



## MONDAY WORKSHOPS

Title	Description	Day	Start Time (ET)	End Time (ET)
Setting the scene for effective coral reef restoration	This workshop will provide a foundation in effective coral reef restoration concepts as well as practical and proven techniques that participants can use immediately within their reef restoration projects. To extend learning beyond theoretical concepts, participants will learn how to build a large-scale coral nursery with basic elements, and experience fixing corals with cement for rapid increase of coral cover.	Monday, September 26	10:00 AM	6:00 PM
Using Large Area Imagery to Monitor Coral Restoration	This workshop will help practitioners, and managers understand the suite of available tools to image and monitor your restoration projects, and will provide training in how to use them. Researchers from the Coral Restoration Foundation, University of Miami, and Scripps Institution of Oceanography will briefly demonstrate different Large Area Imagery (LAI) techniques. Then, workshop attendees will be guided in a demonstration of image acquisition and download, photo-mosaic processing, and data extraction and archiving. So that they will be ready to start or improve restoration monitoring using large-area imagery on their home reefs. Attendees will learn the benefits to these methods, resources needed, and develop relationships with the organizers to follow up for trouble-shooting.	Monday, September 26	12:00 PM	5:00 PM
AcDC: The Acropora cervicornis Data Coordination Hub Demonstration	A walkthrough of the new Acropora cervicornis Data Collaboration Hub webtool to inform coral selection and enhance restoration efforts by comparing genotype performance across experience in the field and lab. We will demo the webtool for the group and also give participants access to test the tool on their own laptop if interested.	Monday, September 26	10:00 AM	12:00 PM
Larval Propagation Session 1: Introduction	This workshop will introduce the methodologies of coral larval propagation for restoration, considerations for starting a program, and examples of successful implementation. Facilitators will conduct individualized exercises with participants and delve into site specific questions. This workshop will be in English & Spanish.	Monday, September 26	11:00 AM	2:00 PM
Larval Propagation Session 2: Tools for Effective Implementation	This workshop will provide hands-on training and demonstrations of coral gamete collectors, Coral Species Fact Sheets, the coral spawning database. This workshop will be in English & Spanish.	Monday, September 26	3:00 PM	6:00 PM
Media Training Session 1: Attracting mainstream support for coral restoration through video	Quality science communication is more important than ever. Scientists have an opportunity to build a virtual presence and amplify their presence, but many scientists lack the training. During this workshop, you will define the goals of your video content, learn the structure of compelling stories, craft your own simple science story, identify what makes effective video content, improve your video and audio tech set-ups, maximize the video content you create with a content distribution strategy, learn to evaluate what worked and what's next.	Monday, September 26	11:00 AM	2:00 PM
Media Training Session 2: How to develop, pitch, and place your story in local and major media.	Have you wanted to highlight an important issue and show that there are solutions? In this training, restoration professionals, scientists, academics, educators, program managers, graduate students and youth will: <ul style="list-style-type: none"> <li>• Learn how to work with and develop relationships with journalists</li> <li>• Develop effective media pitches</li> <li>• Participate in a pitch slam</li> <li>• Participate in story development breakouts</li> <li>• Create strategies to gain attention in local and national publications and media</li> <li>• Work with Blue Frontier's writing and advocacy experts</li> </ul>	Monday, September 26	3:00 PM	6:00 PM
In-water Propagation and Outplanting Showcase	This OPEN HOUSE will include explanations of various new and existing techniques for the in-water coral restoration, including nursery structures, epoxies, and other attachment methods. Participating organizations include The Nature Conservancy, Coral Restoration Foundation, Coralclip, and others.	Monday, September 26	3:00 PM	6:00 PM
Planning for Caribbean Coral Rescue as a Response to SCTL D <b>INVITATION ONLY</b> - contact <a href="mailto:cmclaughlin1@ufl.edu">cmclaughlin1@ufl.edu</a> to participate.	The workshop will serve as a forum for collaboration, learning, and dialogue among Caribbean partners responding to SCTL D on local coral reefs who are interested in establishing and enhancing coral rescue programs as a part of SCTL D response efforts. The workshop will help Caribbean disease response practitioners and coral reef managers begin to develop SCTL D coral rescue plans, ensuring they have an understanding of different methodologies and technologies that will help meet their goals. contact <a href="mailto:cmclaughlin1@ufl.edu">cmclaughlin1@ufl.edu</a> to participate.	Monday, September 26	10:00 AM	6:00 PM

## LUNCH WORKSHOPS

Title	Description	Duration	Start Time (ET)	End Time (ET)
Coral Communication: Building a Community of Practice Lunch Meeting Contact <a href="mailto:shellykrueger@ufl.edu">shellykrueger@ufl.edu</a> to participate.	Join us as we build a network of outreach and education practitioners to promote collaboration and best practices, common talking points, and media relations to support the dissemination of science-based information focused on corals conservation. Contact <a href="mailto:shellykrueger@ufl.edu">shellykrueger@ufl.edu</a> to participate.	Tuesday, September 27	12:00 PM	2:00 PM
Pacific Islands Coral Restoration Lunch Meeting Contact <a href="mailto:lani.watson@noaa.gov">lani.watson@noaa.gov</a> to participate.	An opportunity for anyone from or working in the Pacific Islands to get together, network, share lessons learned, and discuss ideas for collaboration and capacity building across the Pacific Islands. Contact <a href="mailto:lani.watson@noaa.gov">lani.watson@noaa.gov</a> to participate.	Wednesday, September 28	12:00 PM	2:00 PM



# REEF FUTURES

## FRIDAY WORKSHOPS

Title	Description	Duration	Start Time (ET)	End Time (ET)
Track genotype and disease in your restoration and nursery - demonstrations of open access tools	<p>Demo 1: The Coral Sample Registry is a new tool that hosts collection data for any sample used in restoration around the world, accessible to practitioners, researchers, and management agencies. Join this workshop to learn about contributing to and mining data from this open-access web-accessible system.</p> <p>Demo 2: New forecasting tools are available within the NOAA Coral Reef Watch satellite-based Coral Disease Outbreak Risk product suite. New Regional Virtual Stations connect users to an interactive tool that provides near-term forecasts at 5km-resolution of the risk for two widespread coral diseases in the Pacific Ocean. The interactive tool allows users to explore forecasts at multiple spatial scales and assess disease mitigation potential through modelled scenarios.</p>	Friday, September 30	9:00 AM	1:00 PM
Custom sustainable 3D-printed concrete reefs for coral restoration	<p>(1) Introduction to 3D printing for coral restoration, including an overview of different 3D printing techniques, pros and cons of materials and sustainable use of resources (- 20 min)</p> <p>(2) Hands-on design of customized 3D printing for coral reefs restoration (using a powder bed printer and water binder). Small groups will each define a location, target species, and design parameters. A preliminary design will be made out of clay and 3D scanned (- 2 hours)</p> <p>(3) Discussion on large scale implementation of 3D printing in coral restoration, applicability of this technique in their role as coral restoration practitioners (- 45 minutes).</p>	Friday, September 30	9:00 AM	12:00 PM
Coral Disease Intervention Strategies	With disease as a major contributor to the loss of stony corals in the Caribbean, in-water intervention strategies have been developed to halt mortality on a variety of priority corals, including large reef-builders, outplants, and nursery corals. This hands-on-training will focus on the best practices that have been developed and utilized to treat Stony Coral Tissue Loss Disease (SCTLD)-affected corals. We will discuss lessons learned, current methodologies, possible applications, predicted success rates, and treatments currently in development. Hands-on experience will include preparation and mock application of treatments.	Friday, September 30	9:00 AM	12:00 PM
Land Sharks: research and education inland	This workshop will discuss research, educational opportunities, and strategies for scientists and students that live and work well inland, far from coral reefs. The discussion will focus on how to initiate new course work and educational opportunities to engage students with coral research and restoration and help them understand the importance of coral ecosystems. We will highlight past and future field work in Honduras, Belize, and the Florida Keys provided to undergraduate students to guide and reinforce their connection to the coral reef ecosystem. The workshop will include discussion among participants to explore new research collaborations and educational programs at the participant's home institutions and organizations.	Friday, September 30	11:00 AM	1:00 PM
A Holistic Approach to Reef Education	We believe it is important to move learners from awareness of the plight of coral to action as better stewards of the sea. We will discuss how to use outdoor excursions, small group learning, outreach, and education to promote stewardship reef stewardship. This will be a practical session helping others with unique ways that every coral organization can work to educate their local public on how to care for the ocean.	Friday, September 30	9:00 AM	11:00 AM
The Allen Coral Atlas: How global mapping and dynamic monitoring of coral reefs enhance efficiency of coastal governance and coral restoration projects?	This workshop will demonstrate the mapping and monitoring tool capabilities of the Allen Coral Atlas, and how to use the Atlas as a new tool to plan and implement coral reef restoration sites. Then, early adopters of the Atlas, Coral Vita, Titouan Bernicot, and Dr. Tries Razak, Indonesia will present on their restoration projects successes, failures, and plans to create efficiency and expand through community driven support. The workshop will also include an introduction to online courses to facilitate increased use and impact of the Atlas, for partners and participants to share.	Friday, September 30	9:00 AM	12:00 PM
Regulators & Policy Makers Forum	This workshop will provide a forum for regulators, policymakers, and legislators to share ideas and identify future research and deployment opportunities relating to the regulatory challenges associated with restoration science and adaptation.	Friday, September 30	9:00 AM	12:00 PM

**INVITATION ONLY-** contact [maxine.newlands@jcu.edu.au](mailto:maxine.newlands@jcu.edu.au) to participate.