

Mission: Iconic Reefs Update

Overall Process

Sanctuary Advisory Council

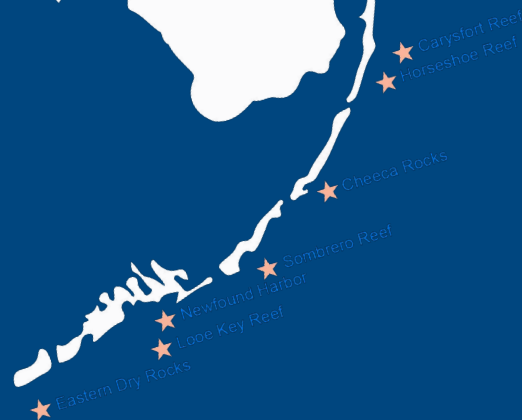
February 2021

Megan Fraser, Iconic Reefs Implementation Manager





IR Implementation Manager



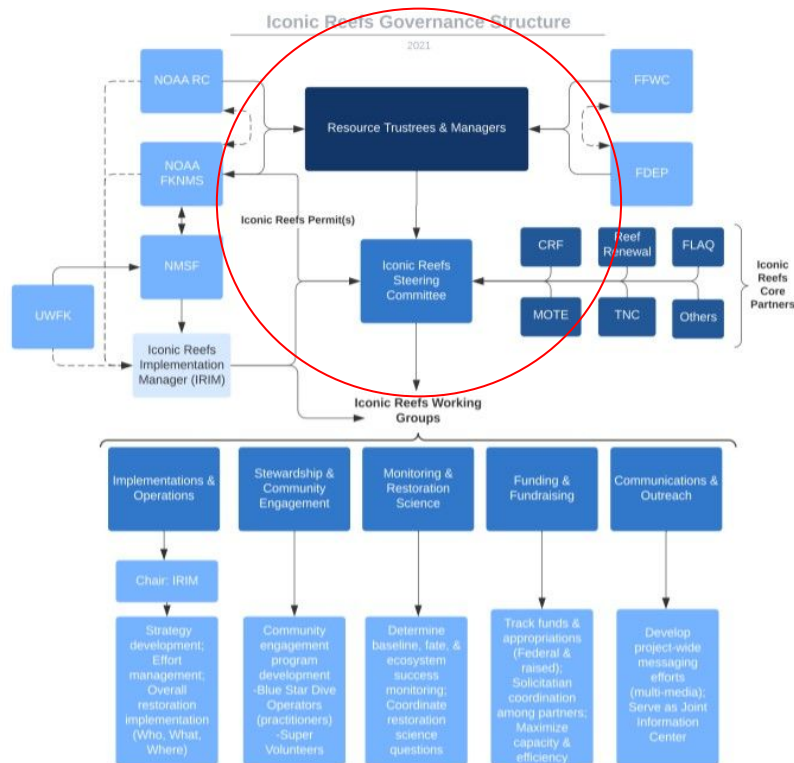
- Governance
- Mission Centralization
- Site Segmentation
- Site Preparation Testing
- Mooring Buoys
- Blue Economy
- Beyond the Corals
- New Collaborations



IR Governance



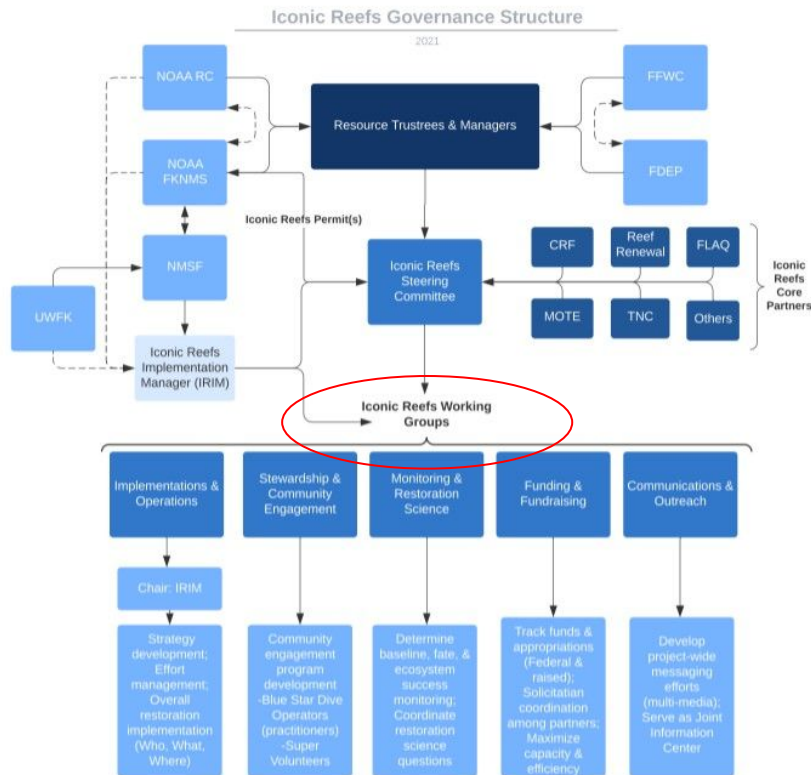
IR Governance



- Resource Trustees & Managers
- Steering Committee
- Core Team



IR Governance



5 Working Groups

- Communications & Outreach
- Funding & Fundraising
- Implementation & Operations
- Restoration Monitoring & Research
- Stewardship & Community Engagement



Mission Centralization



Mission Centralization



**Project
Management**



**Internal
Communications**



**Data
Visualization**

Comprehensive, Cohesive, Consistent

Information Mirrors



Mission Centralization



- 7 Sites
- Multiple key partners / practitioners
- Differing funding cycles

Project
Management

*Core Team &
Implementation & Operations WG*





EDR - NFWF

Operational Timeline 2021



Site
Preparation



Outplanting



Mooring Buoy
Installation



Community
Stewardship:
Maintenance



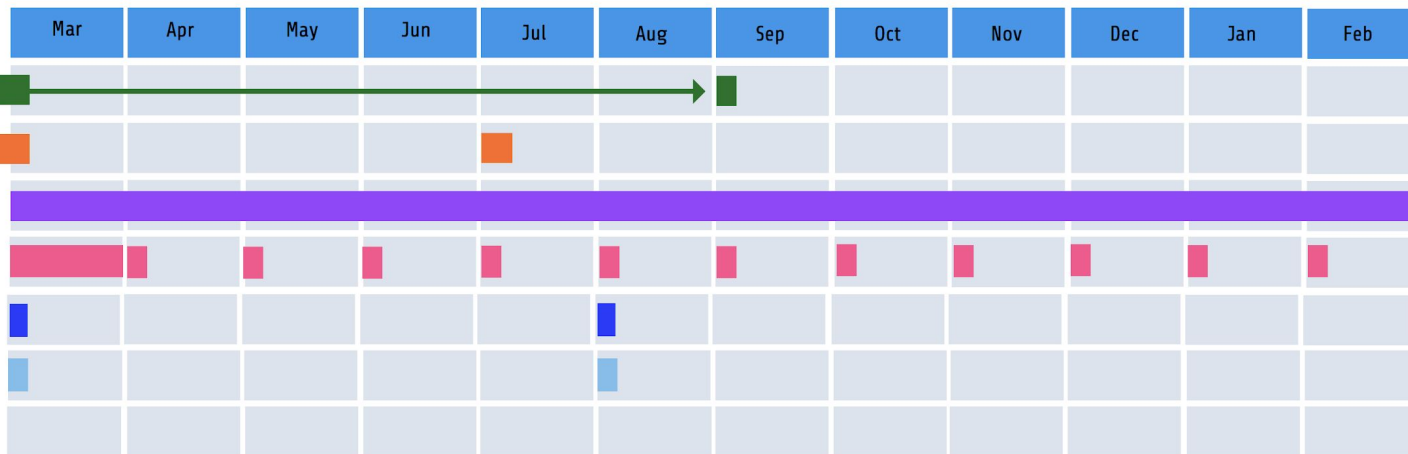
Monitoring



Wave
Attenuation
Study



Grazers
Introduction



Initial Testing
Project w/
6mo Monitoring
Contractor
FKNMS

First 3 Priority
Install
Contractor

Beginning of
NFWF
Outplanting

Pilot Project
Planning
BSDD

Baseline Imagery
Practitioners

Baseline Collection
Large & Fine-Scale
University Partner

Commence
Monthly
Maintenance
BSDD

Install Additional
Buoys
FKNMS

6mo Monitoring
FKNMS
Fine-Scale
University Partner

First Preparation
post-results of
Testing Project
FKNMS

1st Grazers
2022



Mission Centralization - Hub



New ▾



megan ▾



Mission: Iconic Reefs Internal Communications

Mission: Iconic Reefs Internal Communications

Search, Visualize, Stay Informed



Internal
Communications

Q Search...



Mission Centralization – *Hub*



Explore IR Site Data



Eastern Dry Rocks



Carysfort



Cheeca Rocks

**Internal
Communications**

Working Group Folders

Access to all 5 working group sub-folders within the Mission: Iconic Reefs Shared Drive

[Go there now](#)



Mission Centralization



FL Keys Community Master Map

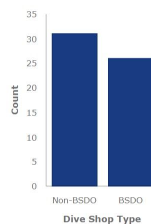


Dive Operators

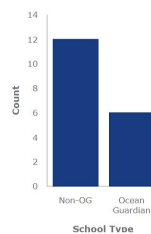
ShopType

- ★ BSDO
- Non-BSDO

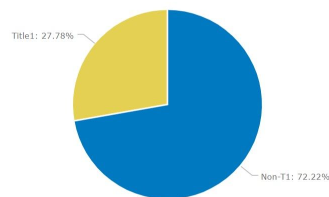
Blue Star Dive Operator Breakdown



Ocean Guardian School Breakdown



Title 1 Schools



Data Visualization



Mission Centralization



Recently added content

View all group content



FL Keys Community Master Map

by megan.fraser_noaa

Created: Feb 9, 2021

Updated: Feb 12, 2021

View Count: 54



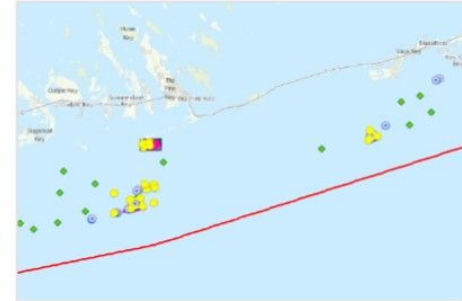
Mission: Iconic Reefs Master M...

by Christine.Addison_noaa

Created: Nov 16, 2020

Updated: Feb 5, 2021

View Count: 210



FKNMS Restoration Map

by Christine.Addison_noaa

Created: Jul 19, 2019

Updated: Jan 20, 2021

View Count: 466



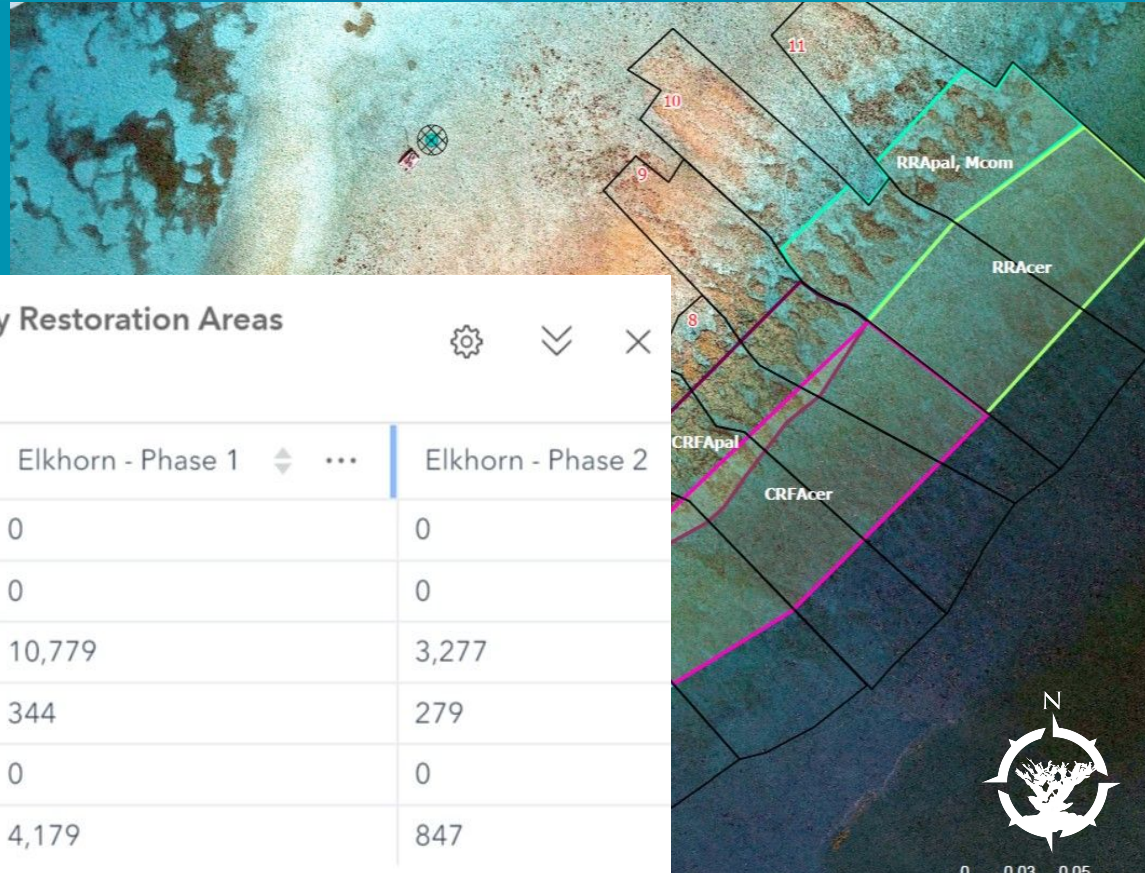
Data
Visualization



Mission Centralization



Attribute Tables



Eastern Dry Rocks - Priority Restoration Areas

6 records

EDR_Restor	Elkhorn - Phase 1	Elkhorn - Phase 2
Deep Reef	0	0
Forereef Terrace	0	0
Reef Crest	10,779	3,277
Shallow Reef Crest	344	279
Spur and Groove - sides	0	0
Spur and Groove - top	4,179	847

Data
Visualization

Mission Centralization



**Project
Management**



**Internal
Communications**



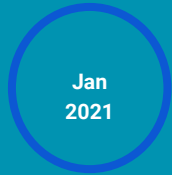
**Data
Visualization**

Comprehensive, Cohesive, Consistent

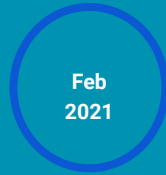
Mirror the Information



Mission Centralization



Solidify Components



Build Out



**Introduce / Implement
& Evolve**



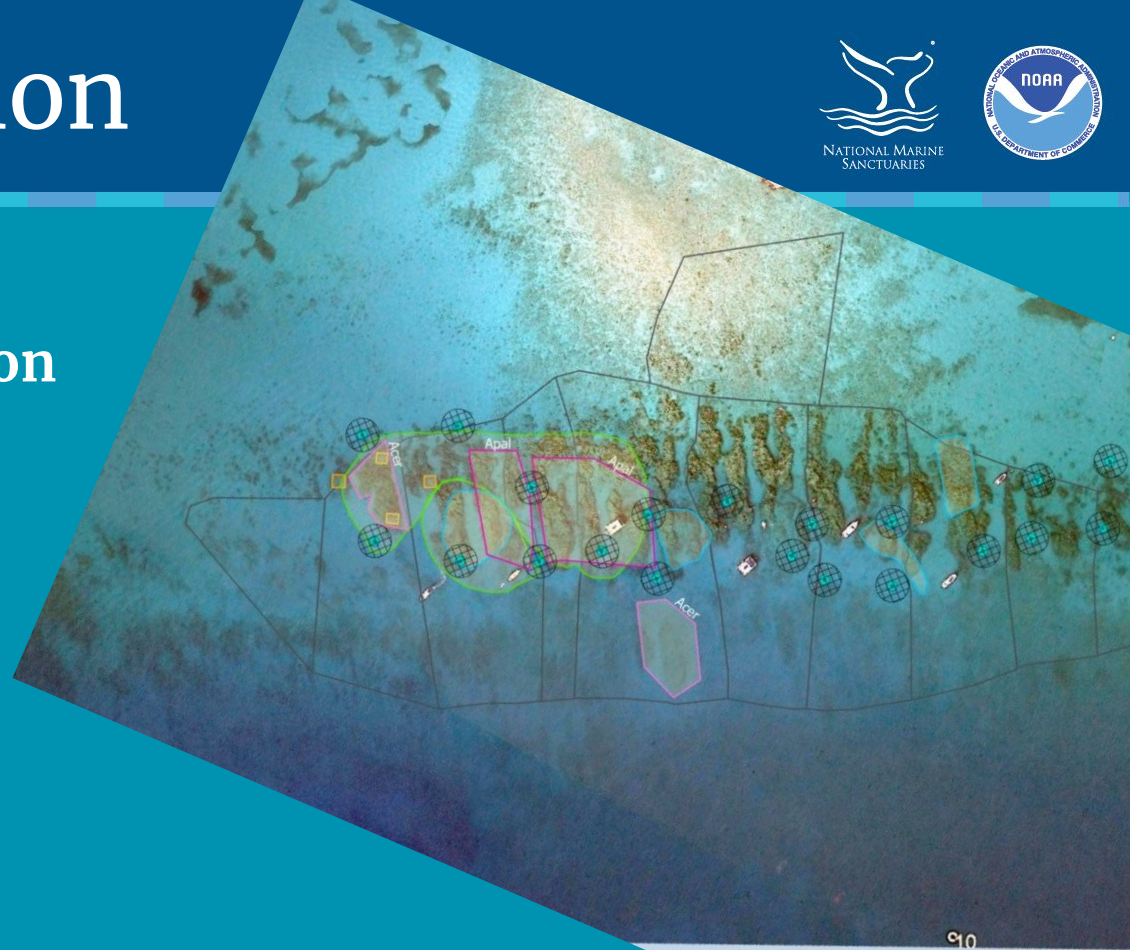
Site Segmentation



Site Segmentation



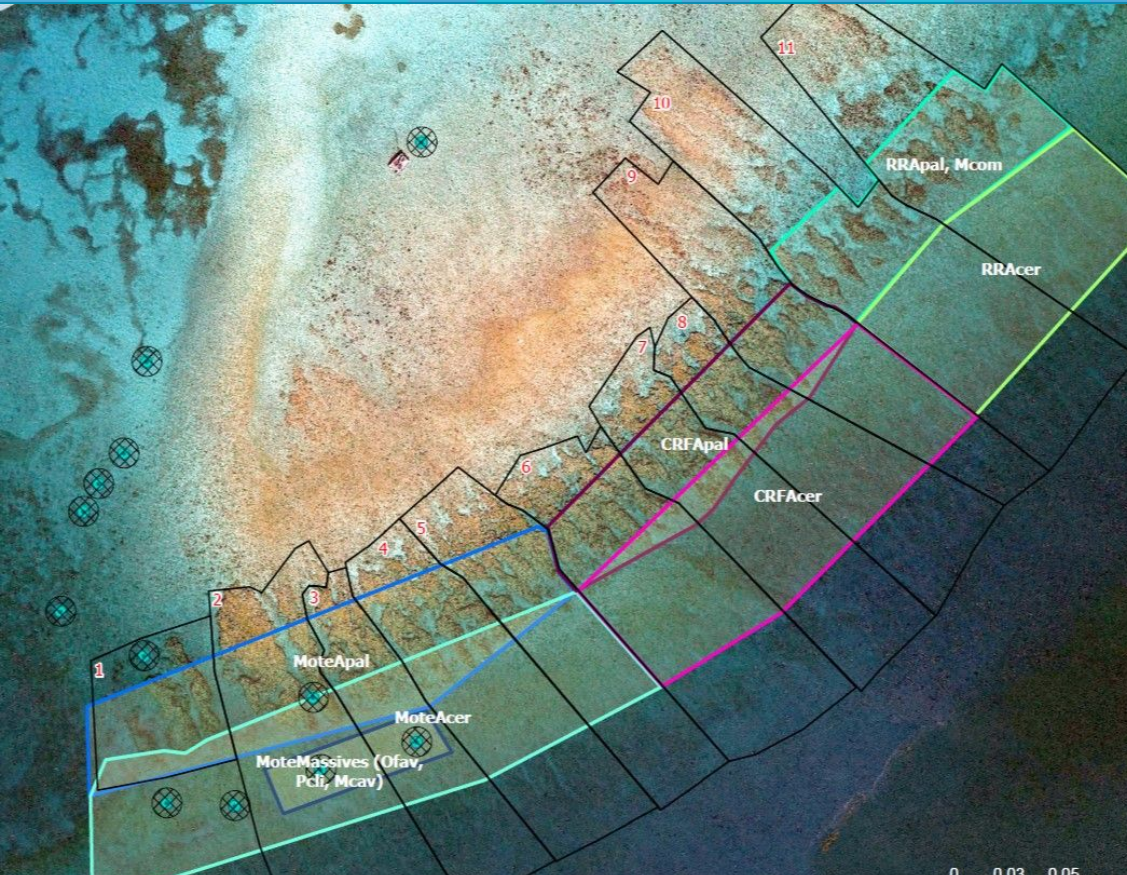
- Manageability of implementing restoration plans
- Monitoring & Controls



Site Preparation *Testing*



Site Preparation Testing



Eastern Dry Rocks

NFWF Coastal Resilience Fund



National
Marine Sanctuary
Foundation



Site Preparation *Testing*



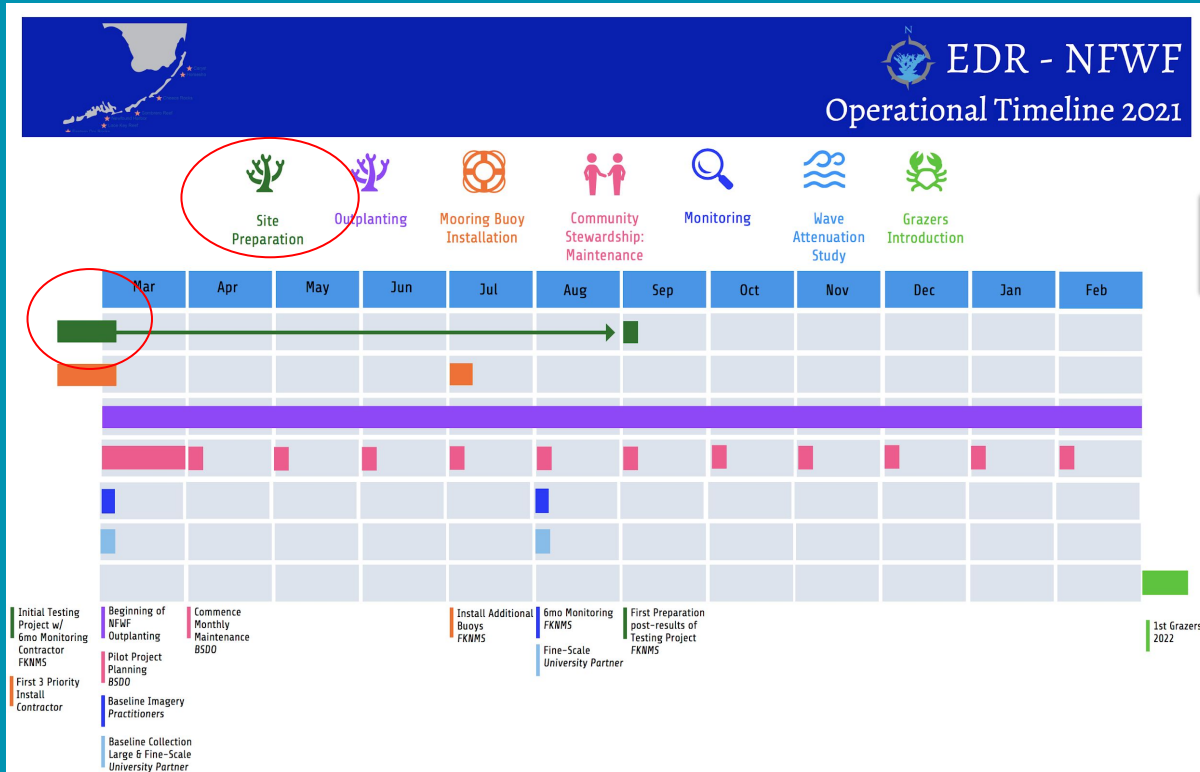
Site Preparation

- Clearing of invasive & nuisance spp. prior to outplanting
 - Fleshy algae; turf algae
 - Gorgonians
 - Palythoa
 - Encrusting fire coral
 - Encrusting sponges / tunicates

- Reef site-wide



Site Preparation Testing

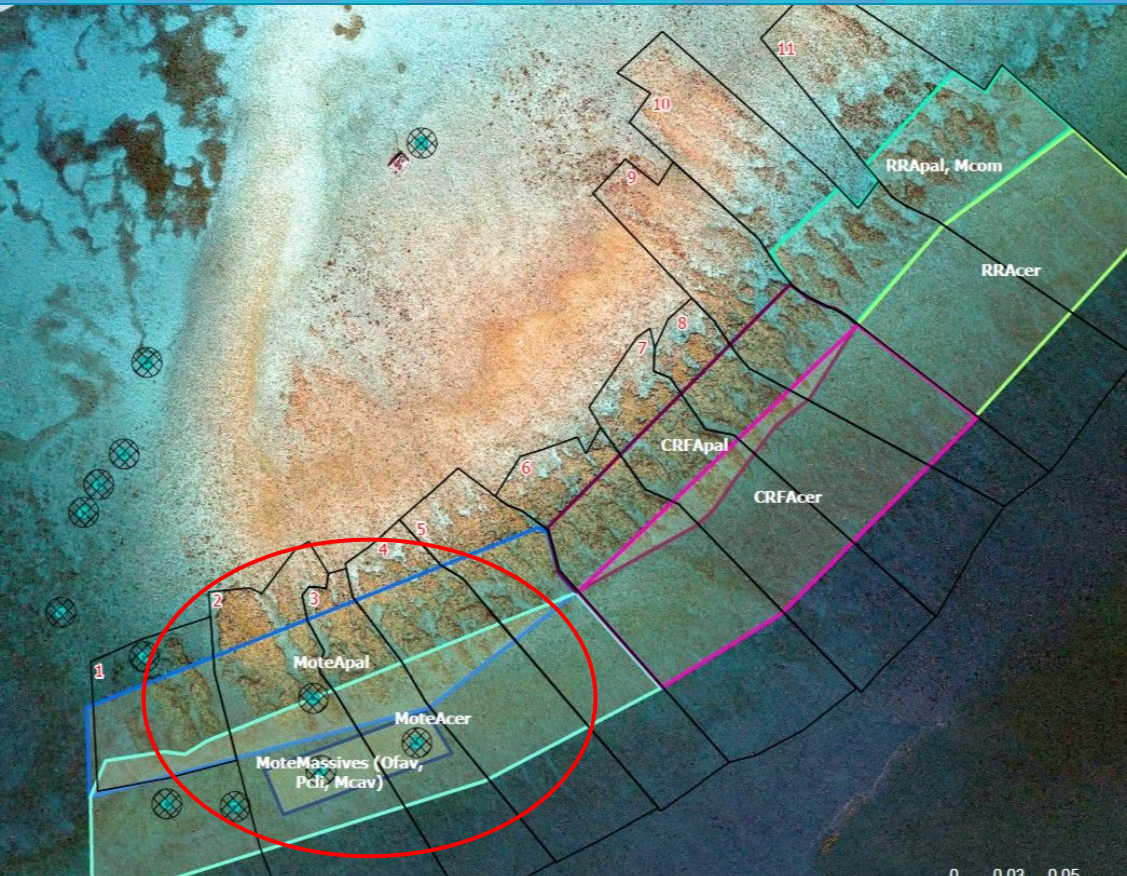


Site Preparation Testing Project

End of Feb. 2021 + 6 months of monitoring



Site Preparation Testing



Site Preparation *Testing*



2 Habitat Zones

Google Earth



Site Preparation Testing



Clear all
**experimental
plots**

Outplanting –
immediate &
delayed

Monitor & make
future plans



Mooring Buoys



Mooring Buoys



- Installation of priority buoys at Eastern Dry Rocks
- Recognized need for additional installations



Blue Economy



Blue Economy



United Way of Collier and the Keys

- Reef Revitalization RFP
- Education & Scholarships
- Community Programs & Initiatives
- *Looking for partnerships!*

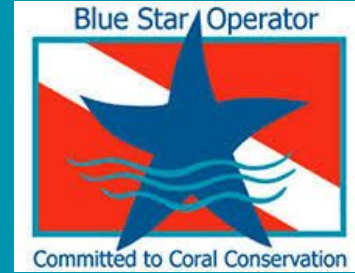


Blue Economy



Blue Star Dive Operator Restoration Program

- Dedicated tourism dive opportunities – restoration focus with partnerships from key IR partners & practitioners
- Active engagement resulting in active contributions to IR restoration work



Beyond the Corals

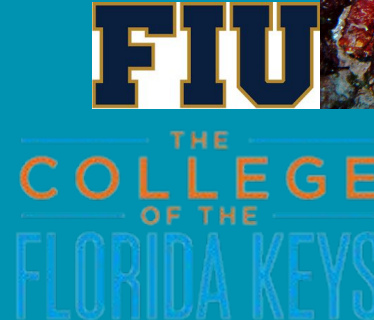


Beyond the Corals - *Herbivory*



Grazers Research & Outplanting

- Caribbean King Crab R&D projects kick off March 2021
 - Jason Spadaro, CFK
 - Mark Butler, FIU



National
Marine Sanctuary
Foundation



Beyond the Corals – *Rescue*



Coral Rescue Project

- Many partners – NOAA Fisheries; FWC; AZA (holding facilities); Southeast Florida Coral Reef Conservation Hub
- Rescue of healthy corals, ahead of SCTL boundary
- Eventual Rescue Reef outplanting event onto an IR Site



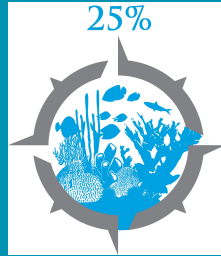
New Collaborations



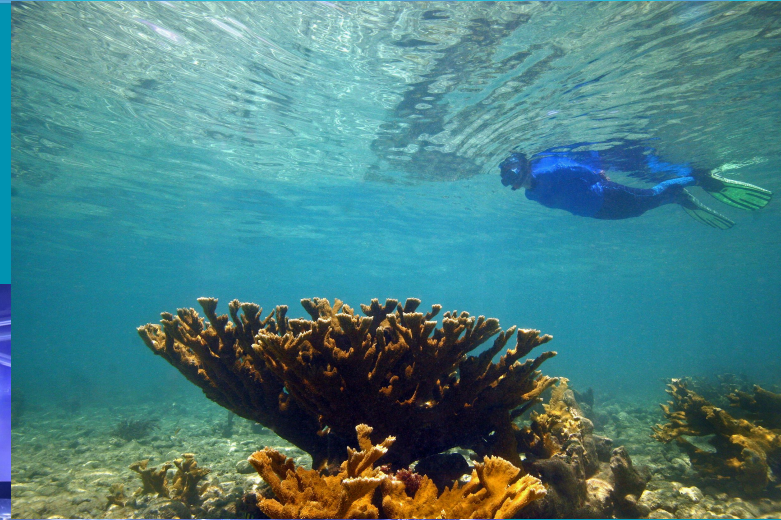
New Collaborations



➤ 20 Year Mission!



➤ New Research & Development



➤ New Methodologies & Technologies



Moving from the immediately feasible to the progressively possible



Questions / comments / partnership collaboration ideas?

megan.fraser@noaa.gov

