



THE STATE OF HAWAI'I  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
DIVISION OF AQUATIC RESOURCES

# ACCOMPLISHMENT REPORT 2025



# 2025

## ALOHA MAI KĀKOU

*The past year was one of significant transition, challenge, and opportunity. Throughout this period, the dedication, professionalism, and commitment of our staff and partners remained constant, and it is because of their efforts that we continue to advance the stewardship of Hawai'i's aquatic resources for current and future generations.*

*This year required us to navigate changing administrative and funding landscapes while continuing to meet core responsibilities. Shifts in federal engagement created uncertainty and required thoughtful adaptation, particularly as we worked to sustain federally supported programs and assume additional responsibilities. These challenges underscored the importance of collaboration, flexibility, and a shared commitment to our mission.*

*At the same time, meaningful opportunities emerged. The passage of Hawai'i's Green Fee represents a significant step toward strengthening long-term investments in climate resilience, natural resource protection, and the management of tourism impacts. This funding mechanism has the potential to enhance aquatic resource management, improve preparedness for climate-related threats and major disasters, and support science-based decision-making across the state.*



Progress was also made in building fisheries capacity and partnerships across the Pacific. The inaugural Pacific Islands Chapter meeting of the American Fisheries Society marked an important milestone and aligned closely with the University of Hawai'i's launch of its new Sustainable Fisheries program. The program's new degree pathways, fisheries certificate, and expanded faculty cohort create valuable opportunities to strengthen management-focused research and to train the next generation of fisheries professionals to support Hawai'i and the broader region.

On Maui, the Holomua Initiative continued to advance as a community-based, Maui-focused approach to addressing local priorities. While this work remains ongoing, the process has demonstrated the value of meaningful engagement with communities to identify actions that reflect the needs of specific places and help guide and focus our work. We look forward to expanding and adapting this approach across Hawai'i in ways that respect local context and strengthen partnerships statewide.

As we look ahead, we remain committed to advancing sustainable management, climate resilience, and community-centered stewardship. Mahalo nui loa to our staff, partners, and collaborators for their continued dedication and service. We look forward to building on this momentum in the year ahead.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Brian Neilson', followed by a small blue fish icon.

Brian Neilson, DAR Administrator



2025 in brief

# ACCOMPLISHMENTS

In preparing this annual report, staff shared over 500 accomplishments to highlight their work. These ranged from exciting new partnerships to the culmination of years-worth of effort and collaboration, ongoing programs and initiatives, and discrete projects that broaden DAR's impact and capacity.

*Began pilot restoration with Kaua'i Coral Restoration Nursery*

*Completed the He Wai e Ola Water Quality Strategy*

*Surveyed 1,923 HMRFS; 17 estuaries; 100 species FAHU; 72 monk seals; 34 sea turtle nests*

*Established the new HAR 13-48.5 Maunalua Bay Fisheries Management Area*

*Biodiversity banking LIMU Biorepository; Rare Coral Ark; 'Ōpae 'Ula Ark*

*Established the new Moloka'i DAR Office*

*Holomua Marine Initiative Maui Management Plan review; Hawai'i Island prep*

*Aquatic Education 4,000 in-person & 208,500 socials*

*Research partnerships University of Hawai'i: HCFRU, PIPES, Sea Grant, TCBES; ASU, HIMARC, Mālama Nā 'Āpapa, TNC*

*Protected/Marine Species 120 Emergency Responses*

*Scoped the Reef Habitat Plan with fishers 1,000 surveys & 300 in-person engagements*

*Licenses & Permits 46,000 issued, \$4.2M raised*



# DAR STRATEGIC PLAN

PAPA HO'OLĀLĀ

The four pillars of the division's strategic plan are the guiding framework for the program branches and districts statewide. They provide high-level alignment, implemented by the many projects and initiatives shared in this report. For more information on the DAR Strategic Plan, visit <https://dlnr.hawaii.gov/dar/>



## PONO PRACTICE

Increase responsible behaviors that minimize the negative impacts of human activities through a mix of education and outreach, improved compliance, and effective regulations



## MONITORING

Support effective and adaptive management with data collection and analyses to detect changes and progress over time



## RESTORATION

Enhance ecosystem health and resilience by preventing damage and restoring degraded habitats and fisheries



## PLACE-BASED PLANNING

Partner with communities and stakeholders to co-produce and implement management strategies at local to regional scales



# PONO PRACTICES

## PILLAR GOAL

*Increase responsible behaviors that minimize the negative impacts of human activities through a mix of education and outreach, improved compliance, and effective regulations.*

## STRATEGIC APPROACH

**1.1 Collaboration & Co-Management**  
*Work with partners and resource stewards to enhance shared responsibility*

**1.2 Knowledge Sharing**  
*Empower people to make responsible decisions through knowledge sharing and engagement*

**1.3 Regulation & Compliance**  
*Promote and uphold conservation rules through effective regulation, permitting, and enforcement*

### PIKO 'Ī *Purpose and Vision*

We connect piko 'ī, which is the point at the top of the head, to the Pono Practices pillar. This piko is used to connect to the past and tie Hawaiian cultural values and perspectives into how we properly manage aquatic environments and resources in Hawai'i today. The Fisheries Management Branch is the pillar lead.



Fisheries Management



## DAR Accomplishments

# Pono Practices

### PONO PRACTICE

1.1 Collaboration & Co-Management

1.2 Knowledge Sharing

1.3 Regulation & Compliance

**1.1 Collaboration & Co-Management:** Work with partners and resource stewards to enhance shared responsibility

## **Fisheries Management**

- Jointly managed fisheries with the **Western Pacific Regional Fishery Council**, the Council's Archipelagic Plan Team, Pelagic Plan Team, and Scientific and Statistical Committee; and the **Pacific Islands Fisheries Group** augmented by in-person fisher engagement in prioritizing issues.
- Participated in the 78th annual meeting of the **Pacific States Marine Fisheries Commission** in Boise, ID in September 2025.
- **Maui Navigation team** led fishers and community members to create an island plan to better manage our nearshore resources through pono fishing practices and proposed regulations, drafted with three rounds of scoping meetings.
- Adopted final rules establishing the **Maunalua Bay Fisheries Management Area (FMA)**. This was a community-based effort, led by Maunalua Bay fishers committed to long-term sustainable fishing in the Bay. The new rules prohibit night dive spearfishing and harvest of certain invertebrate species in Maunalua Bay.
- Made significant progress in the development of rules for the **Ka'ūpūlehu FMA** in collaboration with the Ka'ūpūlehu community and stakeholders. Hosted three public scoping meetings to gather feedback on the proposed draft rules.
- Co-produced the draft 10-year report for the **Hā'ena Community-Based Subsistence Fishery Area (CBSFA)** with Hui Maka'āinana o Makana.
- Installed **Kipahulu CBSFA** signage.
- Participated and provided guidance to East Maui community members, cultural practitioners and fishers from Ke'anae to Kaupo to create management priorities integrating local indigenous knowledge into the **Maui Hikina Huliāmahi regional CBSFA proposal**.
- DAR Holomua team supported community group Manu 'Iwa o ka Malanai (MIOM) to refine the pre-proposal for a **Kailua-Ka'ōhao, O'ahu FMA** with public scoping.



## DAR Accomplishments

# Pono Practices

## PONO PRACTICE

1.1 Collaboration & Co-Management

1.2 Knowledge Sharing

1.3 Regulation & Compliance

### *Papahānaumokuākea Co-Management*

- Participated in updating the **cultural briefing video** and the cultural briefing process.
- Contributed to research and management of **nuisance alga *Chondria tumulosa*** at Kuaihelani in coordination with co-managing agencies and partners
- Began early stage planning for a **State of Hawai'i Papahānaumokuākea plan** that will feed into a future PMNM Plan update.
- Continued active participation in co-management activities and meetings including participation in the **NOAA Office of National Marine Sanctuaries Reef Assessment and Monitoring Program scientific cruise** into PNMS.

### *Protected Species Program (PSP)*

- Developed and deployed **new seal crowding boards** in partnership with the Division of Boating and Ocean Recreation (DOBOR) at Maui boat harbors
- Responded to **over 120 protected species and marine wildlife emergencies** and public inquiries statewide, providing injury, entanglement, and stranding support, data collection, assessing deceased wildlife, and coordinating with cultural practitioners, DOCARE, NGOs, and NOAA.
- Assumed responsibility for the **NOAA East Hawai'i Marine Wildlife Hotline**
- Joined and co-led **PSP trainings** including UHH-MOP turtle response tagging; monk seals on Moloka'i with Hawai'i Marine Animal Response and NOAA; Reef Teach at Kahulu'u, West Hawai'i; Makai Watch at Hā'ena with the Shipman family, Nā Ala Hele Trail stewards in East Hawai'i, entanglement response and 12 new PSP volunteers for Kaua'i, and DOFAW monk seal pup, mother, and public safety.
- Helped guide oli (chant) and ho'okupu (tribute) in the beginning and end of turtle and monk seal tagging with UHH-MOP and NOAA, sharing from a chant written by Kia'i Kanaloa, **Ho'eha'eha, He mihi** (*Sincere Apologies for any pain endured*)
- Promoted public outreach and co-developed new **"Pono Cat Parent"** campaign with partners to prevent spread of toxoplasmosis parasite



DAR Accomplishments

# Pono Practices

PONO PRACTICE

1.1 Collaboration & Co-Management

1.2 Knowledge Sharing

1.3 Regulation & Compliance

**1.2 Knowledge Sharing:** Empower people to make responsible decisions through knowledge sharing and engagement

## *Hawaiian Cultural Perspectives, Values, Knowledge, and Language*

- Enhanced staff cultural competency through 'ōlelo Hawai'i training, **Ke Kumuko'a Sharing Session Series**, cultural partner workshops on kilo, huli'ia, and 'opihi management, and Makai Watch training
- Developed culturally grounded management strategies including **Ka'ūpūlehu FMA**, **East Maui kumu kānāwai** (code of conduct), and protected species protocols for tagging and burials with cultural practitioners
- Partnered with cultural experts Lokelani Brandt and kumu from Hui Ho'oleimaluō to host **three summer programs** sharing mo'olelo, pilina to place, and hands-on learning including invasive grass removal at Wailoa and Waiuli
- Completed Holomua 2-pager and brochure in 'ōlelo Hawai'i, 'ōlelo no'ēau estuary magnets, and DAR signage translations
- Augmented **DAR Regulated Species Profiles** with immersive cultural knowledge alongside life history, regulatory history, and monitoring data

KE KUMUKO'A

DAR Hawaiian Culture and Language Handbook



# DAR Accomplishments

# Pono Practices

## PONO PRACTICE

1.1 Collaboration & Co-Management

1.2 Knowledge Sharing

1.3 Regulation & Compliance

### Direct Engagement

- Reached over **4,000 individuals** through in-person education and outreach efforts statewide
- Engaged more than **800 K-12 students on Kaua'i** alone through classroom presentations and field experiences
- Conducted **25+ different educational programs serving 650+ participants in East Hawai'i**, including Department of Education schools, charter schools, private schools, homeschool groups, Boy Scouts, church youth groups, Parks & Recreation summer programs, fishing groups, and Makai Watch volunteers
- Served **507 students, 91 parents, and 47 teachers on Maui** through aquatic education programs covering pono fishing, coral reef ecology, streamflow, and watershed impacts
- Participated in **over a dozen major fishing tournaments on Maui** (Ulua Classic, Larry Libres Dive Tourney, Trucker Dukes Memorial, GT Mafia catch and release tourney), reaching **942 fishermen**
- Attended **19 community events in East Hawai'i**, including fishing tournaments, career fairs, and community gatherings, contacting approximately **2,500 people**
- Conducted **12 specialized presentations for Hawai'i County Ocean Safety and DOCARE districts** on shark incident protocols and non-resident fishing licenses, reaching **250 participants**
- Provided **Environmental Court-ordered training** to aquatic resource violators, educating them on regulations and conservation
- Welcomed **two new Outreach staff** to Hawai'i island districts





## DAR Accomplishments

# Pono Practices

## PONO PRACTICE

1.1 Collaboration & Co-Management

1.2 Knowledge Sharing

1.3 Regulation & Compliance

### Materials and Resources

- Distributed over 4,200 **fishing regulation booklets** and 1,000 **fork length rulers**, 400 **barbless circle hook** packets, and 1,200 **fishing/'ama'ama rulers**.
- Provided educational materials to **30+ new teachers** and flyers, literature, and stickers to **13 boat charters, fishing stores, and dive shops** on Kaua'i, and pono fishing guidelines for the [Outdoor Hawai'i webpage](#)
- Installed **strategic signage** for protected species (Maui), ocean safety (Ke'anae), and Maunalua Bay FMA fishing regulations at high-use locations
- Created educational fliers on **Fish Aggregating Devices (FAD)** care and best practices with community members and University of Hawai'i personnel
- Installed bulletin board at **Wailoa Small Boat Harbor** to facilitate fisher-to-fisher and DAR-to-fisher information sharing
- Aired two 30-second television spots encouraging pono reef practices, two [Voice of the Sea](#) episodes on [Waimea estuary](#) and [Ciguatera Poisoning](#), and two [Outside Hawai'i episodes](#) with the Mālama Learning Center on [Maunalua Bay](#) and [aquatic invasive species in Kāne'ohe Bay](#).
- Shared 163 posts to over **208,500 Instagram and Facebook users**, with over 1,000 comments and 6,000 shares
- Grew [Holomua newsletter](#) to 1,250 subscribers, adding 160+ in 2025 for place-based marine management information

### Reaching Fishers and Dealers

- Enhanced the [DAR Annual Catch Limit \(ACL\) Dashboard](#) by adding Kona crab and uku, providing real-time commercial catch monitoring
- Processed and verified over **50,200 commercial fisher and dealer reports** statutorily required under various licenses, permits, and registrations, ensuring comprehensive data collection for sustainable fisheries management
- Increased direct engagement with the fishing community through the **East Hawai'i Fishers Working Group** and **one-on-one talk story** sessions with commercial fishers at the DAR Kona Honokōhau office
- Facilitated processing of **statutory reporting requirements** for all fishing licenses, permits, and registrations, streamlining compliance with comprehensive customer service and outreach



## DAR Accomplishments

# Pono Practices

## PONO PRACTICE

1.1 Collaboration & Co-Management

1.2 Knowledge Sharing

1.3 Regulation & Compliance

**1.3 Regulation & Compliance:** Promote and uphold conservation rules through effective regulation, permitting, and enforcement

### Environmental Review

- Facilitated **384 environmental review requests** and issued 44 Special Activity Permits and 6 amendments.
- Launched **Coral Restoration Framework Tool** in May, dramatically improving efficiency of coral restoration permit processing
- Convened first-ever **Coral Restoration Scientific Advisory Board** to guide permit decisions
- Reviewed 18 Film Permits and issued 1 Letter of Authorization (LOA) for Aquaculture Facility Licenses (AFL), plus 3 Letters of Clarification (LOC).

### Damage Recovery & Enforcement

- Pursued a **\$1.8 million settlement** (pending) against vessel owners who damaged 119 coral colonies and 1,640 m<sup>2</sup> of live rock in Honolua Bay, Maui and \$30,000+ settlement with catamaran owner for damaging 36 coral colonies in Honolua Bay
- Negotiated Navy agreement for **P8 Poseidon airplane** crash in Kāne'ohe Bay, including \$60,000+ reimbursement and purchase of aquaculture sea urchins for invasive algae removal
- Successfully pursued **vessel grounding** damages in Wai'anae (60+ square meters of live rock); drafted enforcement actions against **illegal longline fishing** off Kona Coast (\$10,000+) and **unauthorized commercial helicopter activities** in Pūpūkea Marine Life Conservation District (\$10,000)
- Piloted **KahaWAI Watch for Ālia Stream investigation**, which helped identify a blockage and potential illegal take of water
- Provided aquatic resource **expertise to DOCARE** with species identification training to support regulatory actions such as pending \$10,000 penalty for fisher who engaged in unlawful longline fishing off the Kona coast.



## DAR Accomplishments

# Pono Practices

## PONO PRACTICE

1.1 Collaboration & Co-Management

1.2 Knowledge Sharing

1.3 Regulation & Compliance

### Regulatory Updates

- Established the **Maunalua Bay Fisheries Management Area**, O'ahu (Hawai'i Administrative Rules Chapter 13-48.5)
- Received approval to hold public hearings on proposed new chapter of Hawai'i Administrative Rules (chapter 13-77.1) regulating the **aquarium fishery**
- Further aligned Hawai'i Administrative Rules (chapter 13-76) with new federal rules implementing the **2018 Vessel Incidental Discharge Act**
- Continued progress with Hui Kahuwai Marine Life Advisory Council (formerly the Ka'ūpūlehu Marine Life Advisory Council) to develop management plan and rulemaking proposal for waters of **Ka'ūpūlehu** on the island of Hawai'i
- Explored administrative rulemaking options for enhanced protections of **anchialine ecosystems** and their endemic species following designation of 'ōpae 'ula as official State shrimp and a narrowed scope of the federal Clean Water Act
- Pilot **KahaWAI Watch** Ālia Stream investigation resulted in identifying a blockage and potential illegal take of water.

### Licenses and Permits

- Launched new License Management System (LMS) to manage **Nonresident Recreational Marine Fishing Licenses (NRMFL)** and **Lay Net Permits (LNP)**
- Implemented optional Commercial Marine Vessel License (CMVL) in April 2025; over **150 vessels** obtained CMVL to date, majority being longline vessels
- Established the mandatory **Commercial Marine Dealer License (CMDL)** effective October 2025 with approximately one hundred dealers licensed to date
- Generated over **\$1.2 million in revenue** from more than **46,000 fishing licenses, permits, and registrations**, supporting critical fisheries management and conservation programs statewide
- The total number of commercial use permit (CUP) operators contributing to Aloha i ke Kai (Hawai'i Ocean Stewardship Fee Program) **increased by 60% to 547 total**. Operators collected **\$3M from \$1 per passenger** for marine commercial activities, allowing ocean users to reinvest in ocean stewardship each year



# MONITORING

## PILLAR GOAL

*Support effective and adaptive management with data collection and analysis to detect changes and progress over time.*

## STRATEGIC APPROACH

**2.1 Mauka, Muliwai, and Makai**  
*Apply science-driven monitoring to inform management actions across ridge-to-reef systems*

**2.2 Scientific Excellence & Innovation**  
*Advance knowledge through rigorous research and technological innovation*

**2.3 Data Sharing & Access**  
*Improve methodological consistency and open collaboration*

### PIKO 'Ō *Current and Ongoing Projects*

We connect piko 'ō, which is located at the belly button and represents your gut, to the Monitoring pillar. This piko is used to connect to the present and our gut intuition, where monitoring is the “gut check” of the work that we do and tells us whether or not our work is having the intended outcomes or if any changes need to be made.



MARR and Ecosystems



## DAR Accomplishments

# Monitoring

## MONITORING

### 2.1 Mauka, Muliwai, Makai

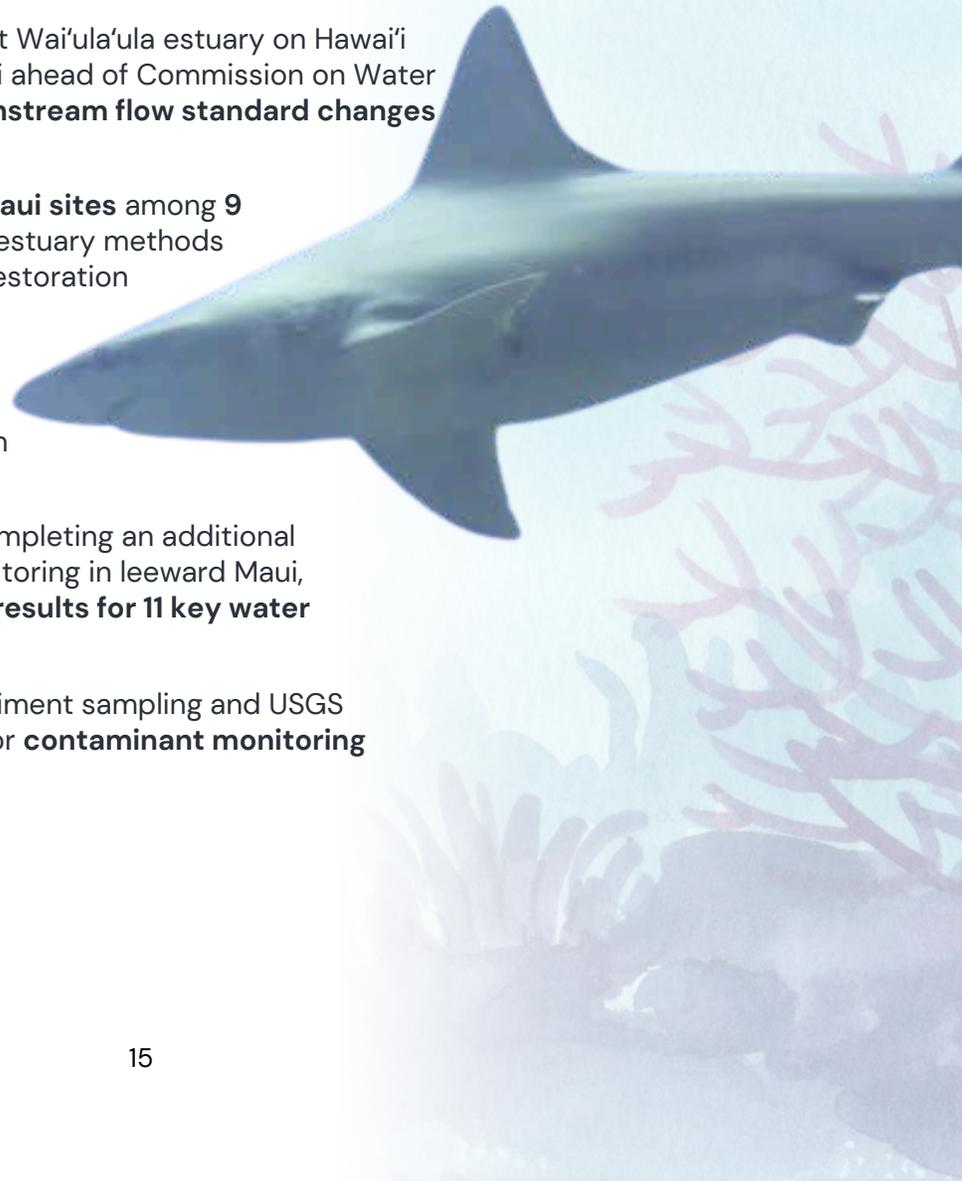
#### 2.2 Scientific Excellence & Innovation

#### 2.3 Data Sharing & Access

**2.1 Mauka, Muliwai, and Makai: Apply science-driven monitoring to inform management actions across ridge-to-reef systems**

### *Watersheds & Water Quality*

- Completed a comprehensive **Water Quality Strategy** with the Mauka to Makai Water Quality Working Group, DAR, and DOH.
- Measured **significant increases in juvenile fish** numbers following restoration work by Hosea Lovell Foundation since 2021 in Anahola muliwai (estuary) on windward Kaua'i
- Established baseline monitoring at Wai'ula'ula estuary on Hawai'i Island and Koloa Landing on Kaua'i ahead of Commission on Water Resource Management (CWRM) **instream flow standard changes** for mauka streams.
- Collaborated with CWRM on **24 Maui sites** among **9 streams** and added new coastal/estuary methods to specifically track land-based restoration impacts
- Tracked **freshwater seepage, salinity, and other groundwater outputs** with UH collaborations on Hawai'i Island.
- Supported Hui O Ka Wai Ola in completing an additional year of coastal water quality monitoring in leeward Maui, adding more than **600 sampling results for 11 key water quality parameters**
- Supported DOH in water and sediment sampling and USGS scientists with biotic collection for **contaminant monitoring** off fire-impacted Lahaina sites





## DAR Accomplishments

# Monitoring

## MONITORING

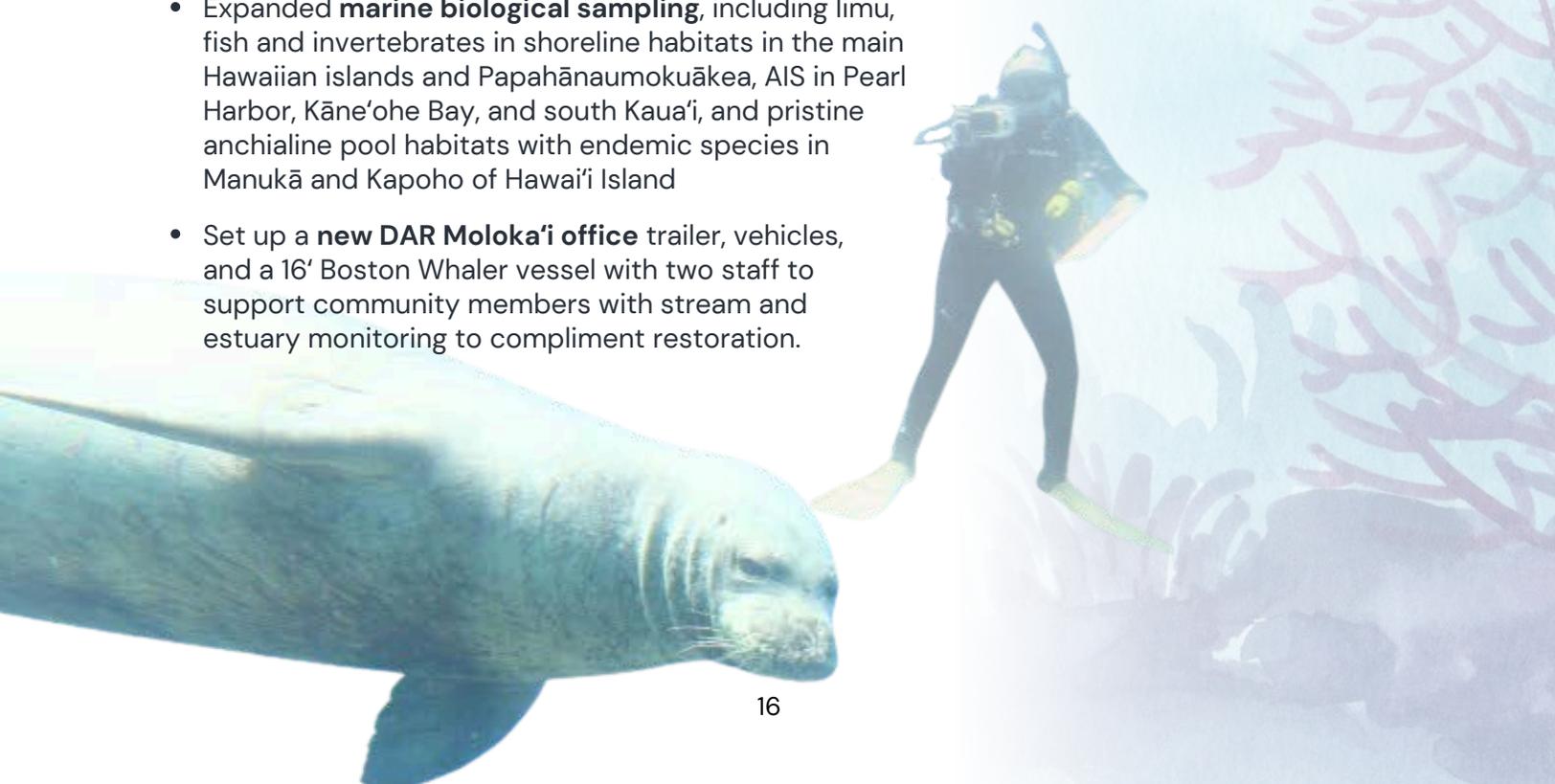
2.1 *Mauka, Muliwai, Makai*

2.2 *Scientific Excellence & Innovation*

2.3 *Data Sharing & Access*

### *Priority Research and Data Collection*

- Surveyed **estuaries** statewide at Waimea, Anahole, and Hanalei on Kaua'i; Hilo Bay, Wailoa, 'Ohele, Waiākea Loko, Pelekane, Kīholo, Puako, Wai'ula'ula on Hawai'i Island; Wailupe, Paikō, and Kahana Bay on O'ahu; and Honokōhau, Honomanū, and Kealia on Maui
- Completed statewide **Fish and Habitat Utilization Surveys (FAHU)** surveys, characterizing the diversity and abundance of over 100 species of fishes and corals in nearshore waters. FAHU surveys also helped establish baselines for the newly-implemented Fisheries Management Area in Maunalua Bay
- Interviewed **1,923** shoreline and boat fishers through the **Hawai'i Marine Recreational Fisheries Surveys (HMRFS)** statewide
- Monitored **72 of the state's Hawaiian monk seals** and **34 turtle nests** statewide
- Incorporated Structure-from-Motion (SfM) at seven deep **Coral Reef Assessment and Monitoring Program (CRAMP)** sites on Kaua'i
- Tracked marine management at **25 West Hawai'i Aquarium Project sites** and **10 coral settlement** monitoring sites
- Expanded **marine biological sampling**, including limu, fish and invertebrates in shoreline habitats in the main Hawaiian islands and Papahānaumokuākea, AIS in Pearl Harbor, Kāne'ohe Bay, and south Kaua'i, and pristine anchialine pool habitats with endemic species in Manukā and Kapoho of Hawai'i Island
- Set up a **new DAR Moloka'i office** trailer, vehicles, and a 16' Boston Whaler vessel with two staff to support community members with stream and estuary monitoring to compliment restoration.





## DAR Accomplishments

# Monitoring

**2.2 Scientific Excellence & Innovation:** Advance knowledge through rigorous research and technological innovation

### *Emerging Technology and Methodologies*

- Trained **12 staff in SfM photogrammetry** to support integration into permanent monitoring and new sites such as Kalepolepo Beach on Maui to assess coral cover impacts from land-based sources of pollution
- Launched **Fish Aggregation Device (FAD)** acoustic monitoring pilot project to use vessel noise as proxy for fishing effort
- Implemented advanced **eDNA sampling** statewide using purpose-built backpack system with self-preserving filter packs at all estuary sites, collecting **48 samples** across four Hawai'i Island locations with improved efficiency and reduced contamination risk
- Conducted **drone surveys** for Moloka'i Pili Nā Moku sites, Kaunakakai Wharf invasive algae monitoring, and Maui Kalepolepo SfM site selection
- Launched **Hawai'i Boating Activity and Uku Catch Survey** with NOAA to create vital annual estimates for sustainable fishery management
- Piloted **stream camera method** to quantify aquatic resources; standardized stream survey methods with CWRM for broader coverage

## MONITORING

*2.1 Mauka, Muliwai, Makai*

*2.2 Scientific Excellence & Innovation*

*2.3 Data Sharing & Access*

## DAR Accomplishments

# Monitoring

### Capacity and Resources

- Hosted 13 virtual **DAR Sharing Sessions** to cultivate intra-division collaboration and exchange.
- Presented DAR projects at the **Hawai'i Conservation Conference, International Conference, 4th Hawai'i Coral Restoration Symposium**, and the **American Fisheries Society Pacific Island Chapter**
- Supported **two DAR staff to complete graduate studies** in *Spectral Signature of Coral Disease* and *Spatial Patterns and Environmental Drivers of Black-Band Disease (BBD) in Montiporid Corals* at 'Anini Reef, Kaua'i
- Dramatically **increased diving capacity**: East Hawai'i achieved highest number (6) of active divers in its history; West Hawai'i conducted 385 dives over 87 field days with 14 divers; Kaua'i maintained 5 active divers completing over 300 dives
- Trained staff across multiple disciplines: **FAHU** and **CRAMP** survey methods, **mangrove removal**, Structure-from-Motion (**SfM**) techniques, **salinity** mapping, **stream** and **coastal** monitoring, and **water quality** sampling
- Hosted two **Motorboat Operator Certification Courses** with NOAA; 8 staff completed Boat Handling course; standardized boating practices statewide
- Digitized collected data into **statewide database**, including 3+ year backlog of permanent monitoring sites, all Maui County fish and coral, Maunalua Bay FAHU, and newly-accommodated stream and coastline monitoring
- Upgraded **Wailoa Fisheries Research Station** with fiber optic internet, photovoltaic power, and hired intermittent staff for data processing backlog
- Established data request policy and internal **DAR research approval process** with priority management questions and SOPs

## MONITORING

2.1 Mauka, Muliwai, Makai

2.2 Scientific Excellence & Innovation

2.3 Data Sharing & Access



## DAR Accomplishments

# Monitoring

## MONITORING

2.1 Mauka, Muliwai, Makai

2.2 Scientific Excellence & Innovation

2.3 Data Sharing & Access

### 2.3 Data Sharing & Access: Improve methodological consistency and open collaboration

#### Research Partnerships

- Supported **graduate students and interns** with the Hawai'i Cooperative Fishery Research Unit (**HCFRU**), UHH **PIPES** program, and **TCBES** to develop research skills in estuaries, stock assessment and life history studies, and native species restoration
- Contributed to multi-partner '**Āko'ako'a** reef restoration team's coral **thermal tolerance** experiments in West Hawai'i with ASU
- Partnered with UH Sea Grant to process camera imagery using **AI-automated** stream flow and habitat identification innovations
- Initiated exploratory light trap coral larval recruitment study with Drs. Lilian Tuttle of **HCFRU** and Justin Suca of UHM **SOEST**
- Collaborated with **Hawai'i Monitoring and Reporting Collaborative (HIMARC)** to design new marine monitoring plan for Maunalua Bay and O'ahu
- Formalized collaboration **Mālama Nā 'Āpapa Koloa Landing** fish and habitat assessment, sharing data to develop effective monitoring strategies
- Developed collaborative database for **Hawaii Invasive Octocorals Working Group** enabling partners to submit survey data and map all surveyed locations for *Unomia stolonifers*

#### Standards and Protocols

- Created monitoring plans and shared SOPs for **Pili Nā Moku** projects in 5 moku statewide
- Updated and disseminated **Kōkua Community-Based Monitoring Framework manual** for robust, place-based programs
- Created **limu monitoring guide** for school use and worked with O'ahu community stewardship group to develop and conduct area-specific limu monitoring

#### Data Visualizations

- Launched **Hawaiian Estuary Viewer** with Coastal Zone Management and Hawai'i State GIS for public access
- Created an online, interactive **DAR West Hawai'i Monitoring Sites Map**





# RESTORATION

## PILLAR GOAL

*Enhance ecosystem health and resilience by preventing damage and restoring degraded habitats and fisheries.*

## STRATEGIC APPROACH

**3.1 Collaboration & Partnership**  
*Build trust and collective capacity for sustainable and enduring restoration success*

**3.2 Resilience & Enhancement**  
*Strengthen ecosystems to withstand changing conditions and disturbances*

**3.3 Prevention, Implementation, & Rapid Response**  
*Proactively address threats to aquatic ecosystem health*

PIKO 'Ā *Results and Legacy for Future Generations*

We connect piko 'ā, which is the loins and is associated with procreation, to the Restoration pillar. We use this piko to connect to the future and to begin paving the path of restoration and revitalization that we hope to leave for future generations.

Mitigation, Aquaculture, Resiliency, and Restoration



# DAR Accomplishments

## RESTORATION

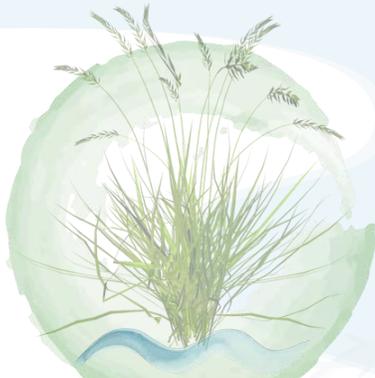
# Restoration

3.1 Collaboration & Partnership

3.2 Resilience & Enhancement

3.3 Prevention, Implementation, & Rapid Response

### 3.1 Collaboration & Partnership: Build trust and collective capacity for sustainable and enduring restoration success



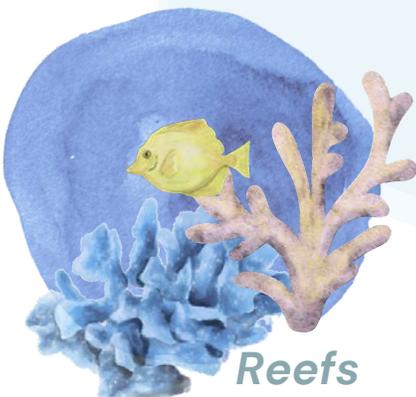
Wetlands

- Supported partnership to restore **24 acres of wetland** habitat at He'eia, including 20 acres of constructed wetlands and traditional agricultural systems, **139 acres of green infrastructure** (floodplain restoration) integrating indigenous traditional Hawaiian knowledge, and investigating native plant carbon sequestration potential across freshwater, wetland, estuarine, and riparian habitats
- Partnered with **Mālama Maunalua** and **Maunalua Fishpond Heritage Center** on Paiko Lagoon restoration to enhance native fish habitat, increase water circulation, and revive the lagoon as important juvenile fish nursery



Intertidal

- Designed new **limu lab** at Ānuenuē Fisheries Research Center (AFRC) focused on limu bio-banking and life-history work, and provided facilities for the **Ewa Limu Hui** to train 10 interns and cultivate limu for community restoration and education.
- Provided an estimated **500 pounds of fresh limu** from DAR's AFRC for community restoration with the **Waimanalo Limu Hui** events
- Collaborated with **'Ike Lawai'a** (Kealakekua Bay MLCD) and **Hui Kahuwai** (Ka'ūpūlehu FMA) for two **community-led non-native species removal** events



Reefs

- Developed **coral removal, transport, reattachment, and monitoring protocols** for man-made structures, including day-use moorings, pipes, offshore fish pens, and cement structures for minimizing planned impacts.
- Collaborated with **The Kohala Center (Reef Teach)** to establish coral restoration project within Kahu'u Bay
- Collaborated with multi-partner **coral hui, TNC, and ASU** in outplanting corals from decommissioned offshore fish pen
- Nearly \$1M allocated through **Aloha i ke Kai** to limu restoration, reef enhancement, day-use mooring buoys, marine debris, and invasive species management



# DAR Accomplishments

## Restoration

### RESTORATION

3.1 Collaboration & Partnership

3.2 Resilience & Enhancement

3.3 Prevention, Implementation, & Rapid Response

### 3.2 Resilience & Enhancement: Strengthen ecosystems to withstand changing conditions and disturbances

#### Fisheries and Native Species

- Stocked ~22,000 rainbow trout with 3,305 visitors logging 16,642 catches at Pu'u Lua Reservoir in Kōke'e, Kaua'i
- Initiated 'ama'ama stock enhancement project at Wailoa Fisheries Research Station
- Launched new papio aquaculture project with UH Mānoa and Oceanic Institute
- Updated conservation action priorities in the **2025 State Wildlife Action Plan** for Species of Greatest Conservation Need (SGCN)
- Developed **wetland restoration permitting guide** with DOFAW to support efficient, compliant wetland and estuary restoration
- Contributed \$200,000 of the **Nonresidential Recreational Marine Fishing License (NRMFL)** revenue towards the state's **fish aggregating device (FAD)** collaborative partnership with UH Hawai'i Institute of Marine Biology (HIMB)





# DAR Accomplishments

# Restoration

## RESTORATION

3.1 Collaboration & Partnership

3.2 Resilience & Enhancement

3.3 Prevention, Implementation, & Rapid Response

### Biocontrol

- Outplanted **101,720 hatchery-raised juvenile urchins** for invasive algae biocontrol in Kāneʻohe Bay
- Developed and implemented new efficient techniques for counting larval urchins at the **AFRC urchin hatchery**
- Working collaboratively with **State Veterinarian (Department of Agriculture and Biosecurity)** to address biosecurity and disease detection protocols.

### Pilot Restoration

- Supported **Kauaʻi's first coral nursery**, built at Nōmilu fishpond with **Hoʻomalū Ke Kai**; began piloting restoration at the new [Kauaʻi Coral Restoration Nursery](#).
- Established **Kealakekua Bay** and **Kahaluʻu Bay** coral restoration pilots of reattached corals; began testing fragmentation and micro-fragmentation in the **ʻĀkoʻakoʻa** nursery

### Biodiversity

- Collected and maintained genetically distinct lineages of **ʻōpae ʻula** (native Hawaiian shrimp) in the **Anchialine Pool Ark** at AFRC
- Expanded the Hawaiʻi Coral Restoration Nursery (HCRN) **Rare Coral Ark** to maintain nearly **50 rare, uncommon, and endemic coral species**, and outplanted endemic nursery-grown corals to south shore Oʻahu

### Climate Resilience

- Advanced **biocultural carbon sequestration using native plants** to strengthen wetland and estuarine ecosystem resilience
- Screened **60 genotypes of *P. meandrina*** for thermal tolerance and produced over **1,000 corals** of 36 genotypes with ASU on Ruth Gates Coral Restoration Innovations Grant





## DAR Accomplishments

# Restoration

### 3.3 Prevention, Implementation, & Rapid Response: Proactively address threats to aquatic ecosystem health

## RESTORATION

3.1 Collaboration & Partnership

3.2 Resilience & Enhancement

3.3 Prevention, Implementation, & Rapid Response

### Threat Monitoring and Reporting

- Developed statewide "**Eyes of the Reef**" reporting system and interactive dashboard for notifying DAR of threats and informing rapid response efforts
- Responded to **171 calls to protected species hotline**; provided emergency response support with NOAA and local partners
- **833-4-DA-NETS reporting hotline** supported removal of over **1,500 lbs of marine debris** with Hawai'i Wildlife Fund and Ocean Defenders Alliance from Kailua-Kona coastline

### Rapid Response

- Rapidly responded to **7 incipient AIS detections**, including eradicating new population of invasive soft coral ***Capnella spicata*** from Kāne'ohe Bay within 19 days, and also addressed **majano anemone** presence with educational signage in the bay recommended by Ko'olaupoko community
- Responded to reports of non-native coral species at 'Anini; worked with AIS team on non-native ***Avrainvillea erecta*** reports on south and west shores of Kaua'i; confirmed *A. erecta* across large sandy benthic habitats and implemented spread prevention, responsible anchoring BMPs, and expanded surveillance
- Provided technical assistance to **Paepae o He'eia** for **invasive upside-down jellyfish** (*Cassiopea sp.*) assessment and control at He'eia Fishpond
- Responded to **5 West Hawai'i ship grounding** events with **3 coral damage assessments**
- Assisted **TNC** with winter swell reef repair, reattaching **313 corals** in restoration plots at Kahuwai Bay, West Hawai'i



# DAR Accomplishments

# Restoration

## RESTORATION

3.1 Collaboration & Partnership

3.2 Resilience & Enhancement

3.3 Prevention, Implementation, & Rapid Response

### Staff Training and Skill Development

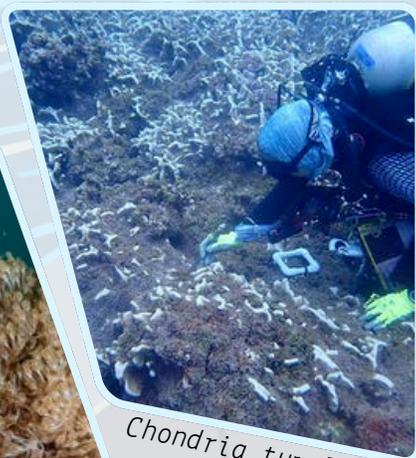
- Trained **65+ DAR staff** division-wide on ***Unomia stolonifera*** identification, detection, and response protocols including in-water heat treatment and SfM photogrammetry invasive species quantification methods.
- Organized and facilitated **O'ahu Invasive Marine Species and Marine Disease Workshop** hosted by USGS
- Built partner capacity through joint field operations and training with **USGS, NOAA, USFWS, NAVFAC, UH, He'eia NERR, Paepae o He'eia, and Bishop Museum**

### Prevention

- Surveyed **1,495 recreational vessels** at **15 harbors** statewide to assess biofouling levels; presented findings at 2025 Pacific Ballast Water and Biofouling Group Meeting
- Analyzed and reported on **995 Ballast Water Reporting Forms** from 2024 and collected approximately **1,000** in 2025
- Conducted ***Chondria tumulosa*** lethality and decontamination trials at **Midway Atoll** testing heat-based alternatives to bleach; results informed updates to biosecurity best management practices



*Unomia stolonifera*



*Chondria tumulosa*



*Avrainvillea erecta*



*majano anemone*



*Cassiopea sp.*



# PLACE-BASED PLANNING

## PILLAR GOAL

*Partner with communities and stakeholders to co-produce and implement management strategies at local to regional scales.*

## STRATEGIC APPROACH

**4.1 Community-Driven Process**  
*Co-develop management strategies with stakeholders through meaningful engagement*

**4.2 Ecosystem-Based Management**  
*Implement science-driven and culturally informed approaches at the local to regional scale, mauka, muliwai, and makai*

**4.3 Adaptive Management**  
*Enable responsive and continuous evaluation based on changing conditions and emerging knowledge*

**PIKO 'Ū**  
*Connection to Land and Sea Where Research is Conducted and the Community of that Place*

We connect piko 'ū, located at the sole of the foot, to the Place-Based Planning pillar. This piko is used to connect us to place and to put the unique cultural, historical, biological, and geographical features of a place at the forefront of its management.



Ecosystem Management



# DAR Accomplishments

# Place-Based Planning

## PLACE-BASED PLANNING

4.1 *Community-Driven Process*

4.2 *Ecosystem-Based Management*

4.3 *Adaptive Management*

**4.1 Community-Driven Process:** Co-develop management strategies with stakeholders through meaningful engagement

### Statewide

- Engaged over **300 fishers at 17 in-person events** and **1,000 fishers online** statewide; established network of 50 hui members through 6 island-specific meetings to serve as consultants for the Reef Habitat Plan and the Makai Restoration Action Plan for Goal 3: Fish Habitat Enhancement

### Kaua'i

- Developed project concepts and funding proposals for **Hule'ia River and Alakoko fishpond** systems on Kaua'i with **Mālama Hule'ia**, integrating reef, riparian, estuary, and fishpond restoration

### O'ahu

- Worked with community and agency partners to gather mana'o for new coral restoration sites in **South O'ahu**
- Engaged **Ko'olaupoko community groups** on proposed emergency eradication of invasive majano anemone from Kāne'ohe Bay
- Provided support to **Mana 'Iwa o ka Malani** (MIOM) to draft strategies for pu'uhonua (refuge) in **Ka'ōhāo**



# DAR Accomplishments

# Place-Based Planning

## PLACE-BASED PLANNING

4.1 *Community-Driven Process*

4.2 *Ecosystem-Based Management*

4.3 *Adaptive Management*

### *Maui Nui*

- Convened the Holomua Marine Initiative **Maui Navigation Team**, a group representing ten island moku with generations of knowledge and stewardship, to plan and develop the island-wide management proposal draft
- Conducted 4 Information Exchanges/public scoping meetings to share the island-wide draft proposal and gather feedback, reaching 80 fishermen in **Paia, Upcountry, and Kīhei**
- Helped **Lānaʻi** community explore size limit options for possible future regulations through life history literature reviews
- Supported **Punalau** wetland and fishpond restoration planning on **Molokaʻi** with Molokaʻi Land Trust, Pacific Birds Habitat Joint Venture, and community partners, integrating freshwater inputs, wetland habitat, and estuarine connectivity
- The DAR Native Hawaiian Program instilled Hawaiian culture and language where applicable and appropriate in the Holomua Marine Initiative Process where multiple resources such as the Holomua 2-pager and the Holomua brochure/pamphlet were translated into ʻōlelo Hawaiʻi (Hawaiian language) by our program to provide resources that are both appreciated and well viewed by local Hawaiian communities.
- Made connection with lineal descendants from the specific Moku's planned for future restoration work through the Pili Na Moku projects on Maui & Molokaʻi



# DAR Accomplishments

# Place-Based Planning

## PLACE-BASED PLANNING

4.1 Community-Driven Process

4.2 Ecosystem-Based Management

4.3 Adaptive Management

Hawai'i

- Began Hawai'i Island **Holomua Marine Initiative** process with **15 outreach events** and **30 community meetings** with **15 island partners**
- DAR **Hawaiian Culture and Language Program** was engaged throughout the planning and communication strategies to help encourage and empower local communities to participate and be at the forefront of co-developing the management strategies
- Worked with **Hui Kahuwai** to host 3 public scoping events and review proposed rules for **Ka'ūpūlehu FMA**; collaboratively applied for NSF funding with **Hui Kahuwai, UH,** and **TNC** to build monitoring capacity

West

- Regularly attended meetings and maintained communication with **14 community-based working groups** for restoration projects and resource management needs
- Fulfilled **10 different data requests** from multiple partners (UHH, NOAA, HIMARC) and internal DAR project working groups (Holomua, fisheries, etc)

East

- Collaborated with **KapuKapu Ohana, TNC, 'Ike Lawai'a, Ho'āla Kealakekua Nui, and Hawai'i State Parks** on **Kealakekua Bay** restoration planning
- Engaged communities of **Pepe'ekeo** and **Keaukaha**; initiated engagement with **Lower Puna** and **Punalu'u** communities
- Initiated conversations with **Makahaloa Fishing Association** on **Kawainui** management
- Engaged East Hawai'i stakeholders on **'ama'ama stock enhancement** appropriateness and implementation
- Hosted two Holomua Marine Initiative public listening sessions alongside the **Hawai'i Fisherman's Alliance for Conservation and Tradition (HFACT)**



# DAR Accomplishments

# Place-Based Planning

## PLACE-BASED PLANNING

4.1 *Community-Driven Process*

4.2 *Ecosystem-Based Management*

4.3 *Adaptive Management*

### 4.2 Ecosystem-Based Management: Implement science-driven and culturally informed approaches at the local to regional scale, mauka, muliwai, and makai

#### *Diverse Knowledge Systems*

- Integrated additional **indigenous and place-based history** into draft management plans for existing Marine Managed Areas on Maui
- Planned **district-specific community listening sessions** in 2026 to scope estuary restoration and center place-based knowledge
- Developed site-specific restoration plans in collaboration with community groups for **Kahalu'u Bay** and **Kealakekua Bay**
- Created proposal to work in **Kona moku of Kaua'i** in 2026 to identify and restore community priority areas

#### *Holistic Planning*

- Drafted the **Maui Management Plan** with revisions ongoing in 2026
- O'ahu District staff designed aquatic survey plan for moku of **Wai'anae** for Pili Nā Moku grant 'Āina restoration through community governance to advance climate resilience in partnership with Sea Grant
- Developed proposal for makai monitoring considering mauka restoration efforts as part of Pili Nā Moku project for **Kohala, Hawai'i Island**
- Partnered with Szuster lab at University of Hawai'i at Mānoa to conduct carrying capacity study for **Old Kona Airport MLCD**, including robust analysis of social and cultural value considerations alongside biological assessment
- Collaborated with **Mālama Pūpūkea-Waimea** to conduct carrying capacity study addressing threats to marine life from human activities at **Pūpūkea Marine Life Conservation District**; see [final report submitted for 2026 legislature review](#)
- Designed and carried out pilot study in **Kaumakani** to address community concerns around boating and snorkeling impacts to habitat and subsistence fisheries



# DAR Accomplishments

# Place-Based Planning

## PLACE-BASED PLANNING

4.1 *Community-Driven Process*

4.2 *Ecosystem-Based Management*

4.3 *Adaptive Management*

### Cross-Jurisdictional Collaboration

- Supported **DOFAW O'ahu** planning and funding development for **Pouhala Marsh Wildlife Sanctuary** restoration and community-based stewardship
- Convened **watershed working groups** 4 times for **West Maui** and 3 times for **South Maui**, including community stakeholders, agency staff, and subject area experts collaborating on land-based pollution challenges
- Hosted **floating workshop** for **Maui** decision-makers, highlighting challenges and collaborative solutions
- Worked with **Kaua'i Agricultural Association** and **CWRM** to balance trout needs at **Pu'u Lua** reservoir with local farmer water needs
- Reconvened **Hawai'i Coral Bleaching Collaborative** for coordination of coral bleaching response by DAR and federal, state, and local partners
- Collaborated with **Hawai'i Emergency Reef Restoration Network** to create rapid response plans for emergency coral restoration and storm response
- Co-led **USCRTF Pacific Preparedness Working Group**; served on **CGAPS** Steering Committee and **HISC** Resources Working Group





# DAR Accomplishments

## Place-Based Planning

## PLACE-BASED PLANNING

4.1 Community-Driven Process

4.2 Ecosystem-Based Management

4.3 Adaptive Management

### 4.3 Adaptive Management: Enable responsive and continuous evaluation based on changing conditions and emerging knowledge

- Met with community groups and held one-on-one talk story sessions to gather input for management goals ahead of initiating the **Holomua process on Hawai'i Island**, incorporating lessons learned from Maui process
- Conducted FAHU surveys to establish baseline data before enactment of the **Maunalua Bay Fisheries Management Area**
- Completed **SfM 3-D spatial models of AIS** infestations to quantify extent, guide eradication planning, and establish post-treatment evaluation benchmarks
- Working on establishing **Ka'ūpūlehu 'opihi fisheries management plan** for fishery opening after 10-year closure
- Identified **management thresholds for 73 sites** to detect 30% change in fish biomass between shoreline FAHU survey years
- Surveyed AIS threats of *Avrainvillea erecta* across large sandy benthic habitats at three **Kaua'i south shore sites; 169 acres of Pearl Harbor** outside known *Unomia stolonifera* and *Capnella cf. spicata* infestation zone; and 25 patch reefs of **Kāne'ohe Bay** and **Waikīkī MLCD**
- Outplanted invasive algae biocontrol urchins based on SNAP survey prioritization, mitigating approximately **12.6 acres** of reef habitat impacted by invasive algae in Kāne'ohe Bay
- Refined AIS strategies with **small-scale lethality trials** on *Anemonia manjano*, *Chondria tumulosa* **lethality and decontamination** trials at Midway Atoll.
- Initiated review and analysis of **2016–2025 leeward Maui coastal water quality data** in partnership with Hui O Ka Wai Ola



# Pono Practices

**STATEWIDE** Strengthen **protected species partnerships** with cultural practitioners and response partners to support marine animal response efforts, efficiency, hotlines, signage, and engagement; roll out 2026 Year of Coastal Kuleana campaign with June 6 statewide stewardship event

**KAUAI** Complete 10-year monitoring report and analysis for **Hā'ena Community Based Subsistence Fishery Area** and organize public share out sessions of 10-year results in collaboration with Hui Maka'āinana o Makana

**O'AHU** Integrate results from the Mālama Pūpūkea-Waimea carrying capacity study into management planning for **Pūpūkea MLCD**

**MAUI NUI** Create **DAR fishing education programs** utilizing DAR vessel and ramp up programs within schools and communities

**MAUI NUI & HAWAI'I** Complete **Holomua Marine Initiative** process on Maui, initiate the conversation on Lāna'i, and launch on Hawai'i Island with seven regional information exchanges and formation of navigation teams

**WEST HAWAI'I** Adopt final rules for **Ka'ūpūlehu FMA** upon completion of 10-year try wait period supported by co-developed outreach with Hui Kahuwai

**EAST HAWAI'I & KAUAI** Hire **new outreach specialists** to increase culturally appropriate community engagement

**NWHI** Finalize transition and publish **Papahānaumokuākea Marine National Monument** website



# Monitoring

## MONITORING

2.1 *Mauka, Muliwai, Makai*

2.2 *Scientific Excellence & Innovation*

2.3 *Data Sharing & Access*



**STATEWIDE** Add six **Pili Na Moku** coordinators and technicians to support ridge-to-reef monitoring with partners; Expand **FAHU** surveys, including Moloka'i, Puna and Kā'u on Hawai'i Island, and East Kaua'i, and new locations around O'ahu, and explore recreational catch estimates using new **HMRFS** data collection design



**KAUA'I** Support **CWRM instream flow restoration** monitoring at Waikomo stream and complete a 5-year monitoring report for 'Anini Reef

**OAHU** Develop and **standardize SfM** methods for tracking volumetric change of coral colonies and HCRN coral modules

**MAUI NUI** Outfit a **wet lab** to support water quality monitoring work on Moloka'i and investigate **coastal primary productivity**



**WEST HAWAII** Establish temporary sites from **'Upolu Point** in North Kohala to the southernmost reach of South Kona at **Kalaunamana**

**EAST HAWAII** Develop intertidal survey methodology for new monitoring effort

**FISHERIES** Produce stock assessments for **kala**, ***Naso unicornis***, and ***Scarus rubroviolaceus***; **analyze and publish FAD acoustic monitoring study and uku catch survey results**

# Restoration

**MARR** Convene **Hawai'i Coral Bleaching Collaborative** and join **Hawai'i Emergency Reef Restoration Network** training; draft **Ballast Water & Biofouling** Program Strategic Plan and hire two staff to implement inspections; update the **Eyes on the Reef** website and training materials; develop an agreement regarding **VIDA** inspections with the USCG

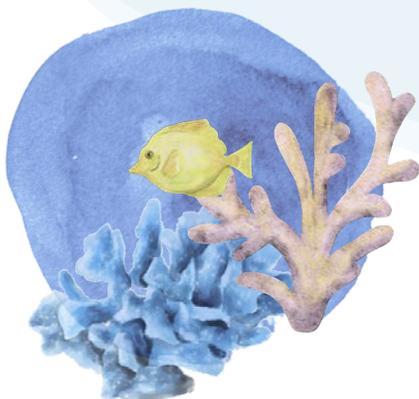
**KAUA'I** Update trout program facilities at the **Puu Lua Reservoir**; scale capacity at the land-based **Kaua'i Coral Restoration Nursery** at Nōmilu Fishpond

**OAHU** Eradicate invasive manejo anemone from **Kāne'ohē Bay**; expand the **Hawai'i Artificial Reef program** with a new biologist to implement the Strategic Plan; develop **streamlined permitting** process for AIS removal

**MAUI NUI** Document stream flow and land-based restoration outcomes at **Haiku stream** and coastal areas

**WEST HAWAII** Complete the second year of **coral thermal tolerance** testing with **ASU** in the 'Āko'ako'a nursery and restore reefs with **The Kohala Center** within **Kahalū'u Bay**

**EAST HAWAII** Restore **Waiākea Pond** estuary habitat; explore linkages between surface and groundwater discharge and **coral reef thermal tolerance**



# Place-Based Planning

**ECOSYSTEM** Launch **Holomua on Hawai'i Island** in May 2026 with seven Talk Story sessions across each moku; build **Navigation Team** with extensive community input on composition and qualifications; support place-based monitoring strategies with **Pili Na Moku** coordinators assigned to each priority moku system

**KAUAI** Work with **Hui Maka'āinana O Makana** to identify adaptive management opportunities during 10-year CBSFA review

**OAHU** Re-assess and resume invasive algae removal manually and using the **Supersucker** in **Kāne'ohe Bay**

**MAUI NUI** Finalize Maui Island management action plan with stakeholders in **Lahaina, Hāna, Central and Upcountry Maui**; align Holomua and **Maui Hikina East Maui** proposals to create pathway forward through rulemaking; finalize the **West Maui Ridge-to-Reef Initiative** graduation report documenting priority watershed work since 2012; leverage insights of **South Maui Watershed Working Group** to prioritize projects addressing land-based pollution

**WEST HAWAII** Analyze shoreline data to evaluate **pāku'iku'i** population response to take moratorium

**MARR** Synthesize monitoring, research, and response outcomes into formal **AIS Action Plan** for consistent, science-based decision-making





MAHALO

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