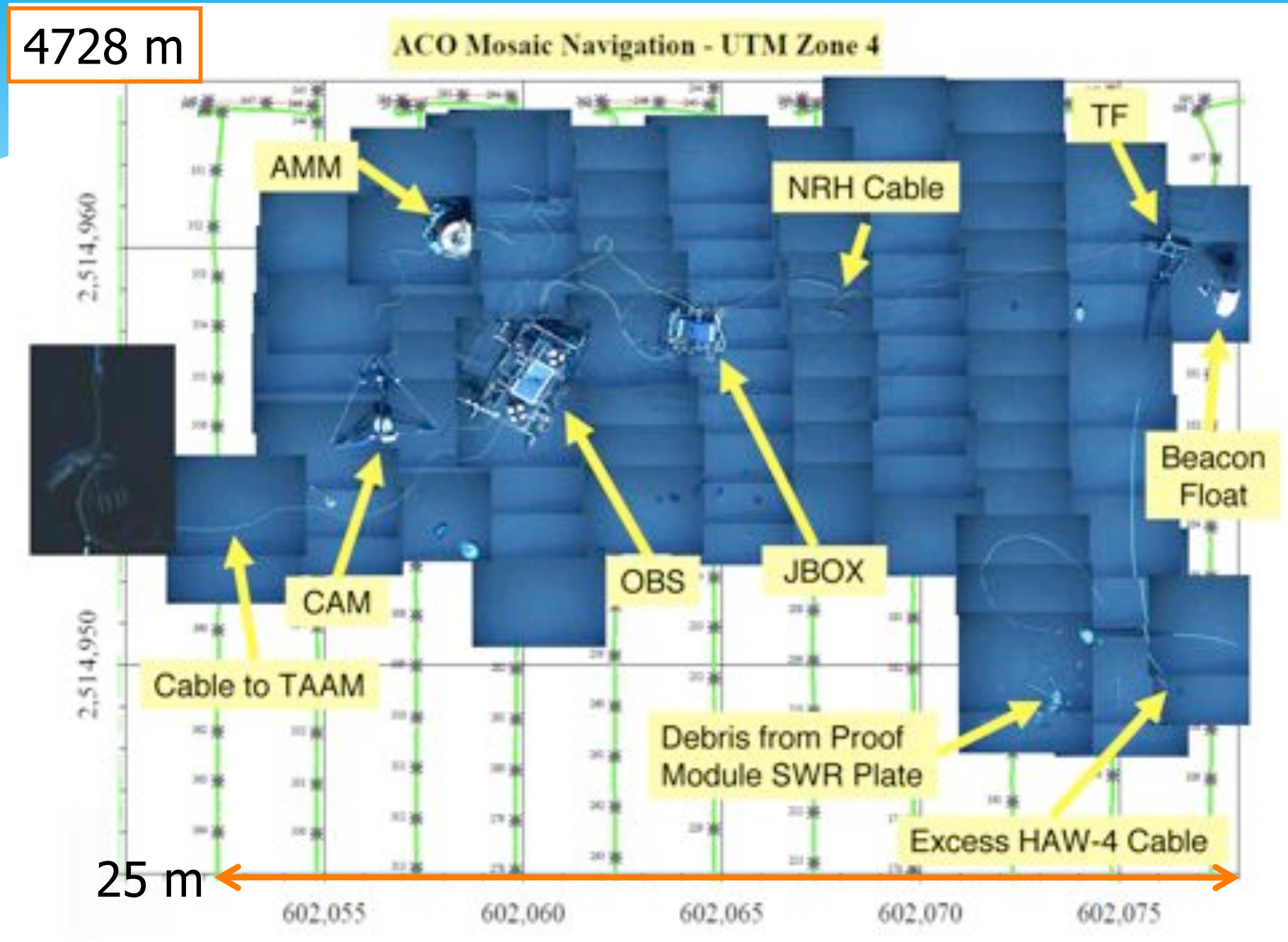
Tether Management System

* 75” diameter, 68” high (top-hat only)
* Transition between .681 cable and neutrally bouyant tether
* Winch drum w/ slip-ring and level-wind instead of RCV-150’s bail-style tether management
* 5 HP hydraulic motor



ROV and tether management

Mosaic of bottom components



ACO bottom configuration