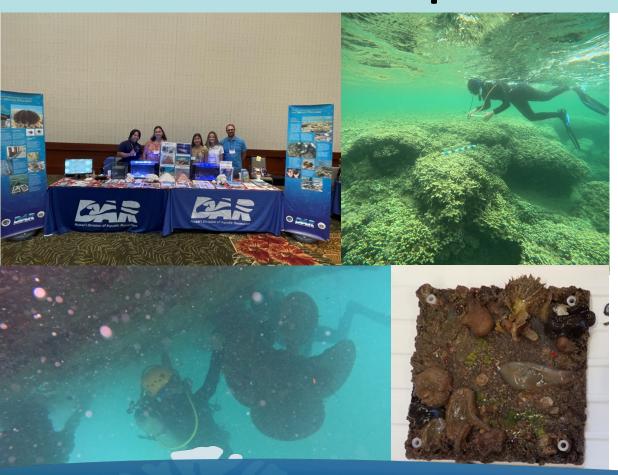




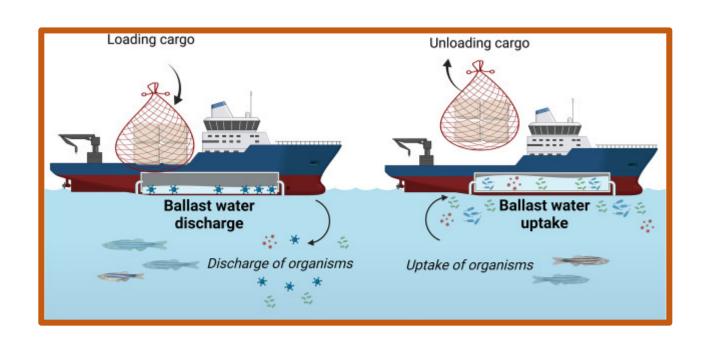
## **DAR Aquatic Invasive Species Team**



- Strategy:
  - 1. Prevention
  - 2. Early Detection & Rapid Response
  - 3. Management & Control
- Top Vectors:
  - Vessel Traffic (Ballast Water and Biofouling)
  - Release (Aquarium and Aquaculture)



# **Ballast Water & Hull Fouling**







## The Vessel Incidental Discharge Act (VIDA)





- Preempts states from developing and enforcing ballast water and vessel hull in-water cleaning regulations that are more stringent than the federal regulations
- Allows states to enforce/co-enforce the new federal regulations or enforce state regulations that mirror federal regulations
- Prohibits states from charging shipping companies a fee to support this regulatory work = no revenue to build a DAR team



## **Stony Coral Tissue Loss Disease (SCTLD)**

- Disease devastating Caribbean coral rapid spread and high mortality
- Travels via vessel traffic (ballast water and biofouling communities) = high risk to Hawai'i

#### Need:

Robust legislation to prevent vessels from discharging infected ballast water over Hawaiian reefs.

- Emergency Rules
- Petition for Emergency Orders under VIDA





### **Invasive Octocorals in Pearl Harbor**

- Two species of octocoral (Unomia stolonifera & Capnella spicata) introduced to Pearl Harbor watershed by an aquarium release
- Have spread to 82 acres of seafloor and cover native hard corals, potentially smothering them
- Unomia is also highly invasive in Venezuela and has colonized over 60 miles of reef devastating the natural ecosystem

#### Need:

Funding to conduct statewide diver and eDNA surveys for signs of octocoral spread outside Pearl Harbor





### **Urchin Biocontrol of Invasive Algae**

- In 2023, 71,150 m<sup>2</sup> of reef in Kāne'ohe Bay was treated with the native Hawaiian collector urchin (*Tripneustes gratilla*)
- <u>DAR Urchin Hatchery and AIS Team outplanted the 1,000,000<sup>th</sup> urchin!</u>







### **Contact Us**

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