

**CARIBBEAN FISHERY MANAGEMENT COUNCIL
DISTRICT ADVISORY PANELS MEETING
VERDANZA HOTEL
CAROLINA, PUERTO RICO
MARCH 8, 2017**

DAP PUERTO RICO BREAKOUT DISCUSSION

Species and Species Groupings

Present were Jesse Rivera, Gregg Engstrom, Roberto Reyes, Héctor Benítez, Nelson Crespo (Chair), Roberto Silva, Héctor Padró, Cedric Taquin, Israel Umpierre, Luis Román, PEW Charitable Trust (Yasmin Vélez Sánchez), Rai Espinoza, Graciela García-Moliner.

The DAP PR discussed SU1 and presented the reasons to separate wenchman (*Pristipomoides aquilonaris*) from the unit:

- Fishermen catch species in SU1 together except for wenchman which is caught often in shallower waters.
- Wenchman is not targeted much because they don't have a market in the west coast but it does have a market in the south coast—hence the need to consider the differences between coasts in the island FMP.
- They are usually too small and wenchman is not often seen in restaurants.
- Gear types are somewhat different for fishing for wenchman.
- If wenchman is not caught with other species we should keep it in this group but keeping in mind that it would increase overall landings.
- Wenchman is prey for queen snapper and some groupers.
- It is feasible to target wenchman alone.
- RECOMMENDATION- wenchman should be separated from SU1 (8 in favor, 1 abstention), it could be SU1x. The difference between coasts should be taken into consideration for managing wenchman.

RECOMMENDATION for SU2: everyone agrees that this unit should remain as is.

RECOMMENDATION SU3: this species should remain alone because it is targeted alone (you could catch other species but the target is lane snapper)

RECOMMENDATION SU4:

- ✓ Mutton should be alone because they occur in a different habitat; this species is kind of pelagic

RECOMMENDATION SU4B (dog and schoolmaster) should remain together. Not all are ciguatoxic, it depends on the area where they are caught.

The topic of Ciguatera was further discussed by the DAP PR and the following comments were made:

- ✓ Ciguatera should not be considered to establish stock complexes; we could have species that are in the same area that have ciguatera and others that don't.
- ✓ To avoid ciguatera, you could consider establishing a size limit because it is known that fish that are bigger are the ones that generally have ciguatera.
- ✓ Big fish don't have a market because of the ciguatera risk not because they are infrequent.
- ✓ Ciguatera cases have increased in Arecibo (north coast).
- ✓ Conduct studies about ciguatera in PR to have a better understanding of the problem.

RECOMMENDATION- Council to reach out to Sea Grant to educate fishermen about fish handling and seafood safety.

RECOMMENDATION: SU5 and SU6 should be considered as is because these species are targeted separately.

Groupers in GU1 and GU2 should remain as is. However, GU3 should be subdivided as follows:

- Red hind should be alone- economic value, big spawning aggregation.
- Coney & rock hind could be caught in shallow waters.
- Rock hind should be part of GU3.
- RECOMMENDATION:
 - GU3- coney, grasby, rock hind
 - GUx- red hind

GU4 should remain as is but keeping in mind that red grouper is confused with Nassau Grouper and that yellowmouth has been seen in deep waters.

GU5 (misty and yellowedge) are both bycatch and not targeted species but both co-occur.

The group agreed that the groupings presented for grunts, jacks, parrotfish, surgeonfish, triggerfish, wrasses, angelfish, barracuda, dorado, tripletail should remain as they are. The DAP PR also agreed that groupings for queen conch, spiny lobster, sea cucumbers, corals and urchins should remain as they are now.

However, the group recommended that the mackerels and tunas be separated so that each species is analyzed alone:

- Mac 1- little tunny and blackfin tuna:
 - They don't appear together.
 - Blackfin is caught in a different way.
 - Blackfin is more pelagic

RECOMMENDATION- SEPARATE LITTLE TUNNY AND BLACKFIN TUNA

- K01- king and cero mackerels
 - Should be separated.
 - Fishermen target one or the other.
 - Two different fisheries.

RECOMMENDATION- SEPARATE THE SPECIES.

The DAP PR also discussed the Mantas and rays and sting rays and agreed that:

- More information is needed about these species and brought up to light to educate the public.
- Include in reporting form to get more data.
- Economic value of sting ray is minimal, it is not a target.
- Species do not have commercial value but are valuable for tourism purposes.
- Separate each species.
- Sting ray is caught using different gear types.

Action 2: Species to be Included for Management by Island (IBFMP)- Stock complexes PR				Grouping	
	Scientific Name	Common Name	Spanish Name	SSC	DAP
Lutjanidae -- Snappers					
	<i>Apsilus dentatus</i>	Black snapper	Pargo Prieto	SU1	SU1
	<i>Lutjanus buccanella</i>	Blackfin snapper	Alinegra	SU1	SU1
	<i>Lutjanus vivanus</i>	Silk snapper	Chillo	SU1	SU1
	<i>Rhomboplites aurorubens</i>	Vermilion snapper	Besugo	SU1	SU1
	<i>Pristipomoides aquilonaris</i>	Wenchman	Limosnera	SU1	SU1X
	<i>Pristipomoides macrophthalmus</i>	Cardinal	Muniama de Afuera	SU2	SU2
	<i>Etelis oculatus</i>	Queen snapper	Cartucho	SU2	SU2
	<i>Lutjanus synagris</i>	Lane snapper	Arrayao	SU3	SU3
	<i>Lutjanus analis</i>	Mutton snapper	Sama	SU4	SU4
	<i>Lutjanus jocu</i>	Dog snapper	Pargo Colorao	SU4B	SUX
	<i>Lutjanus apodus</i>	Schoolmaster	Pargo Amarillo	SU4B	SUX
	<i>Ocyurus chrysurus</i>	Yellowtail snapper	Colirubia	SU5	SU5
	<i>Lutjanus cyanopterus</i>	Cubera	Pargo Mulato	SU6	SU6
Serranidae-- Sea basses and Groupers					

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	Scientific Name	Common Name	Spanish Name	SSC	DAP
	<i>Epinephelus striatus</i>	Nassau Grouper	Mero Cherna	GU1	GU1
	<i>Epinephelus itajara</i>	Goliath grouper	Mero Batata	GU2	GU2
	<i>Epinephelus fulvus</i>	Coney	Mantequilla	GU3	GU3
	<i>Epinephelus cruentatus</i>	Graysby	Mantequilla	GU3	GU3
	<i>Epinephelus guttatus</i>	Red hind	Cabrilla	GU3a	GUX
	<i>Epinephelus adscensionis</i>	Rock hind	Cabra Mora	GU3a	GU3
	<i>Mycteroperca bonaci</i>	Black grouper	Mero Prieto	GU4	GU4
	<i>Epinephelus morio</i>	Red grouper	Mero Rojo	GU4	GU4
	<i>Mycteroperca tigris</i>	Tiger grouper	Tigre	GU4	GU4
	<i>Mycteroperca venenosa</i>	Yellowfin grouper	Guajil	GU4	GU4
	<i>Mycteroperca interstitialis</i>	Yellowmouth	Guajil Boquiamarillo	GU4	GU4
	<i>Epinephelus mystacinus</i>	Misty grouper	Guasa	GU5	GU5
	<i>Epinephelus flavolimbatus</i>	Yellowedge grouper	Guajil Amarillo	GU5	GU5
	Haemulidae-- Grunts		Roncos		
	<i>Haemulon plumieri</i>	White grunt	Boquicolorao	Grunts	Grunts

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Carangidae-- Jacks					
	<i>Caranx hippos</i>	Crevalle (Territorial?)	Jurel	JU1	JU1
	<i>Alectis ciliaris</i>	African Pompano	Pampano	JU2	JU2
	<i>Elagatis bipinnulata</i>	Rainbow runner	Salmon	JU3	JU3
Scaridae-- Parrotfishes					
	<i>Scarus coeruleus</i>	Blue parrotfish	Brindao	Parrot 1	Parrot 1
	<i>Scarus coelestinus</i>	Midnight parrotfish	Judío	Parrot 1	Parrot 1
	<i>Scarus guacamaia</i>	Rainbow parrotfish	Guacamayo	Parrot 1	Parrot 1
	<i>Scarus taeniopterus</i>	Princess parrotfish	Princesa	Parrot 2	Parrot 2
	<i>Scarus vetula</i>	Queen parrotfish	Loro Reina	Parrot 2	Parrot 2
	<i>Sparisoma chrysopterygum</i>	Redtail parrotfish	Loro Colirojo	Parrot 2	Parrot 2
	<i>Sparisoma viride</i>	Stoplight parrotfish	Loro Verde	Parrot 2	Parrot 2
	<i>Sparisoma aurofrenatum</i>	Redband parrotfish	Loro Banda Colorada	Parrot 2	Parrot 2
	<i>Scarus croicensis</i>	Striped parrotfish	Loro Rayado	Parrot 2	Parrot 2
Acanthuridae-- Surgeonfishes					
	<i>Acanthurus coeruleus</i>	Blue tang	Barbero	Surgeon	Surgeon
	<i>Acanthurus bahianus</i>	Ocean surgeonfish	Medico	Surgeon	Surgeon
	<i>Acanthurus chirurgus</i>	Doctorfish	Cirujano	Surgeon	Surgeon

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Balistidae-- Triggerfishes					
	<i>Canthidermis sufflamen</i>	Ocean triggerfish	Turco	Trigger	Trigger
	<i>Balistes vetula</i>	Queen triggerfish	Peje Puerco	Trigger	Trigger
	<i>Balistes capricus</i>	Gray triggerfish	Pejepuerco Blanco	Trigger	Trigger
Labridae-- Wrasses					
	<i>Lachnolaimus maximus</i>	Hogfish	Capitán	Wrasse 1	Wrasse 1
	<i>Halichoeres radiatus</i>	Puddingwife	Capitán de Piedra	Wrasse 2	Wrasse 2
	<i>Bodianus rufus</i>	Spanish hogfish	Loro Capitán	Wrasse 2	Wrasse 2
Pomacanthidae --Angelfishes					
	<i>Holacanthus ciliaris</i>	Queen angelfish	Isabelita	Angelfish	Angelfish
	<i>Pomacanthus arcuatus</i>	Gray angelfish	Isabelita gris	Angelfish	Angelfish
	<i>Pomacanthus paru</i>	French angelfish	Isabelita negra	Angelfish	Angelfish
Sphyraenidae - Barracudas					
	<i>Sphyraena barracuda</i>	Great barracuda	Picua	Barracuda	Barracuda
Coryphaenidae - Dolphin fish					

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	Scientific Name	Common Name	Spanish Name	SSC	DAP
	<i>Coryphaena hippurus</i>	Dolphin	Dorado	Dorado	Dorado
	<i>Coryphaena equiselis</i>	Pompano dolphin	Doradito	Dorado	Dorado
Lobotidae -- Tripletail					
	<i>Lobotes surinamensis</i>	Tripletail	Viajacas del mar	Tripletail	Tripletail
Scombridae -- Mackerels and tunas					
	<i>Euthynnus alletteratus</i>	Little tunny	Bonito	Mac 1	Mac 1
	<i>Thunnus atlanticus</i>	Blackfin tuna	Albacora	Mac 1	Mac 2
	<i>Scomberomorus cavalla</i>	King mackerel	Carite	K 01	K 01
	<i>Scomberomorus regalis</i>	Cero	Alasana	K 01	K02
	<i>Acanthocybium solandri</i>	Wahoo	Peto	Wahoo	Wahoo
Myliobatidae -- Eagle and manta rays					
	<i>Manta birostris</i>	Manta	Manta	Manta	Manta
	<i>Aetobatus narinari</i>	Spotted eagle ray (chucho)	Chuchos	Spot eagle	Spot eagle
Dasyatidae - sting rays					
	<i>Dasyatis americana</i>	Sting ray	Raya	sting ray	sting ray

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Strombidae -- True conchs					
	<i>Lobatus gigas</i>	Queen conch	Carrucho	QC	QC
Palinuridae -- Spiny lobsters					
	<i>Panulirus argus</i>	Caribbean spiny lobster	Langosta Espinosa	SL	SL
Class Holothuroidea --Sea Cucumbers			Pepinos de mar	Cucumbers	Cucumbers
Class Echinoidea -- Sea Urchins			Erizos	Urchins	Urchins
All Corals (soft, hard, mesophitic, deep)			Corales	ACL=0	ACL=0

On other topics, the DAP PR discussed the following issues:

The discussion on ciguatera applied to a number of groups and it is a concern because of the resultant economic impacts if someone is “poisoned”. The group emphasized the importance of education and research on this topic in light of the differences among the areas where ciguatera occurs.