



Coral Research & Development Accelerator Platform



## Developing Coral Restoration Roadmaps for Caribbean Marine Protected Areas

June 9<sup>th</sup> – 14<sup>th</sup>, 2024

Florida Keys Eco-Discovery Center, Key West, Florida

### Welcome Everyone!

**Goals:** Together create Restoration Road Maps to guide coral restoration in the Caribbean. Our Coral Restoration Advisory Team of experts and mentors will provide insights and assistance on designing and implementing rescue and recovery efforts.

#### Outcomes:

- Site specific restoration planning and technical assistance on rescue and recovery priorities
- Draft Restoration Roadmaps for individual MPAs and Caribbean vision
- Strategies and next steps for restoration technical trainings, planning, and implementation
- Share lessons learned with the MPAConnect Network and restoration practitioners
- Increased collaboration to catalyze recovery efforts in the region

### Schedule

**June 9:** Arrive in Key West/ Check in (varies) / Welcome Social (Schooner Wharf -7pm)

#### June 10 Day 1:

- Restoration approaches and lessons learned
- Restoration road map planning

#### June 11 Day 2: ONE on ONE restoration guidance

- Guiding coral rescue with monitoring data
- Large-area imaging of coral reefs for monitoring and restoration
- Sexual coral reproduction and best practices
- Asexual coral propagation and herbivore propagation (Ecosystem-based restoration)
- Fundamentals of invertebrate disease investigations & Managing Closed land-based systems

#### June 12 Day 3:

- Planning for future risk and climate vulnerability
- Grounding coral restoration planning into MPA sustainable financing
- Developing Roadmaps
- Field trip & Activities: Mote Marine Lab

#### June 13 Day 4:

- Integrating Restoration into MPA management
- Restoration Roadmap next steps (Participant Presentations)
- Regional restoration priorities and opportunities

**June 14 Day 5:** Depart Key West



Coral Research & Development Accelerator Platform



## Day 1 AGENDA: Restoration Techniques & Road Map Planning (Step 1)

*(subject to change)*

7:00 – 8:00	Group Breakfast at Hotel
8:00 – 8:30	Travel to Meeting Room
8:45 – 9:30	Welcome/Introductions, CORDAP Project Overview, Meeting Goals <a href="#">Patricia Kramer</a> / <a href="#">Lynnette Roth</a>
9:30 – 9:45	Status of Caribbean Reefs <a href="#">Judy Lang</a>
9:45 – 10:00	Recapping Management Capacity for Coral Restoration in the MPA Network <a href="#">Dana Wusinich-Mendez</a> & <a href="#">Gaby Ochoa</a>
10:00 – 10:50	Restoration Advisory Team Presentations: Part 1 <ul style="list-style-type: none"> <li>Guiding coral rescue with monitoring data <a href="#">Judy Lang</a>, <a href="#">Patricia Kramer</a>, &amp; <a href="#">Lynnette Roth</a></li> <li>Sexual coral reproduction &amp; best practices (30min) <a href="#">Anastazia Banaszak</a>, <a href="#">Rita Sellares</a>, <a href="#">Elvira Alvarado</a></li> </ul>
10:50 – 11:00	Break
11:00 – 12:00	Advisory Team Presentations: Part 2 <ul style="list-style-type: none"> <li>Approaches to improving coral survival <a href="#">Stacey Williams</a></li> <li>Herbivore restoration <a href="#">Jason Spadaro</a></li> <li>Land based (ex-situ) closed systems: Bio-banks <a href="#">Alizee Zimmermann</a></li> </ul>
12:00 – 1:00	Lunch Break (provided)
1:00 – 2:00	Coral Rescue Nurseries Panel Discussion <a href="#">Simon Walsh</a> , <a href="#">Stacey Williams</a> , <a href="#">Alizee Zimmermann</a> , <a href="#">Rita Sellares</a> , <a href="#">Anastazia Banaszak</a> , <a href="#">Elvira Alvarado</a>
2:00 – 2:40	Advisory Team Presentations: Part 3 <ul style="list-style-type: none"> <li>Fundamentals of invertebrate disease investigations <a href="#">Michelle Dennis</a></li> <li>Large-area imaging of coral reefs for monitoring and restoration <a href="#">Art Gleason</a></li> </ul>
2:40 – 3:15	Roadmap Overview & Activities <a href="#">Patricia Kramer</a> / <a href="#">Lynnette Roth</a>
3:15 – 3:30	Break
3:30 – 4:00	Case Example: Mission: Iconic Reefs (Florida Keys) <a href="#">Sarah Fangman</a> , <a href="#">Florida Keys National Marine Sanctuary</a>
4:00 – 4:30	Setting Goals for Restoration planning <a href="#">Team advisors/Participants</a>
4:30 – 5:00	Group Share <a href="#">Patricia Kramer</a>
7:00	Group Dinner – Kaya Island Eats





Coral Research & Development Accelerator Platform



## Day 2 AGENDA: Restoration Techniques & planning (Steps 2 & 3)

*One on one restoration guidance*

<b>6:30 – 8:00</b>	Breakfast on your own
<b>8:00 – 8:30</b>	Travel to Meeting Room
<b>8:30 – 9:00</b>	Welcome / Identifying Restoration Sites (case examples) <i>Stacey Williams, Rita Sellares / Team advisors</i>
<b>9:00 – 10:00</b>	Prioritizing Sites and Species Selection <i>Team advisors/Participants</i>
<b>10:00 – 10:15</b>	Coral Rescue Café – one on one restoration guidance (rotate through Café) <i>Patricia Kramer &amp; Lynnette Roth</i> <ol style="list-style-type: none"> <li>1. Guiding coral rescue with monitoring data <i>Judy Lang, Patricia Kramer, Lynnette Roth</i></li> <li>2. Large-area imaging of coral reefs for monitoring and restoration <i>Art Gleason</i></li> <li>3. Sexual coral reproduction (spawning calendar, larval propagation) <i>Rita Sellares, Elvira Alvarado</i></li> <li>4. Asexual coral propagation and herbivore propagation (urchins, crabs) <i>Stacey Williams, Simon Walsh, Jason Spadaro</i></li> <li>5. Fundamentals of invertebrate disease investigations &amp; Managing Closed land-based systems <i>Michelle Dennis &amp; Alizee Zimmermann</i></li> <li>6. Work on Roadmaps</li> </ol>
<b>10:15 – 11:00</b>	Round 1
<b>11:00 – 11:45</b>	Round 2
<b>11:45 – 12:00</b>	Work on Roadmaps <i>Team Advisors /Participants</i>
<b>12:00 – 1:00</b>	Lunch Break
<b>1:00 – 1:45</b>	Round 3
<b>1:45 – 2:30</b>	Round 4
<b>2:30 – 3:15</b>	Round 5
<b>3:15 – 3:30</b>	Break
<b>3:30 – 4:15</b>	Round 6
<b>4:15 – 5:00</b>	Group Discussion, Meeting wrap-up, review of Day 3 agenda
<b>Evening</b>	Dinner on your own



Coral Research & Development Accelerator Platform



## Day 3 AGENDA: Develop Restoration Action Plan (Step 4) & Field Trip

<b>6:30 – 8:00</b>	Breakfast on your own
<b>8:00 – 8:30</b>	Travel to Meeting Room
<b>8:30 – 8:45</b>	Welcome, review of agenda <i>Patricia Kramer &amp; Lynnette Roth</i>
<b>8:45 – 9:30</b>	Planning for future risk and climate vulnerability (case examples) <i>Judy Lang, Simon Walsh, Rita Sellares, Team Advisors</i>
<b>9:30 – 10:00</b>	Grounding coral restoration planning into MPA sustainable financing <i>Emma Doyle, Dana Wusinich-Mendez &amp; Gaby Ochoa &amp; Team advisors</i>
<b>10:00 – 10:15</b>	Break
<b>10:15 – 12:00</b>	Work on Roadmaps: Advisory Team available for questions/guidance
	<ul style="list-style-type: none"> <li>• Review your Goals &amp; Geographic Focus</li> <li>• Review Site &amp; Coral Selection</li> <li>• Review Intervention Options</li> <li>• Review Management Considerations/ budgets</li> <li>• Synthesize into an Action Plan</li> </ul>
<b>12:00 – 1:00</b>	Lunch Break & Travel to Mote Marine Lab
<b>1:00 – 4:00</b>	Mote Marine Lab Tour
<b>4:00 – 5:00</b>	Depart Mote Marine Lab
<b>Evening</b>	Dinner on your own



Coral Research & Development Accelerator Platform



## Day 4 AGENDA: Integrating Restoration & Management Restoration Country Presentations Regional Collaboration

<b>6:30 – 8:00</b>	Breakfast on your own	
<b>8:00 – 8:30</b>	Travel to Meeting Room	
<b>8:30 – 9:00</b>	Welcome <i>Patricia Kramer &amp; Lynnette Roth</i>	
<b>9:00 – 10:00</b>	Integrating Restoration into MPA management- Panel Discussion <i>Dana Wusinich-Mendez &amp; Gaby Ochoa</i>	
<b>10:00 – 10:15</b>	Break	
<b>10:15 – 10:30</b>	Introduction to Country Presentations <i>Patricia Kramer &amp; Judy Lang</i>	
<b>10:30 – 12:00</b>	Restoration Roadmap Presentations (10min each, 5min discussion)	
	<ul style="list-style-type: none"> <li>• Aruba: Sietske</li> <li>• Belize: Alicia/Kevin</li> <li>• Bonaire: Danielle</li> </ul>	<ul style="list-style-type: none"> <li>• BVI: Argel</li> <li>• Cayman: Croy</li> <li>• Dominica: Zethra</li> </ul>
<b>12:00 – 1:00</b>	Lunch Break	
<b>1:00 – 3:00</b>	Restoration Roadmap Presentations cont. (10min each, 5min discussion)	
	<ul style="list-style-type: none"> <li>• Grenada: Christine</li> <li>• Honduras: Martha/Andrea</li> <li>• Mexico: Christian</li> <li>• Saba: Camille</li> </ul>	<ul style="list-style-type: none"> <li>• St. Lucia: Makeba</li> <li>• TCI: Rebecca</li> <li>• SVG: Sheldon</li> <li>• Colombia: Elvira</li> <li>• Dominican Rep: Rita</li> </ul>
<b>3:00 – 3:15</b>	Break	
<b>3:15 – 4:00</b>	Regional Collaboration	
<b>4:00 – 4:30</b>	Restoration Roadmaps: Next steps <i>Patricia Kramer, Lynnette Roth</i>	
<b>4:30 – 5:00</b>	Closing presentation	
<b>7:00</b>	Group Dinner: Salutes on the Beach	