

The Coral Restoration Consortium

Dr. Tali Vardi, ECS *for* NOAA Fisheries Office of Science & Technology Presentation to the International Coral Reef Initiative Monday, February 1st 2020

Timeline Workshop to Advance the Restoration Science and Practice of Coral Consortium Leadership Meeting Reef Futures Restoration in the Caribbean Priorities Review 2016 2018 2020 2017 2019 Formed CRC Steering Adopted revised **Reef Futures** Committee & Priorities Governance Doc. Voted in new intl Formed Working Groups Drafted Governance **Steering Committee** Added Regional Groups Document

Mission



- to foster collaboration and technology transfer among coral restoration scientists, practitioners, and managers, and
- to facilitate a community of practice that will advance methods to restore coral reefs to keep pace with rapidly changing environmental conditions

Steering Committee





NGOs

- Coral Restoration Foundation*
- •The Nature Conservancy/RRN
- •Corales de Paz
- •RRAP / JCU



Academic

- Boston University
- University of Haifa, Israel
- National Autonomous U. of Mexico

















Agencies

- US National Oceanic & Atmospheric Administration*
- UN Environment Program
- US Geological Survey
- Hawaii Department of Aquatic Resources





Restoration Consortium



Working Groups





Field-based Propagation

Land-based Propagation

Larval Propagation Monitoring

Genetics

Management



Regional Groups





Meso-America

Latin America

Eastern Tropical Pacific

Australia

Ad-hoc Groups

Engineering

Cryopreservation







Mgmt agencies

Reef Resilience Network

Australia's RRAP

International

Coordinators

UNEP

Scientists

ICRS Government University

Genetics Working Group



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Considerations for maximizing the adaptive potential of restored coral populations in the western Atlantic

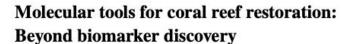
Iliana B. Baums , Andrew C. Baker, Sarah W. Davies, Andréa G. Grottoli , Carly D. Kenkel, Sheila A. Kitchen, Ilsa B. Kuffner , Todd C. LaJeunesse, Mikhail V. Matz, Margaret W. Miller, John E. Parkinson , and Andrew A. Shantz













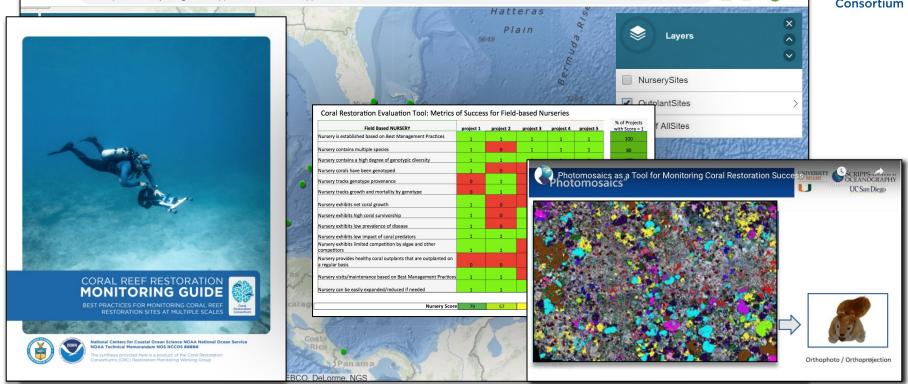


Monitoring Working Group

https://oref.maps.arcgis.com/apps/View/index.html?appid=666410e8008744cab5847421eb5f70d6

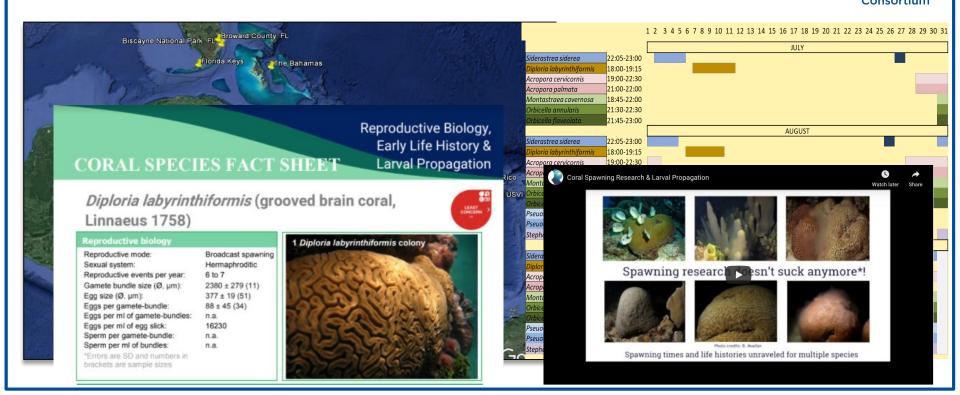


Coral Restoration Consortium



Larval-propagation WG





Land-based, Larval, Cryo Groups







bioRχiv

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Successful Demonstration of Assisted Gene Flow in the Threatened Coral

Acropora Palmata Across Genetically-Isolated Caribbean Populations using **Cryopreserved Sperm**

Mary Hagedorn, Christopher A. Page, Keri O'Neil, Daisy M. Flores, Lucas Tichy, Valérie F. Chamberland, Claire Lager, Nikolas Zuchowicz, Kathryn Lohr, Harvey Blackburn, Tali Vardi, Jennifer Moore, Tom Moore, Mark J. A. Vermeij, Kristen L. Marhaver

doi: https://doi.org/10.1101/492447



Mary Hagedorn, Smithsonian Inst.



Curaçao





Chris Page, Mote



Keri O'Neill, **FLAQ**

Kristen Marhaver, **CARMABI**



2020-2025 Priorities



- Increase restoration efficiency, focusing on scale and cost-effectiveness of deployment
- Scale-up larval-based coral restoration efforts, emphasizing recruit health, growth, and survival
- Ensure restoration of threatened coral species proceeds within a population-genetics management context
- Support a holistic approach to coral reef ecosystem restoration
- Develop and assist the use of standardized terms and metrics for coral reef restoration
- Support coral reef restoration practitioners working in diverse geographic locations

(Vardi et al. in review)

Questions?

tali.vardi@noaa.gov/crc.reefresilience.org



