

September 2016 - December 2022

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Data Collection AP
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## **TABLES**

Table 1. Condition of gag grouper on arrival by year.

Condition On Arrival	2016	2017	2018	2019	2020	2021	2022	Total
Dead on Arrival - Damaged	1	0	1	0	0	2	0	4
Dead on Arrival - Undamaged	0	1	0	0	1	0	0	2
Live - Damaged	0	0	0	0	0	0	1	1
Live - Healthy	167	120	118	62	53	212	143	875
Live - Stomach and/or Eyes Protruding	42	22	84	33	16	73	32	302
Total	210	143	203	95	70	287	176	1184

Table 2. Condition of gag grouper on arrival (percentages).

Condition On Arrival	% of Gag Grouper				
Dead on Arrival - Damaged	0.34				
Dead on Arrival - Undamaged	0.17				
Live - Damaged	0.08				
Live - Healthy	73.90				
Live - Stomach and/or Eyes Protruding	25.51				

Table 3. Fate of gag grouper on arrival by year.

Catch Fate	2016	2017	2018	2019	2020	2021	2022	Total
Discarded - Dead	1	1	1	1	0	1	1	6
Discarded - Live and Damaged (Not Vented)	0	0	0	1	0	0	0	1
Discarded - Live and Healthy (Not Vented)	1	0	1	2	4	1	2	11
Discarded - Live and Healthy (Vented)	6	1	0	3	2	4	9	25
Retained	202	141	201	88	63	281	164	1140
Unknown Fate	0	0	0	0	1	0	0	1
Total	210	143	203	95	70	287	176	1184

Table 4. Fate of gag grouper on arrival (percentages).

Catch Fate	% of Gag Grouper
Discarded - Dead	0.51
Discarded - Live and Damaged (Not Vented)	0.08
Discarded - Live and Healthy (Not Vented)	0.93
Discarded - Live and Healthy (Vented)	2.11
Retained	96.28
Unknown Fate	0.08

### **FIGURES**

#### Gag Grouper CPUE on Longline Catch per 1000 Hook Hours Aug 2016-Dec 2018-Aug 2017-Dec 2019-Dec 2016-Aug 2019-Apr 2020 -Aug 2020-Aug 2018-Aug 2021 -Aug 2022-Apr 2021 -Apr 2018 Apr 2019 Dec 2020 Apr 2017 Dec 2017 Apr 2022 Dec 2021

Figure 1. Gag grouper CPUE.

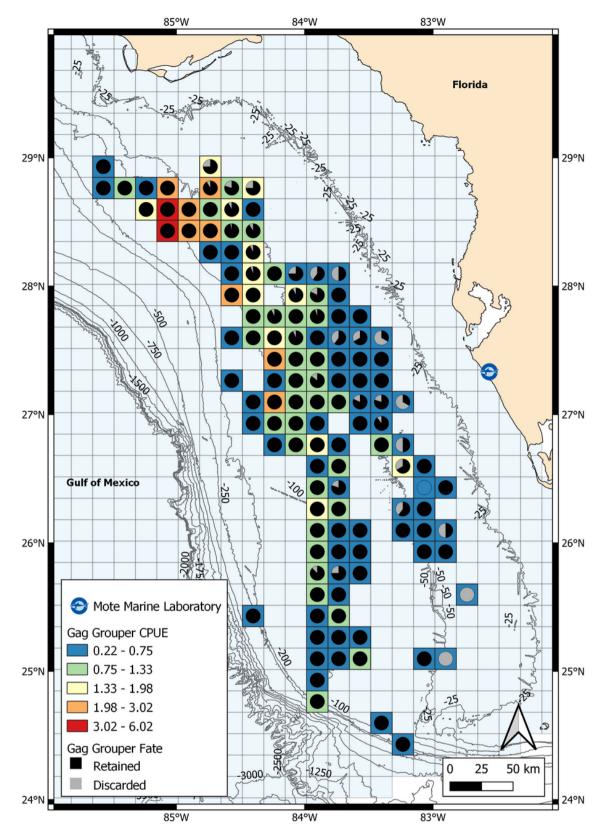


Figure 2. Gag grouper fate proportioned overlaying mean CPUE of set hauls within each spatial grid.

• The highest CPUE areas are located in the northwest sector of the fishing area adjacent to MPA's closed for gag grouper spawning. The shallower areas closer to shore (often targeted for red grouper) yield low CPUE, but a higher propensity to discarded gag grouper.

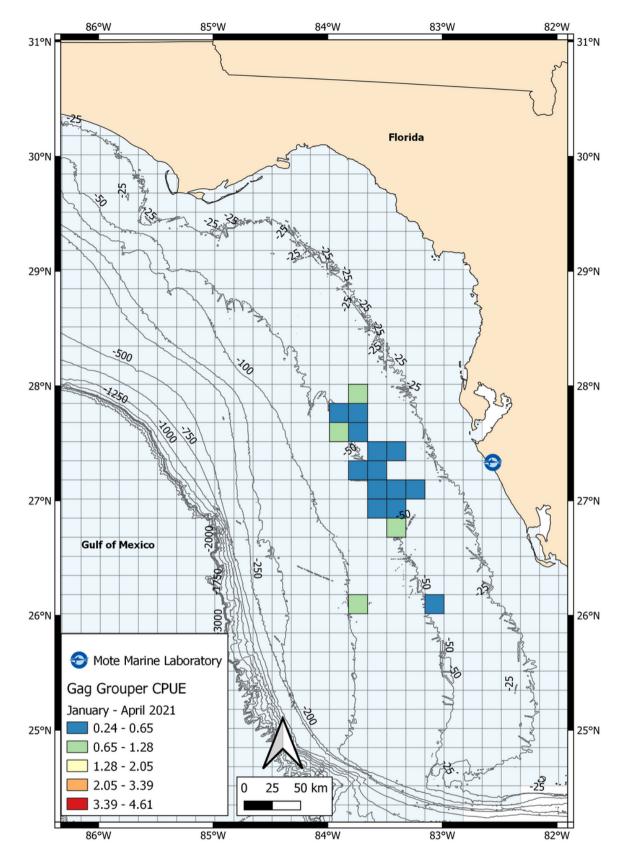


Figure 3. Gag grouper CPUE during the spawning season, January-April, 2021.

 Low CPUE observed during the spawning season (see Figure 1) due to fishing effort being primarily outside the northwest sector.

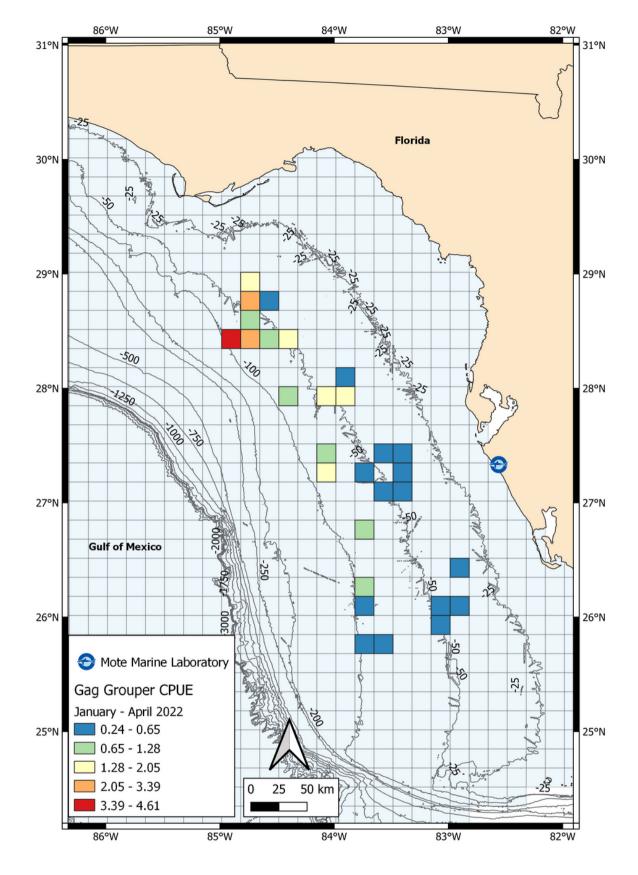


Figure 4. Gag grouper CPUE during the spawning season, January-April, 2022.

- High CPUE events during the spawning season (observed in Figure 1) driven by catch rates adjacent to known aggregation areas.
- These EM derived data suggest spatially explicit management may help support sustainable harvest.

### CFEMM HOME PORT

#### **About CFEMM Home Port**

CFEMM Home Port is a passwordprotected website that allows commercial fishers, fisheries managers and marine scientists to exchange knowledge produced through electronic monitoring (EM) of fisheries in the Gulf of Mexico.



#### **How CFEMM Home Port Can Help You**

Members of the commercial fishing industry can:

- Download short trip highlight videos recorded from their trips
- Access data products\* designed to help you optimize your fishing practices and better understand your patterns (includes maps and tables)
- Fill out surveys
- Communicate with the CFEMM team and find contact information

#### Fishery Managers can:

- Request data and data products\* from CFEMM's participating commercial fishing vessels in the Gulf (2016-2022 available)
- Facilitate discussions on how electronic monitoring can help answer fisheries questions
- Access forms, surveys, and nondisclosure agreements
- Get feedback direct from our participating fishers

\*Note: Confidentiality of individual vessel data is of the utmost importance to the CFEMM and is protected through national policy guidance and/or at a CFEMM participants' request.

We Welcome Your Feedback & Requests:

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### CFEMM SUPPORT

**Environmental Defense Fund** 

**National Fish and Wildlife Foundation Innovation Fund** 

National Fish and Wildlife Foundation Electronic Monitoring and Recording Program

**Net Gains Alliance** 

**NOAA Bycatch Reduction and Engineering Program** 

**NOAA Cooperative Research Program** 

**Ocean Conservancy** 

**Sustainable Fisheries Partnership** 

Sustainable Ocean Alliance

**Sea Pact** 

