

HAWAI'I MARINE OPERATIONS CENTER

Explore the possibilities at our Marine Center of Excellence



Liquid Robotics' Hawai'i Marine Operations Center offers the perfect location to develop, test, and demonstrate marine equipment. Our ocean front facility, vessel operations, and experienced staff are available to support your mission.



SITE FUNCTIONS & SERVICES

Liquid Robotics' Hawai'i Marine Operations Center offers a highly advantageous setting for the testing and evaluation of ocean robotics, marine instrumentation, and other maritime solutions. Whether you are interested in testing software or hardware prototypes, assessing reliability in a variety of ocean conditions, demonstrating solutions to customers, or offering hands-on training opportunities, the Hawai'i Marine Operations Center allows for efficient operations and fast turnaround times.

Our highly competent and experienced staff are available to lend technical expertise, including over-the-side marine operations support, freediving and scuba diving underwater work, rapid prototyping, fabrication and modification, engineering support for marine instrumentation integrations, and media capture above and below the surface.

FACILITY LAYOUT & EQUIPMENT

The Hawai'i Marine Operations Center is conveniently located 30 miles north of Kona International Airport, within the Department of Transportation secured port of Kawaihae Commercial Harbor. With more than 5,000 square feet of indoor shop space and ample outdoor space, the facility offers numerous services to support your efforts.

- Warehouse work bays with power and ethernet drops
- Equipped and climate controlled electronic workspace
- Fabrication shop
- Seawater ballast tank
- Rooftop antenna mount (10+ meters above sea level)
- Modular training and event center
- Climate-controlled offices and conference room
- Storage options
- Outdoor space (e.g., for testing satellite comms, solar power generation)

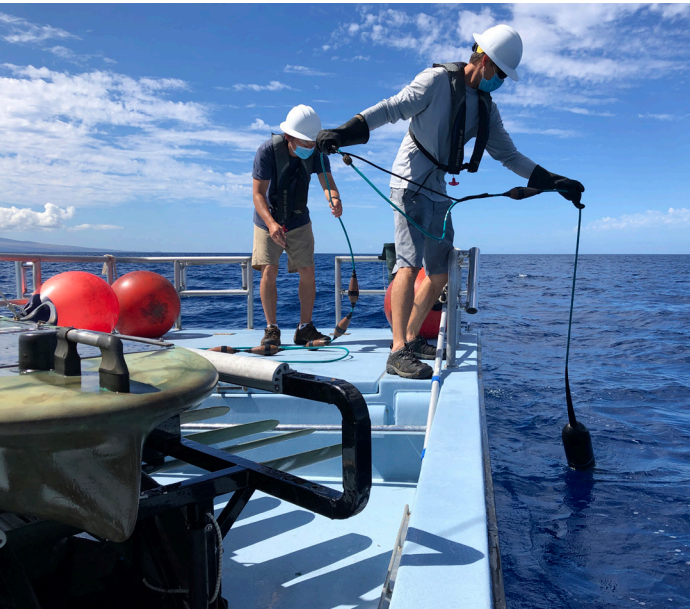


MARINE OPERATIONS

The Hawai'i Marine Operations Center's stunning ocean front location with direct pier access offers unparalleled rapid turnaround for marine operations.

Liquid Robotics' onsite hoisting equipment facilitates safe handling and loading of equipment, with options to directly load onto our 34-foot vessel, *Po'okela*.

The *Po'okela* is available for year-round operations with a roomy work deck, low freeboard, LTE cellular internet connectivity, and twin inboard Cummins diesel engines. The *Po'okela* utilizes an 8-foot hydraulic davit hoist (625 WLL) and hydraulic line hauler to perform uncrewed surface vehicle (USV), uncrewed underwater vehicle (UUV), uncrewed aerial system (UAS), bottom node, and other marine instrumentation deployments and recoveries.



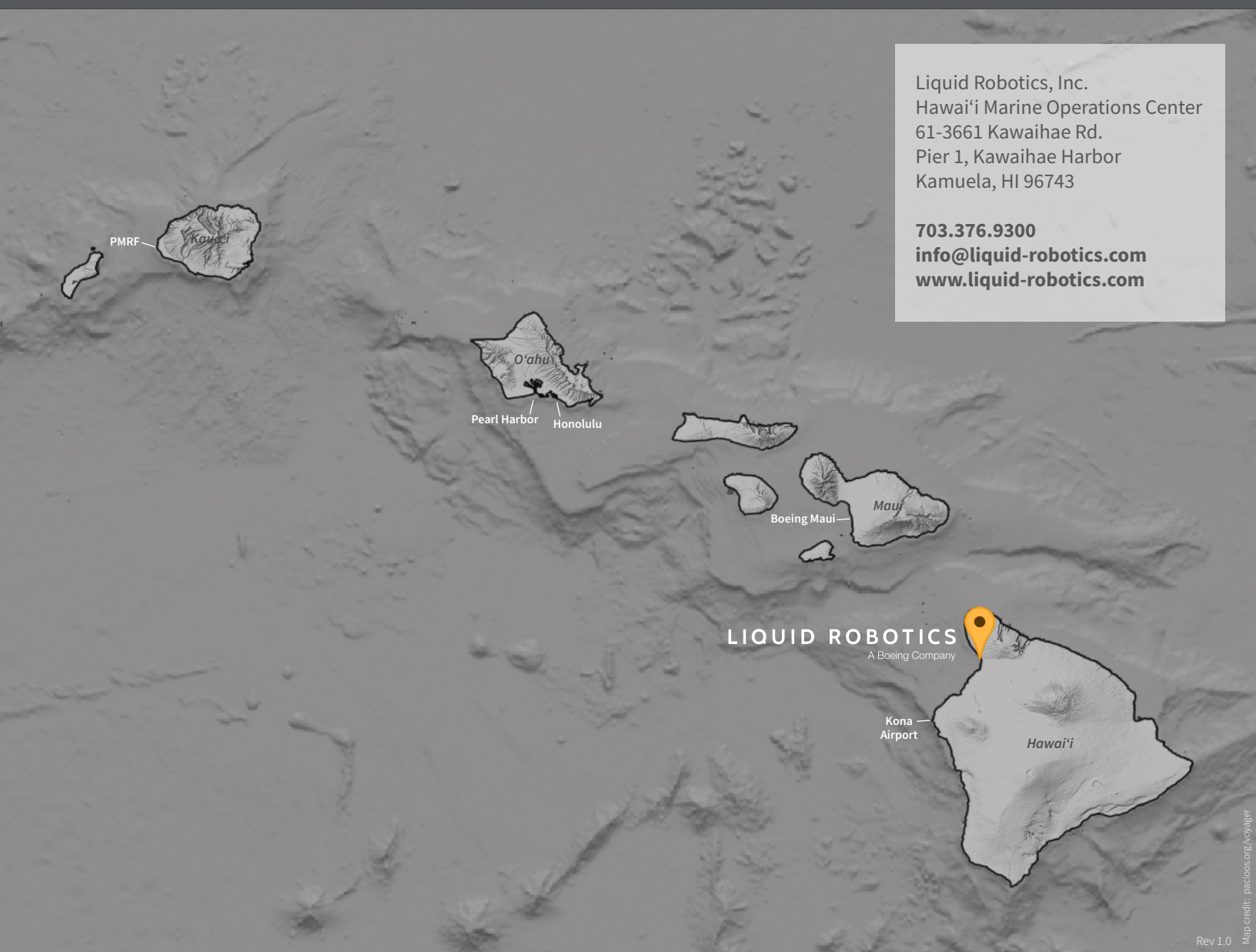
ENVIRONMENTAL CONDITIONS

Hawai'i Island (The Big Island) is known for its predictable weather and ocean conditions, year-round warm temperatures, and exceptional water clarity. Sheltered by tall volcanic peaks, the waters around Kawaihae Harbor are situated on the leeward side of the island, providing calm ocean conditions nearshore along with dry weather. In contrast, the nearby channel between Hawai'i Island and Maui picks up consistent trade winds from the Northeast, which generate a high-wind and rough ocean environment.

Due to the unique bathymetry of Hawai'i Island, shallow and deep-water environments can be accessed within short distances from the Hawai'i Marine Operations Center— ideal for deep diving vehicles and through water comms tests. Notable water depths of 1,000 meters and 4,000 meters can be reached within 15 nautical miles and 40 nautical miles, respectively. High elevation unobstructed cellular towers allow for strong cell coverage over 20 nautical miles offshore of Kawaihae. Hawai'i Island's low population density along the Northwestern coastline and low commercial and recreational vessel traffic around Kawaihae Harbor favor uninterrupted marine operations.



Inquire with us today to find out how Liquid Robotics can help with your ocean testing needs!



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