



**NOAA
FISHERIES**

Southeast Fisheries
Science Center,
Sustainable
Fisheries Division

CFMC Meeting SEDAR Stock Assessment Matrix

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Objectives

Objetivos

- Develop a process to prioritize federally-managed species for SEDAR stock assessment schedule
- Identify species with adequate data to attempt a stock assessment
- Identify species to recommend for research and data collection
- Federally-managed species
 - Island-based Fishery Management Plans

Process

Proceso

SS = single species
MS = multiple species

**Phase 1:
Add species**

Group A: Indicator species

Group B: Not indicator species in SS stock

Group C: Species in MS stock without an indicator species

Group D: Not indicator species in a stock with indicator species

**Phase 2:
Add information**

A. Catch (commercial and recreational landings)

B. Biological (size comps and life history)

C. Abundance (FI surveys and CPUE)

**Phase 3:
Further research**

- Spatial and temporal distribution

- Additional data sources

- Species-specific concerns or challenges

**Phase 4:
Matrix**

- List of federally-managed species to recommend to attempt a stock assessment

- Recommend federally-managed species for research and data collection

St. Thomas & St. John

Preliminary results
Resultados preliminares

Common Name	Stock	CATCH		BIOLOGICAL		ABUNDANCE	
		Com Landings	Rec Landings	Size Comps	Life History*	RVC	Catch Rates
Red hind grouper	Grouper 3	Yes	No	Yes	Yes	Yes	Yes
Gray angelfish	Angelfish	Yes	No	Low	No	Yes	Yes
White grunt	Grunts 1	Yes	No	Yes	Yes	No	Yes
Doctorfish	Surgeonfish	Yes	No	Yes	Low	Yes	Yes
Saucereye porgy	Porgies	Yes	No	Yes	Low	Yes	Yes
Redtail parrotfish	Parrotfish 2	Yes	No	Low	Low	No	Yes
Stoplight parrotfish	Parrotfish 2	Yes	No	Low	Low	Yes	Yes
Mutton snapper	Snapper 3	Yes	No	Low	Yes	No	Low
Blackfin snapper	Snapper 1	Yes	No	Low	Low	No	Low

*Based on Stevens et al. 2019

St. Croix

Preliminary results
Resultados preliminares

Common Name	Stock	CATCH		BIOLOGICAL	ABUNDANCE		
		Com Landings	Rec Landings	Size Comps	Life History*	RVC	Catch Rates
Stoplight parrotfish	Parrotfish 2	Yes	No	Yes	Low	Yes	Yes
Redtail parrotfish	Parrotfish 2	Yes	No	Yes	Low	Yes	Yes
Blackfin snapper	Snapper 1	Yes	No	Yes	Low	No	Low
Red hind grouper	Grouper 4	Yes	No	Yes	Yes	Yes	Yes
Silk snapper	Snapper 1	Yes	No	Yes	Low	No	Low
Coney	Grouper 3	Yes	No	Yes	Low	Yes	Yes

*Based on Stevens et al. 2019

Puerto Rico

Preliminary results
Resultados preliminares

Common Name	Stock	CATCH		BIOLOGICAL	ABUNDANCE		
		Com Landings	Rec Landings	Size Comps	Life History*	RVC	Catch Rates
Silk snapper	Snapper 1	Yes	Yes	Yes	Low	No	Yes
Queen snapper	Snapper 2	Yes	Yes	Yes	Low	No	Low
Dolphin	Dolphinfish	Yes	Yes	Yes	No	No	Low
Mutton snapper	Snapper 4	Yes	Yes	Yes	Yes	No	Low
Queen triggerfish	Triggerfish	Yes	Yes	Yes	Low	Yes	Yes
Red hind grouper	Grouper 6	Yes	Yes	Yes	Yes	Yes	Low
Coney	Grouper 3	Yes	No	Yes	Low	Yes	Low

*Based on Stevens et al. 2019

Phase 3: Further research

Fase 3: Investigación adicional

1. Identify more data sources available for:
 - a. Life history
 - b. Estimates of abundance
 - c. Recreational data
2. Literature review using the Caribbean Research Inventory
 - a. Investigate the spatial and temporal distribution of the data
3. Determine if the data available is enough to attempt a stock assessment

Next steps

Próximos pasos

- Develop the scoring system
- Update commercial landings to include data until 2021
- Develop a program to automate the data triage table
- Frequently update the data triage table using the Caribbean Research Inventory

THANK YOU!

¡GRACIAS!

Questions?

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