



# SOUTHERN ENVIRONMENTAL ASSOCIATION

*National Office: Placencia Village, Stann Creek District, Belize, Central America*  
Phone: 501-523-3377, [www.seabelize.bz](http://www.seabelize.bz), [info@seabze.org](mailto:info@seabze.org)

## **Southern Environmental Association (SEA) Fish Spawning Aggregation Monitoring Training Workshop**

**Placencia Community Center**

**Date: 23-27 May 2024**

### **Agenda:**

#### **Day 1: 23 May 2024**

##### **Morning:**

1. Welcoming Remarks
2. Introduction of participants and organizations
3. Overview: Workshop Purpose and Intended Outcomes
4. Who's Doing What Where/Gaps in Knowledge/Current Methods/Problems Encountered

##### **Morning coffee/tea break**

5. Introduction to Fish Spawning Aggregations (FSA): The Why, How and Where of FSA
6. Ecosystem Importance of FSA
7. Fisheries Impacts to FSA and FSA-Fishing Impacts to Fisheries
8. Caye Glory Case Study
9. Fisheries Impacts to Regional and Global FSA

##### **Lunch break**

##### **Afternoon session (ends at 2 p.m.)**

10. FSA Recovery from Fishing
11. Management Options to Conserve FSA

##### **Afternoon at Hotel(s)**

12. Open discussion

#### **Day 2: 24 May 2024**

1. FSA Monitoring
  - a. Constraints to Monitoring



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- b. FSA Spatial and Temporal Components
  - c. Fish Movement to and from FSA
  - d. Types of FSA: Habitat Associations
  - e. Monitoring Water Column-Associated FSA
  - f. Monitoring Substrate-associated species
  - g. The use of transects and point count methods
  - h. Maximizing monitoring effectiveness
  - i. Where, when and how?
2. Laser pointer demonstration
3. Introduction to new techniques for assessing FSAs
4. Dive safety
5. Video of operation of DAN O2 Kit and protocols for dive emergencies
6. Overview, preparation and expectations for Day 3 and Day 4 diving at Gladden Spit

### **Day 3: 25 May 2024—Gladden Spit**

1. Dive Gladden. Departure time to be decided.

### **Day 4: 26 May 2024— Gladden Spit**

1. Dive Gladden. Departure time to be decided.

### **Day 5: 27 May 2024**

1. Check-out and flight/car return to home base.



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## Attendance Sheet



MAR Fish -Knowledge, monitoring and protection of Mesamerican reef's fish spawning aggregations

### REGIONAL WORKSHOP

DAY 1

Date May 23rd, 2024

#	Name	Organization	Training	Email	Contact	Signature
1	Raphael Martinez	Healthy Reefs	Diver	<a href="mailto:martinez@healthyreefs.org">martinez@healthyreefs.org</a>	5016100772	
2	Paolo Guardiola	The Coral Reef Alliance	Diver	<a href="mailto:pguardiola@coral.org">pguardiola@coral.org</a>	+504 95527521	
3	Andrea Godoy Mendoza	Roatan Marine Park	Diver	<a href="mailto:andrea.godoy@roatanmarinepark.org">andrea.godoy@roatanmarinepark.org</a>	+504 3282-8508	
4	Ronald Barrera	Roatan Marine Park	Diver	<a href="mailto:michelle.cerrato@roatanmarinepark.org">michelle.cerrato@roatanmarinepark.org</a>	+504 94390324	
5	Genevieve Ramirez	SEA	Diver	<a href="mailto:27jenram@gmail.com">27jenram@gmail.com</a>	6291851	
6	Elizabeth Muschamp	SEA	Diver		6152823	
7	Roneisha Williams	SEA	Secretariat		620-4392	
8	Sade Rowland	SEA	Diver	<a href="mailto:rowlandsade22@gmail.com">rowlandsade22@gmail.com</a>	534-0616	
9	Angel Faux	SEA	DIVE MASTER			
10	Allen Coy	SEA	DIVE MASTER		655-7100	
11	Linda Garcia	SEA	DIVE MASTER		671-5807	