

Artisanal Fishery Species of Local Concern Catch Data Presentation (Jun 2018 - May 2019)

Fishers' Workshop Presentation

Care House

25th June 2019



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Purpose of Project

- To collect data on species identified by fishers as being of concern with regard to their status and fishery.
- Present that data to fishers and facilitate the discussion of potential measures to improve their status.
- This project offers a complimentary fisher-driven approach of co-management.
- Purpose of today's meeting is to present the data analysis and discuss pragmatic measures to reduce impact upon species of local concern.



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Area of survey: Mahe Plateau



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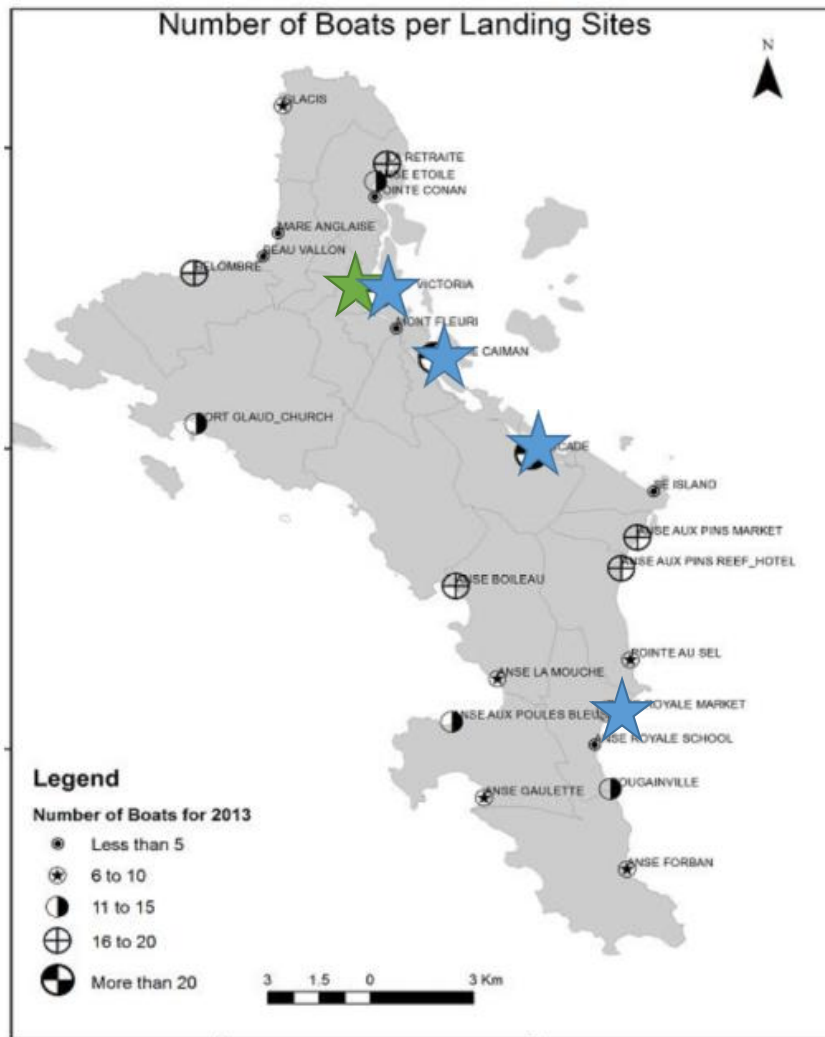
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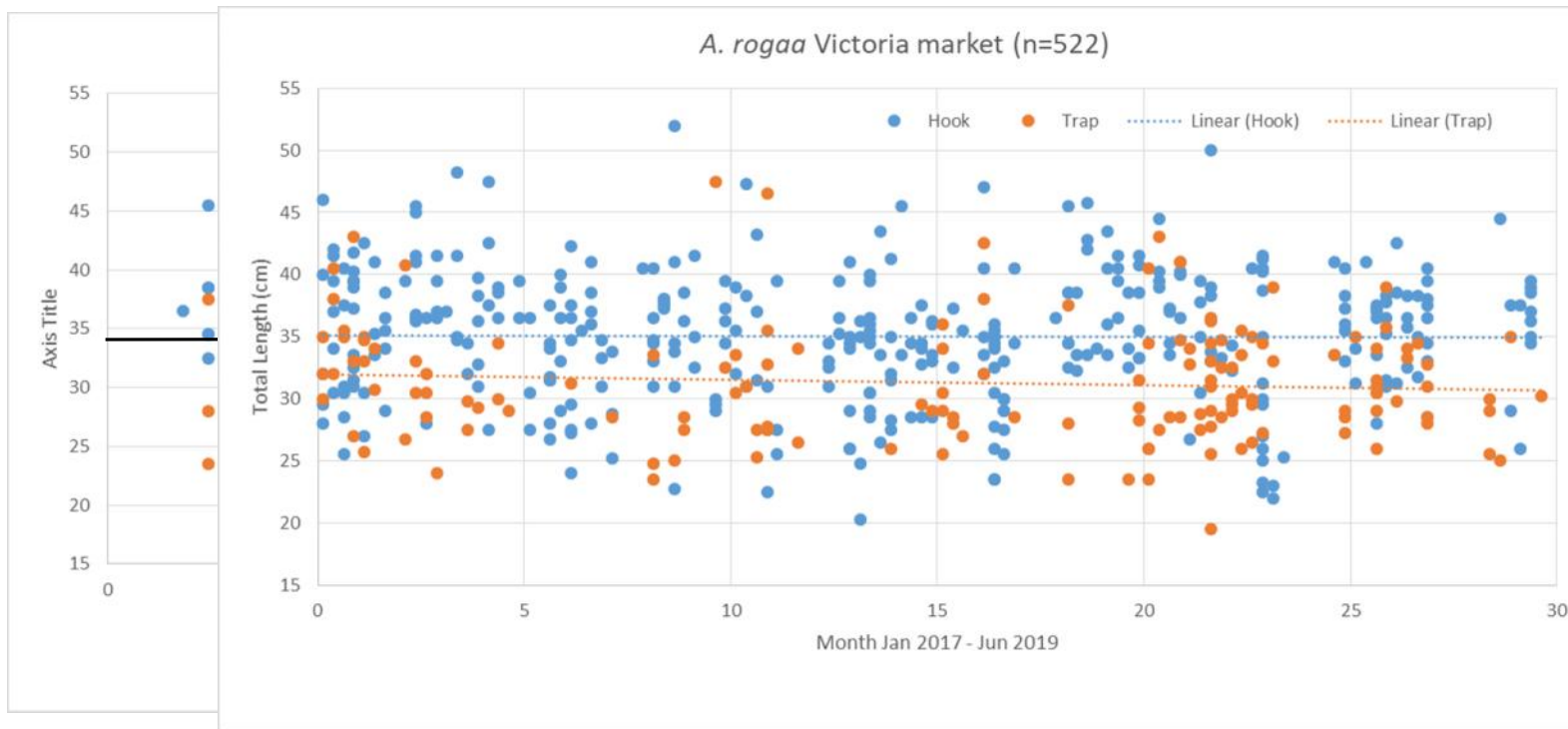
Fisher Identified Species of Local Concern

	Species	Common name	Creole name	IUCN Red list Status
1	<i>Aethaloperca roгаа</i>	Redmouth grouper	Galfa	(DD) LC
2	<i>Anyperodon leucogrammicus</i>	Slender grouper	Seval Dibwa	LC
3	<i>Cephalopholis argus</i>	Peacock hind	Vyey Kwizinyen	LC
4	<i>C. miniata</i>	Coral hind	Vyey Zannannan	LC
5	<i>Epinephelus coeruleopunctatus</i>	White-spotted grouper	Vyey Labouu	LC
6	<i>E. flavocaeruleus</i>	Blue and yellow grouper	Vyey Plat	LC
7	<i>E. fuscoguttatus</i>	Brown marbled grouper	Vyey Goni	(NT) VU
8	<i>E. longispinis</i>	Longspine grouper	Vyey Prine	LC
9	<i>E. macrospilos</i>	Snubnose grouper	Vyey sat	LC
10	<i>E. multinotatus</i>	White-blotched grouper	Vyey Plat	LC
11	<i>E. ongus</i>	White-streaked grouper	Vyey Avril	LC
12	<i>E. polyphekadion</i>	Camouflage grouper	Vyey Masata	(NT) VU
13	<i>E. tukula</i>	Potato bass	Tukula	LC
14	<i>Leptoscarus vaigiensis</i>	Marbled parrotfish	Marar	LC
15	<i>Plectropomus punctatus</i>	Marbled coral grouper	Babonn Rouz	(DD) LC
16	<i>Loxodon macrorhinus</i>	Sliteye shark 5	Landonny	LC

Species of Local Concern



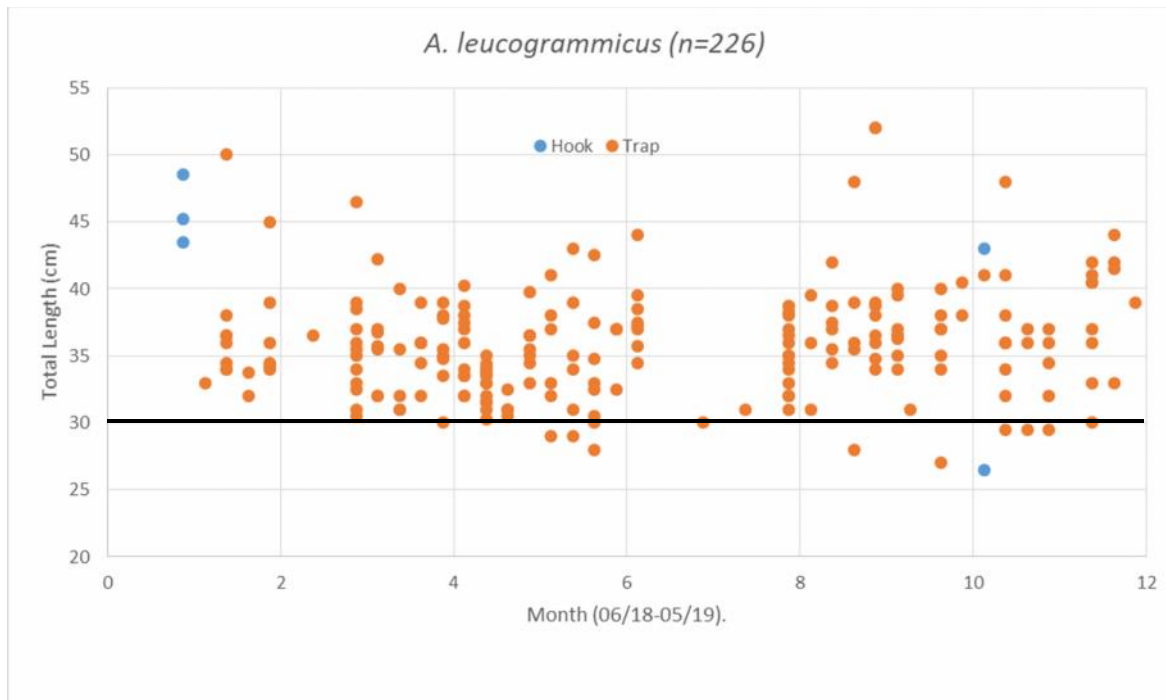
Redmouth Grouper (*Aethaloperca rogaa*) - Galfa



Lm ? Range 34-?cm TL
Max Length 60cm TL

Options for minimum size?
(35cm TL ?)

Slender Grouper (*Anyperodon leucogrammicus*) – Seval dibwa

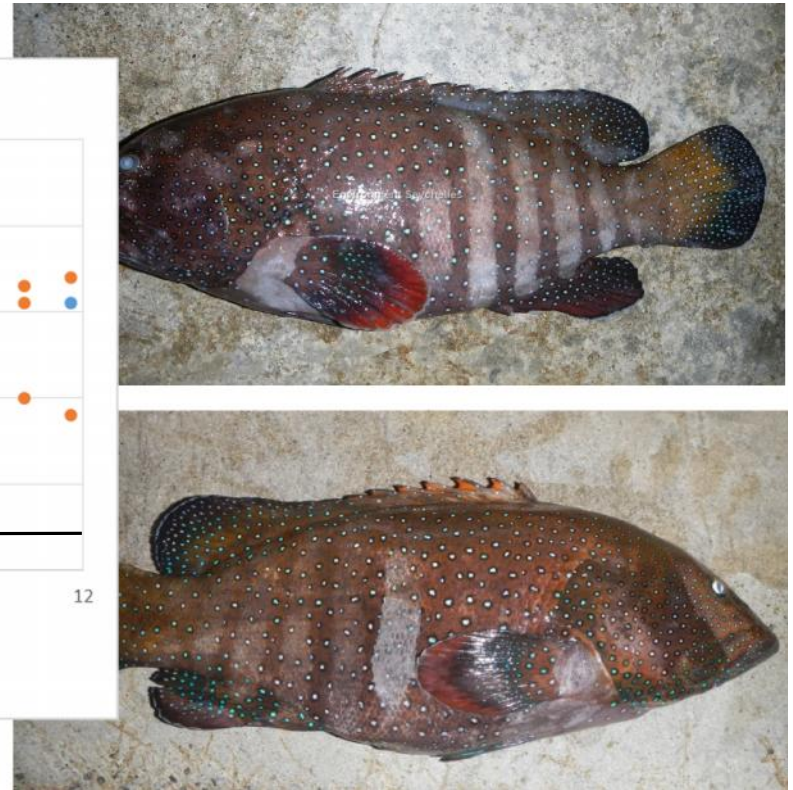
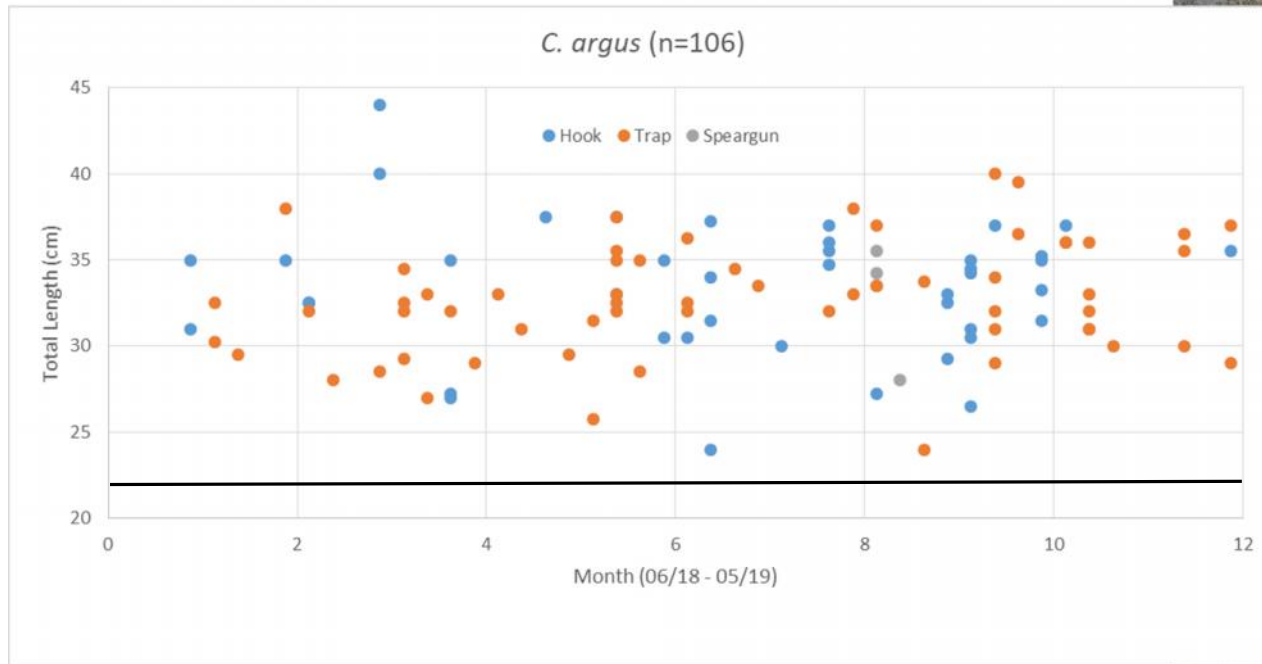


LM ? Range 30-? cm TL
Max length 65cm TL.

Juvenile/adult catch ratio is good.
No suggested actions.



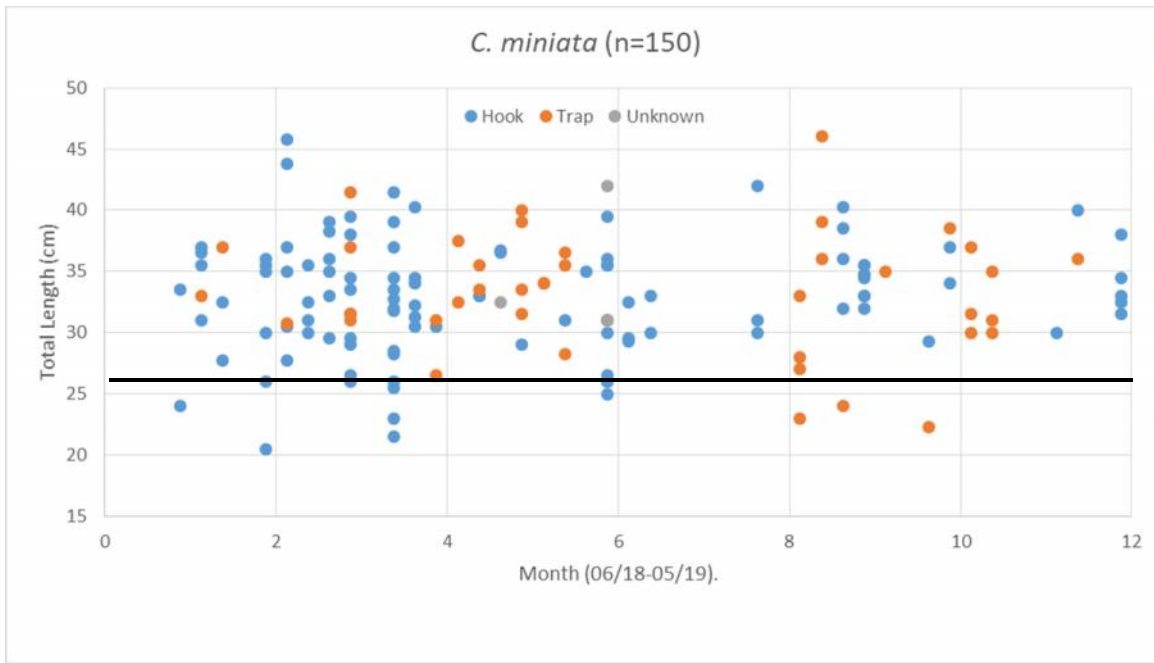
Peacock hind (*Cephalopholis argus*) – Vyey kwizinyen.



Lm ?. Range 22-?cm TL
Max Length. 60cm TL.

Catch demographic is good.
No suggested actions.

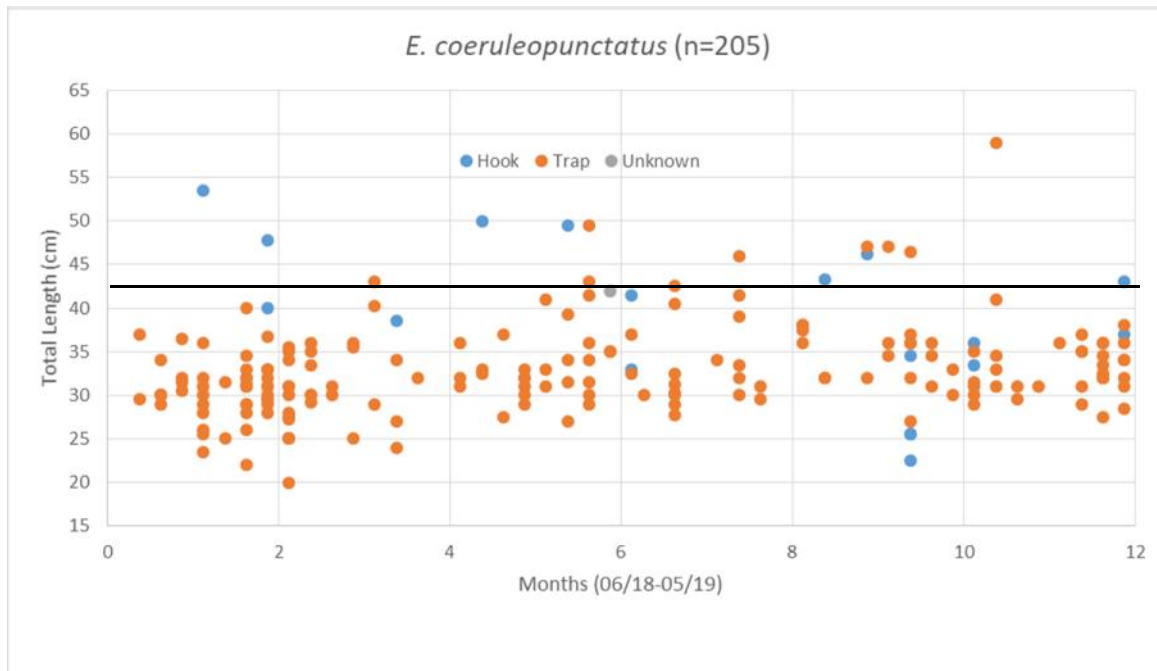
Coral hind (*Cephalopholis miniata*) – Vyey zannannan



Lm: ? Range 26-?cm TL
Max Length: 50cm TL.

Juvenile/adult catch ratio is good.
No suggested actions.

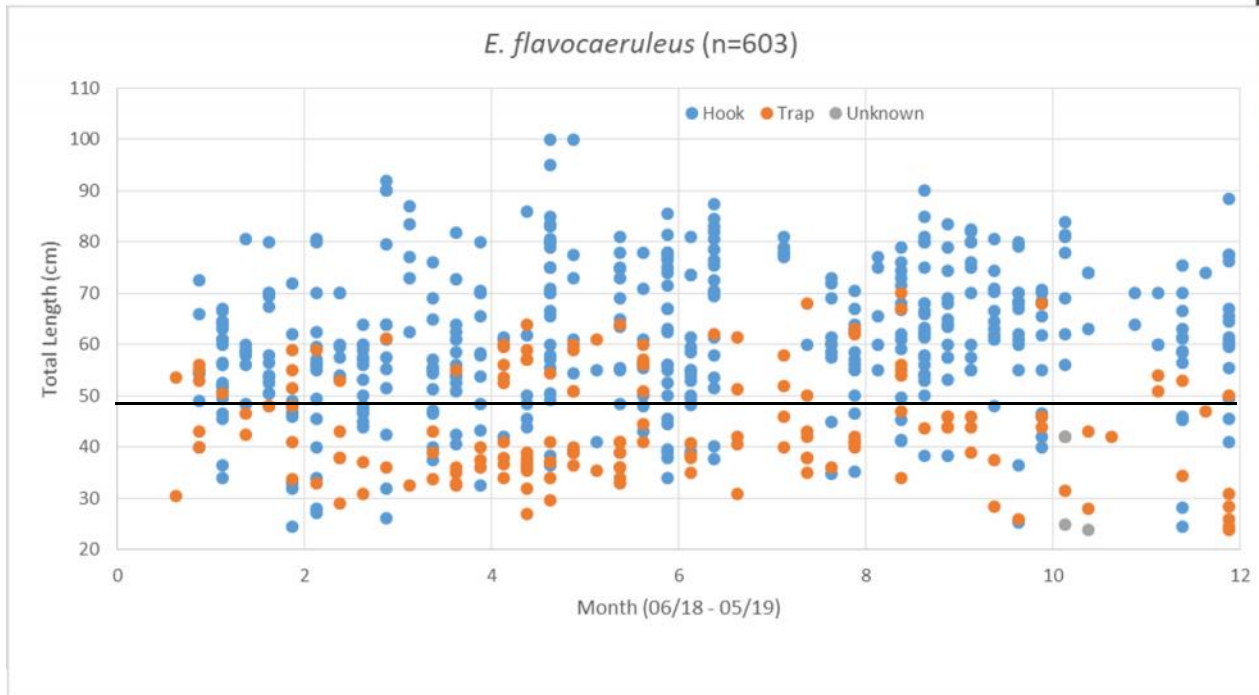
Whitespotted grouper (*Epinephelus coeruleopunctatus*) – Vyey labou



LM ?. Range 42 - ?cm TL
Max Length: 76cm TL.

Catch demographic is bad...
vast majority of catch is juvenile.
Propose minimum size (40-45cm TL).

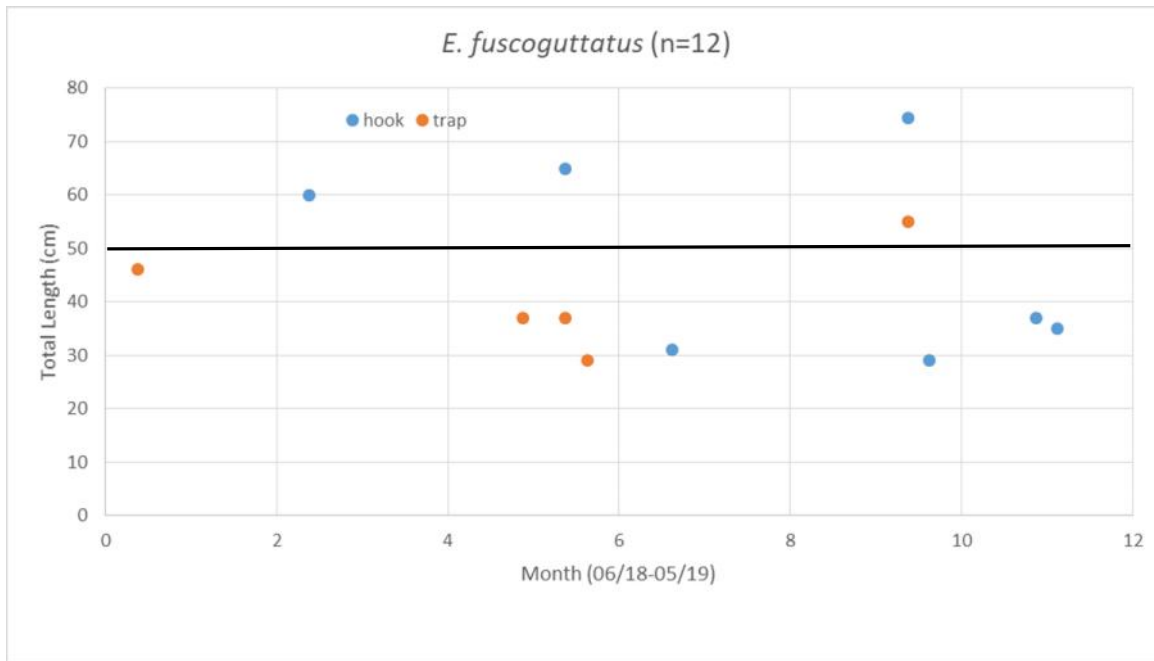
Blue-and-yellow Grouper (*Epinephelus flavocaeruleus*) – Vye plat



Lm: ? Range 49-?cm TL
Max Length: ~ 100cm TL

Catch demographic not too bad.
A minimum retention size would
be preferable though.

Brown-marbled grouper (*Epinephelus fuscoguttatus*) – Vyey goni

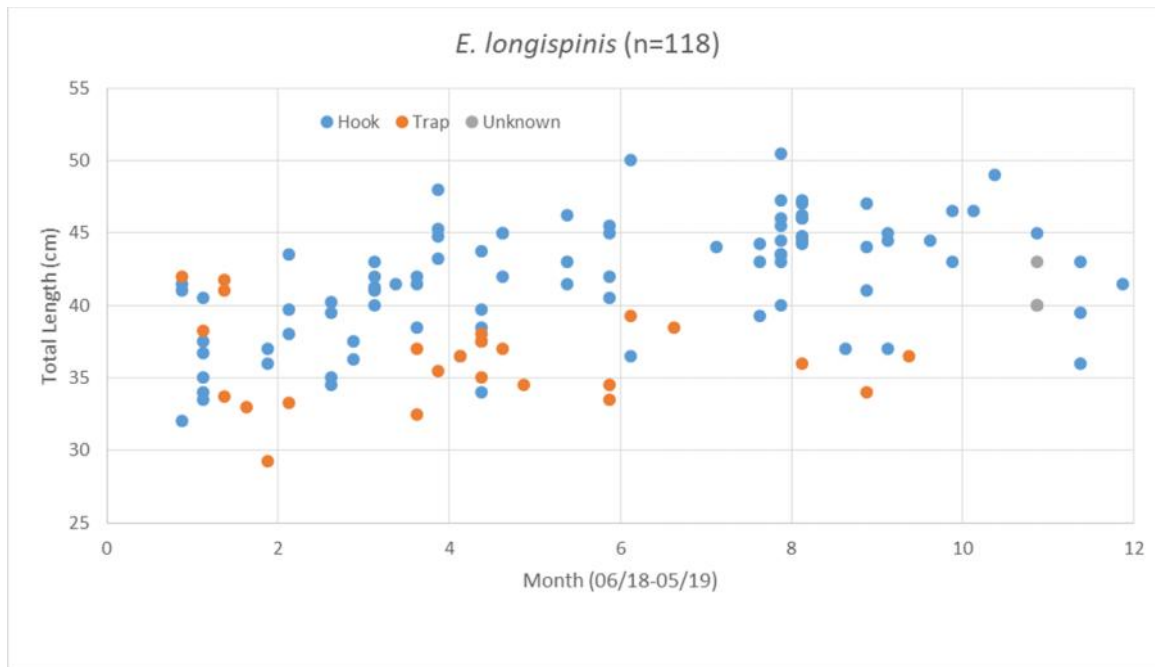


LM ?. Range 50 - ? cm TL.
Max length: 120cm TL.

Catch demographic not good (67% juvenile).
Rare component of the catch & IUCN VU
suggest 50cm TL minimum catch size.



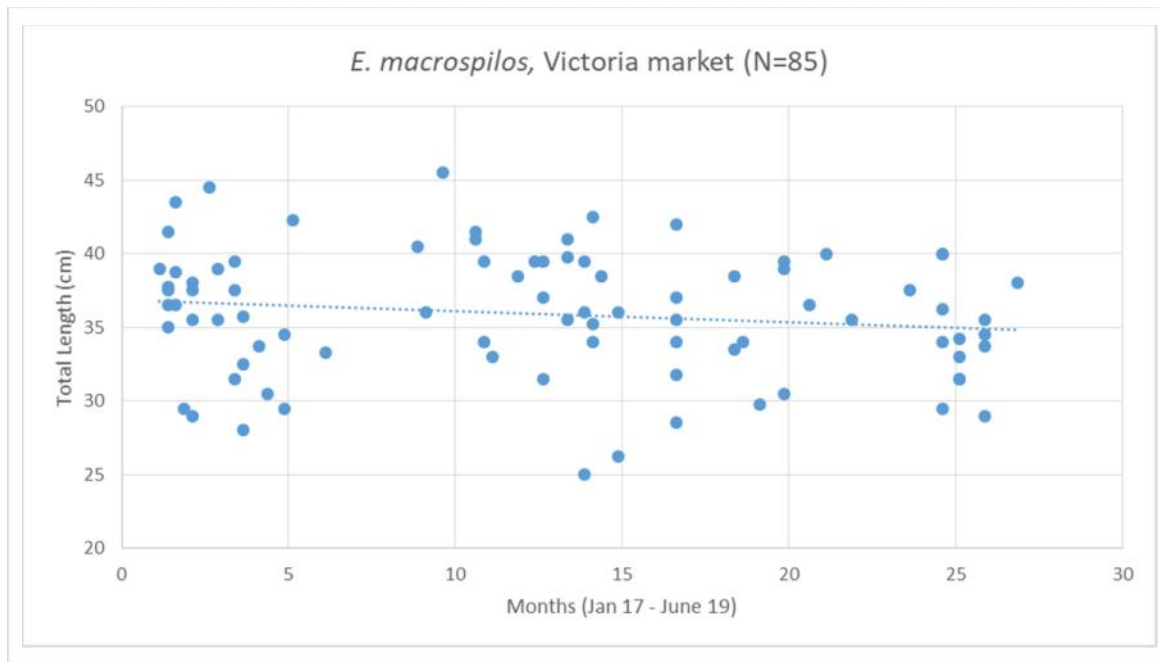
Longspine grouper (*Epinephelus longispinis*) – Vyey prine



Lm 23 cm TL. Max length 55cm TL.

Catch demographic good.
No suggested actions.

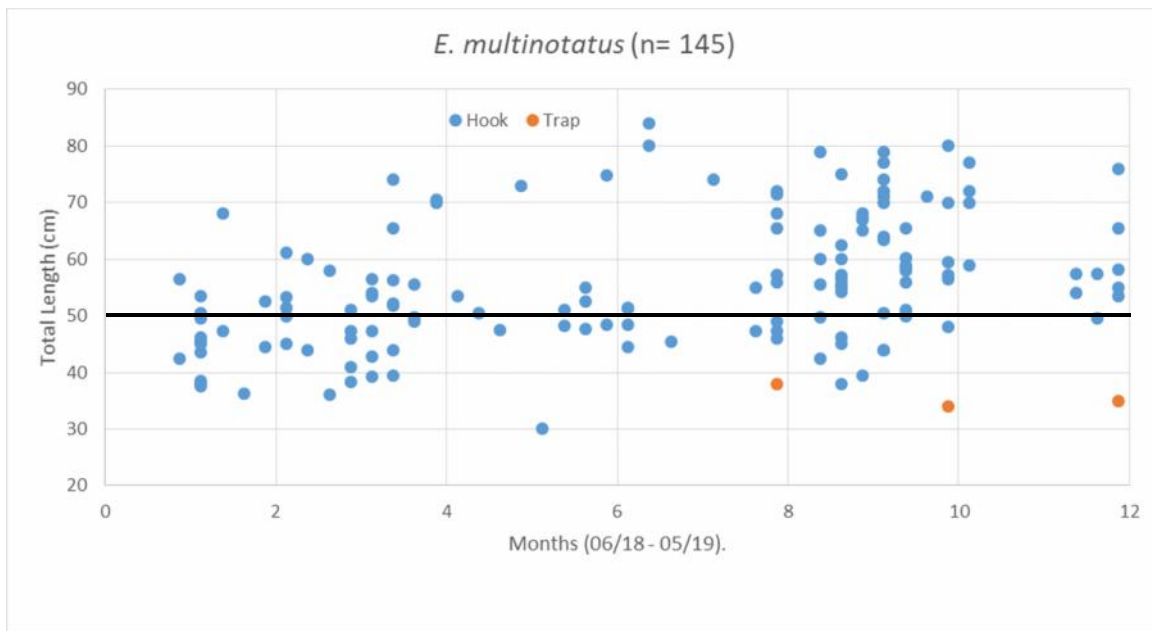
Snubnose grouper (*E. macropsilos*) – Vyey sat



LM ?. Range ?.
Max Length 52cm TL.

No strong indicators for concern but information lacking.
No suggested actions. Continued monitoring desirable.

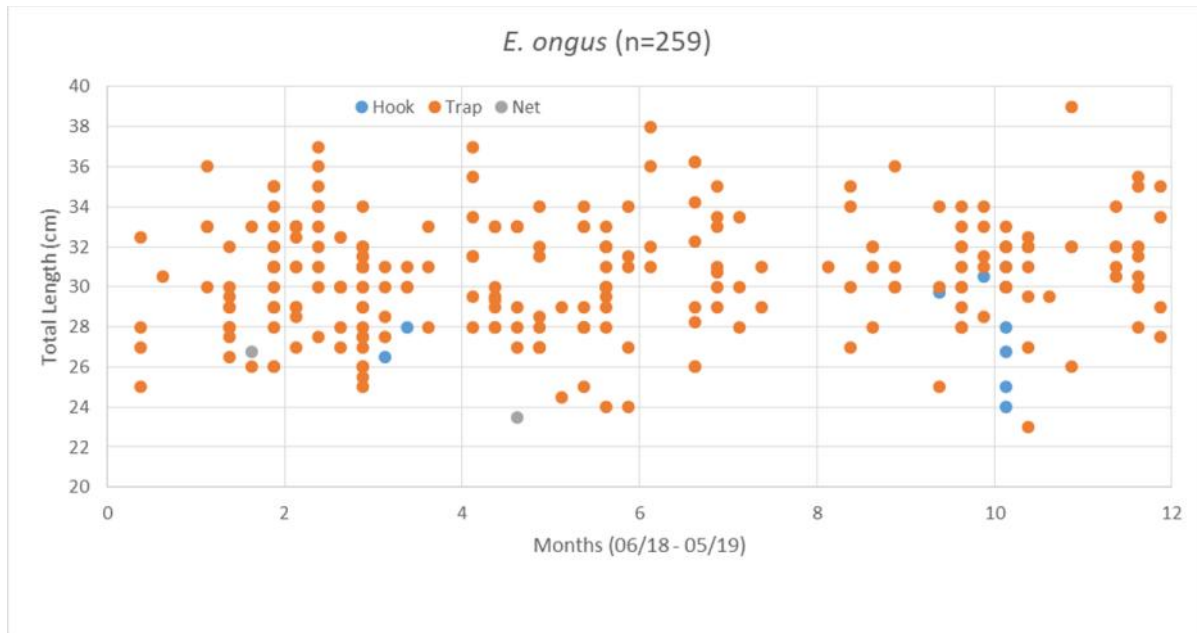
White-blotched grouper (*E. multinotatus*) – Vyey plat



LM ?. Range ? – 50cm TL.
Max length 100cm TL.

Catch demographic moderate. Propose minimum e.g. 50cm TL.
Would need to be same as for *E. flavocaeruleus*.

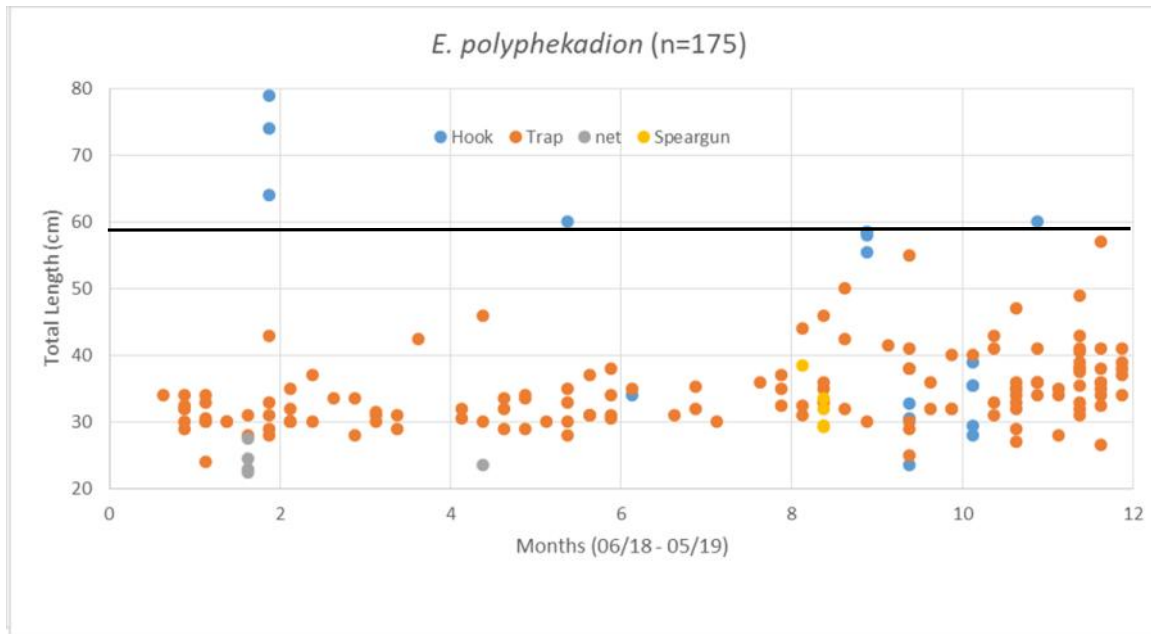
White-streaked grouper (*E. ongus*) – Vyey avril



Lm ? Range: 16 - ?cm TL
Max length: 40cm TL.

Catch demographics good.
No fishery measures proposed.
Environmental issues (reclamation) should be addressed.

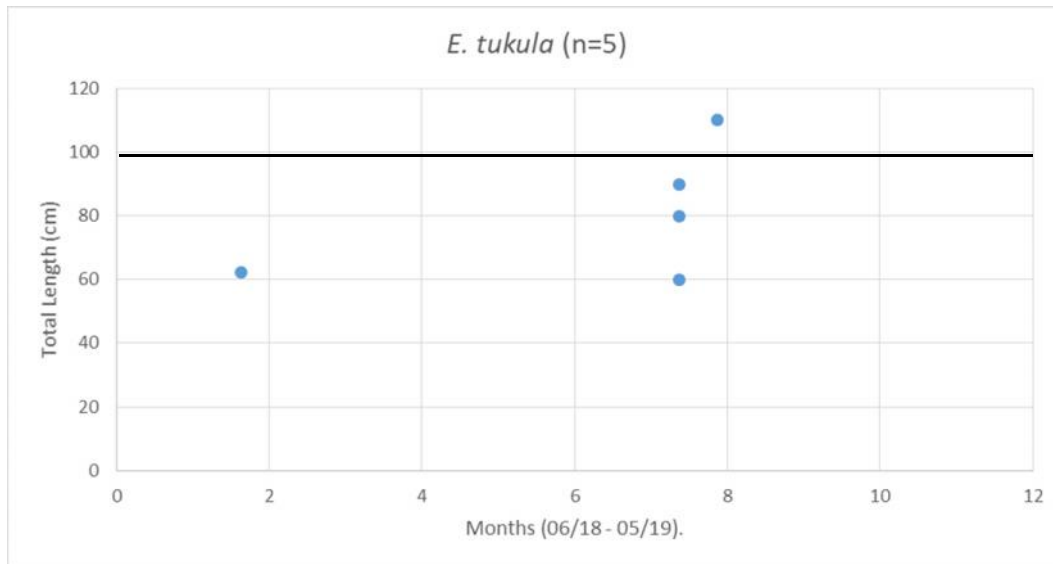
Camouflage grouper (*E. polyphkadion*) – Vyey masata



Lm ?. Range 58-?cm TL
Max Length 90cm.

Catch demographic very bad. (IUCN VU).
Vast majority of catch juvenile. Prognosis poor.
Suggest minimum size of 50-60cm TL.

Potato bass (*E. tukula*) - Tukula

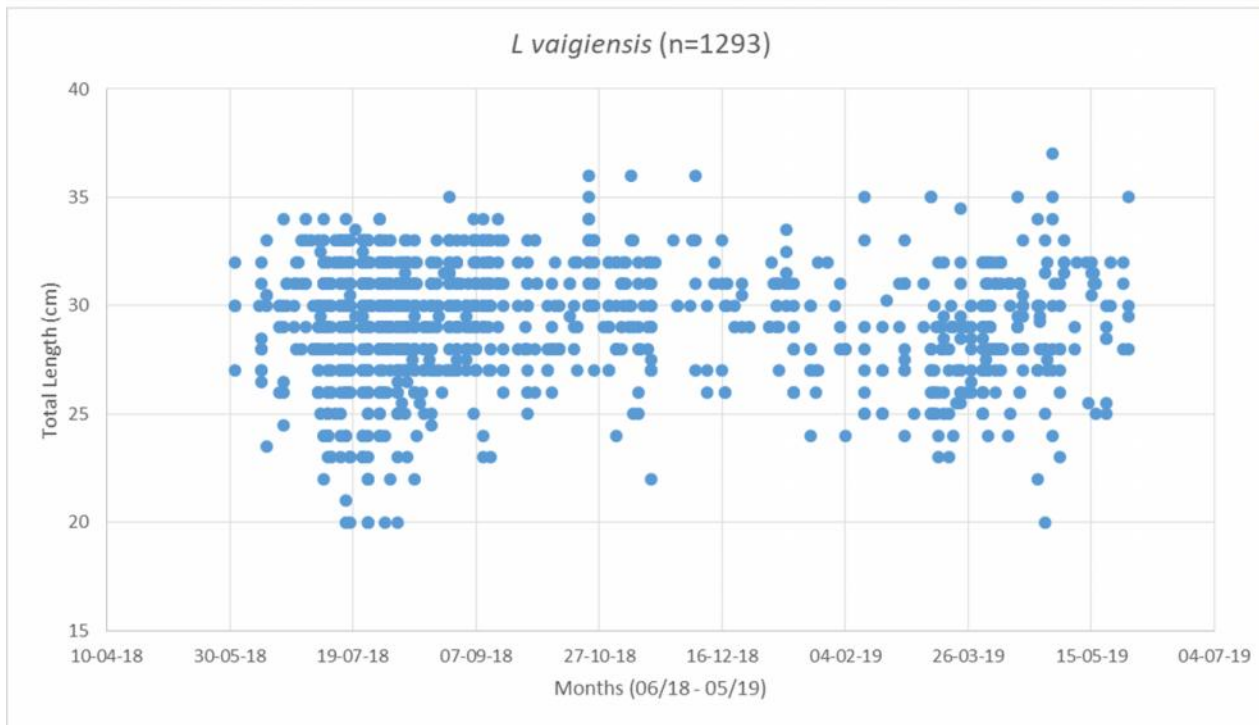


Lm: ? Range: 99-?cm TL
Max length: 200cm TL

Evidence of historical population collapse.
Propose release of this species.
Or 5 year moratorium & reassess



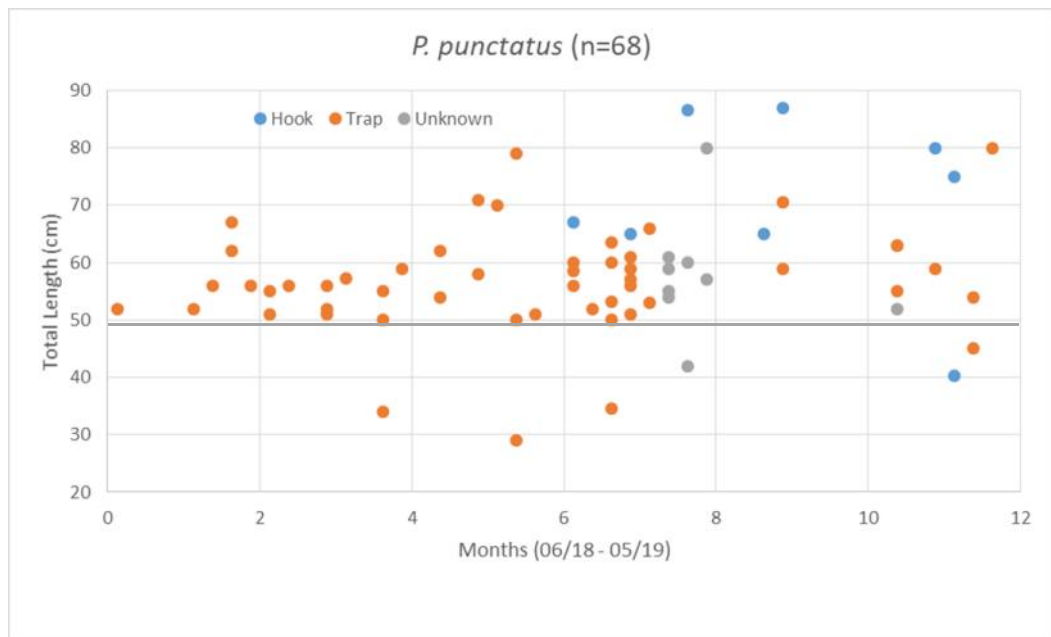
Marbled parrotfish (*L. vaigiensis*) - Marar



Lm ? Range ?
Max length 37cm TL.

Undergone known population collapse NE Mahé.
Catch demographic looks good. No suggested actions.
Environmental degradation needs to be addressed

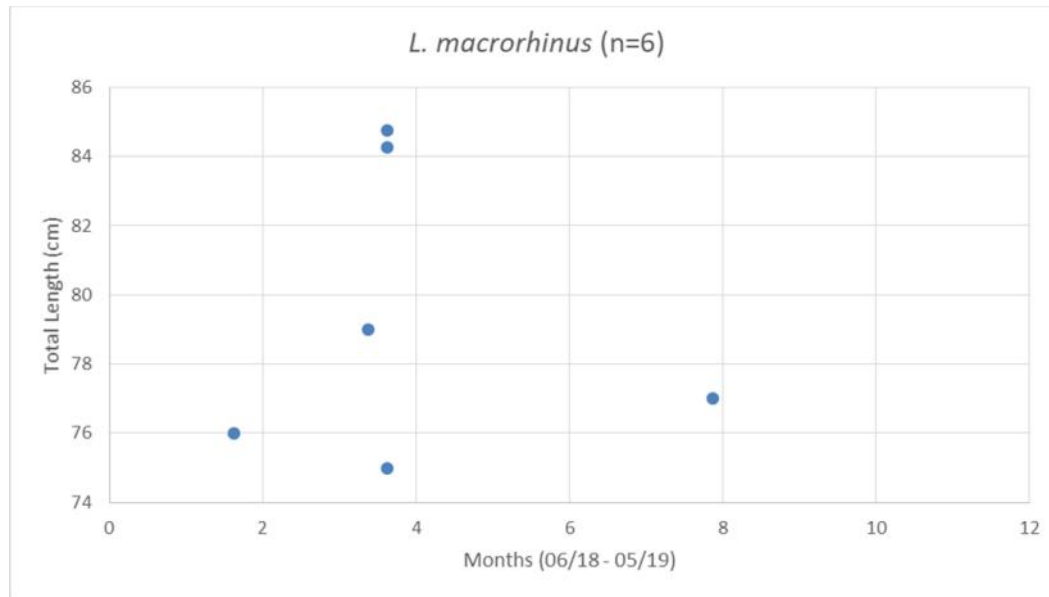
Marbled Coralgroupers (*P. punctatus*) – Babonn rouz



Lm ? Range ?.
Max Length 96cm TL

Catch demographic good. But data limited & strong anecdotal evidence of population decline. So propose minimum retention size of 50cm TL.

Sliteye shark (*Loxodon macrorhinus*) - Landonny



Male mature 62-66cm TL
Female Mature 75=80cm TL

Formerly abundant this species is now scarce.
It furthermore has negligible commercial value.
Propose release.



Questions/Discussion



Artisanal Ray Fishery



Aetobatus ocellatus (Kuhl, 1823)



Aetomylaeus vesperilio (Bleeker, 1852)



Mobula alfredi (Krefft, 1868)



Mobula kuhlii (Müller & Henle, 1841)



Mobula mobular (Bonnaterre, 1788)



Pastinachus sephen (Forsskål, 1775)



Pateobatis fai (Jordan & Seale, 1906)



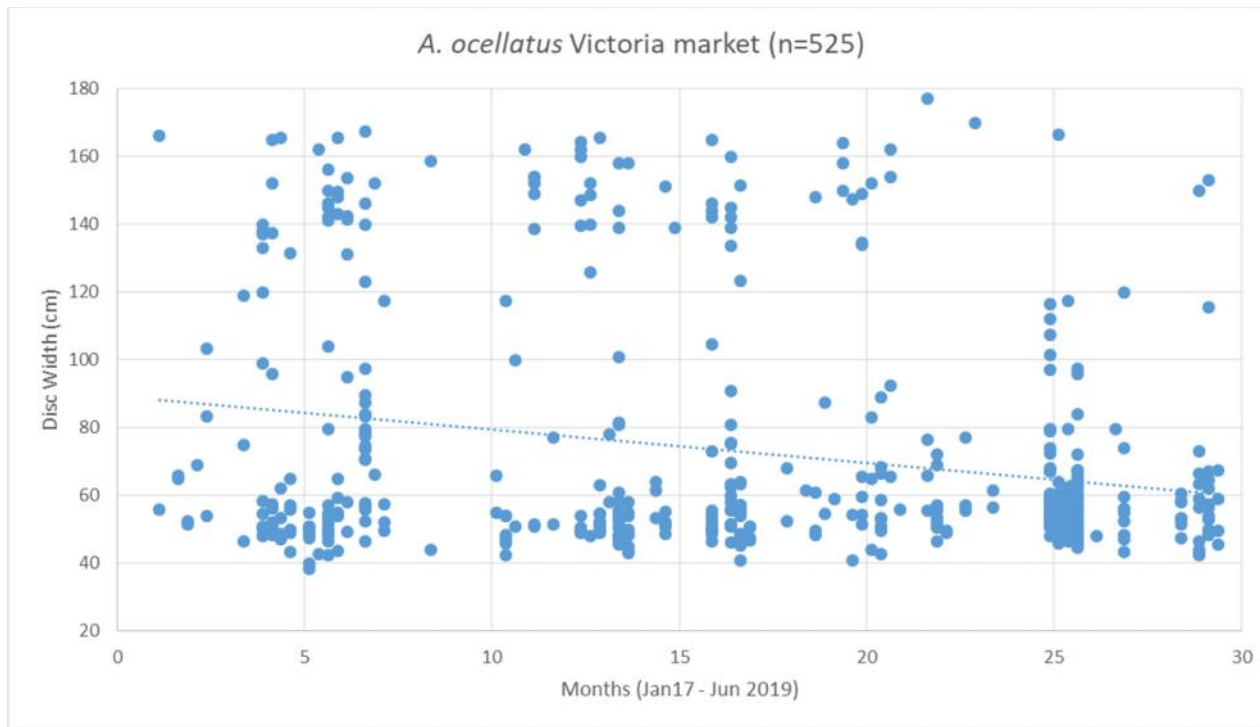
Taeniurops meyeri (Muller & Henle, 1841)



Urogymnus asperimus (Bloch & Schneider, 1801)

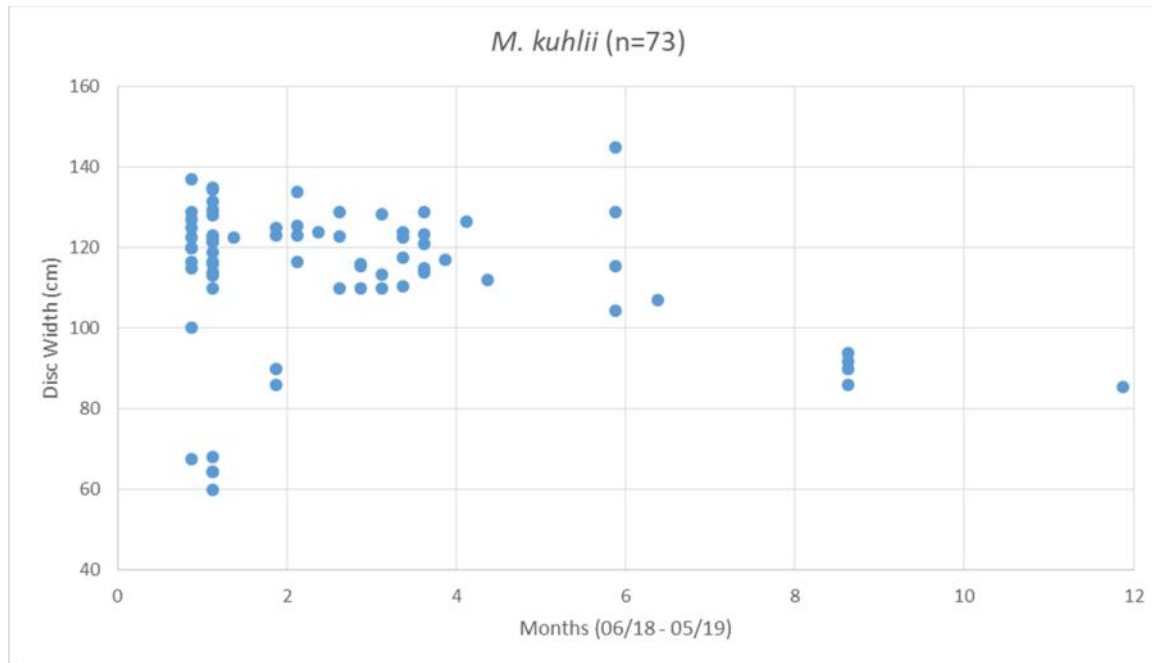
Ocellated eagle ray (*Aetobatus ocellatus*) – “Lare Sousouri” (IUCN VU)

Males mature: 100-130cm, females mature: 150-160cm

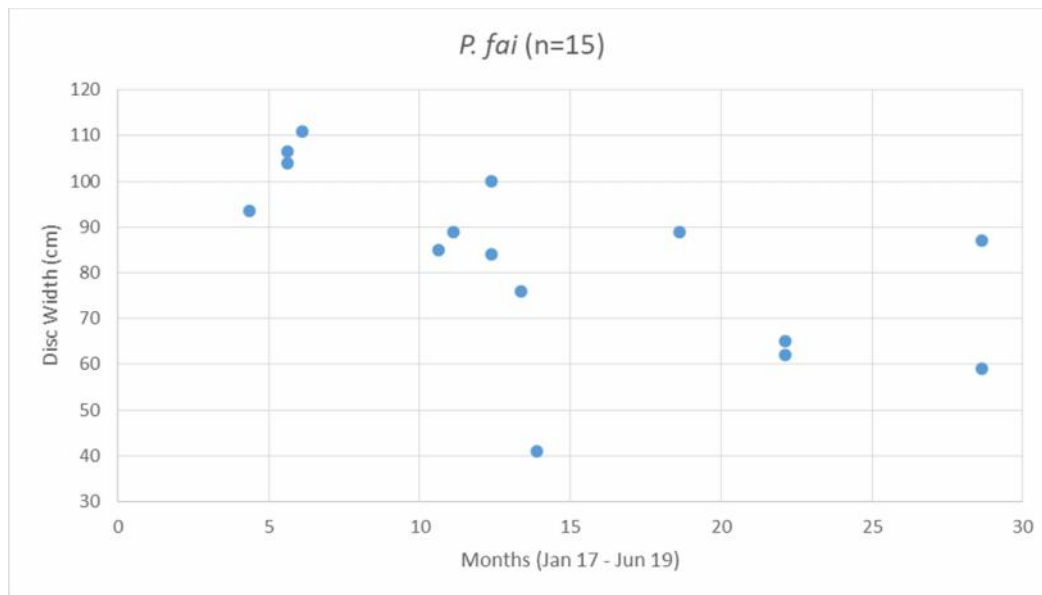


NO AGREEMENT

Shortfin devil ray (*Mobula kuhlii*) - Swarko



Pink whipray (*Pateobatis fai*) – “Lare Banan” (IUCN VU)



5 in survey period
Males mature approx. 115cm DW

Release ✓





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CMS Appendices				
Species	Common Name	Creole Name	App I	App II
<i>Carcharhinus falciformis</i>	Silky shark	Lapo Kler		2014
<i>Mobula (Manta) alfredi</i>	Reef manta ray	Dyab	2014	2014
<i>Mobula (Manta) birostris</i>	Manta ray	Dyab	2011	2011
<i>Mobula kuhlii</i>	Shortfin devil ray	Swarko	2014	2014
<i>Mobula (japanica) mobular</i>	Giant devil ray	Swarko	2014	2014
<i>Sphyrna lewini</i>	Scalloped hammerhead	Marto rouz		2014
<i>Sphyrna mokarran</i>	Great hammerhead	Marto blan		2014



Questions/Discussion





Thank you very much
for your Participation



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