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

Fishers’ Workshop Presentation
Care House
25th June 2019
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.
Area of survey: Mahe Plateau
<table>
<thead>
<tr>
<th></th>
<th>Species</th>
<th>Common name</th>
<th>Creole name</th>
<th>IUCN Red list Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aethaloperca rogaa</td>
<td>Redmouth grouper</td>
<td>Galfa</td>
<td>(DD) LC</td>
</tr>
<tr>
<td>2</td>
<td>Anyperodon leucogrammicus</td>
<td>Slender grouper</td>
<td>Seval Dibwa</td>
<td>LC</td>
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<tr>
<td>3</td>
<td>Cephalopholis argus</td>
<td>Peacock hind</td>
<td>Vyey Kwizinyen</td>
<td>LC</td>
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<tr>
<td>4</td>
<td>C. miniata</td>
<td>Coral hind</td>
<td>Vyey Zannannan</td>
<td>LC</td>
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<tr>
<td>5</td>
<td>Epinephelus coeruleopunctatus</td>
<td>White-spotted grouper</td>
<td>Vyey Labouu</td>
<td>LC</td>
</tr>
<tr>
<td>6</td>
<td>E. flavocaeruleus</td>
<td>Blue and yellow grouper</td>
<td>Vyey Plat</td>
<td>LC</td>
</tr>
<tr>
<td>7</td>
<td>E. fuscoguttatus</td>
<td>Brown marbled grouper</td>
<td>Vyey Goni</td>
<td>(NT) VU</td>
</tr>
<tr>
<td>8</td>
<td>E. longispinis</td>
<td>Longspine grouper</td>
<td>Vyey Prine</td>
<td>LC</td>
</tr>
<tr>
<td>9</td>
<td>E. macrospilos</td>
<td>Snubnose grouper</td>
<td>Vyey Prine</td>
<td>LC</td>
</tr>
<tr>
<td>10</td>
<td>E. multinotatus</td>
<td>White-blotched grouper</td>
<td>Vyey Sat</td>
<td>LC</td>
</tr>
<tr>
<td>11</td>
<td>E. ongus</td>
<td>White-streaked grouper</td>
<td>Vyey Avril</td>
<td>LC</td>
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<tr>
<td>12</td>
<td>E. polyplekadion</td>
<td>Camouflage grouper</td>
<td>Vyey Masata</td>
<td>(NT) VU</td>
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<tr>
<td>13</td>
<td>E. tukula</td>
<td>Potato bass</td>
<td>Tukula</td>
<td>LC</td>
</tr>
<tr>
<td>14</td>
<td>Leptoscarus vaigiensis</td>
<td>Marbled parrotfish</td>
<td>Marar</td>
<td>LC</td>
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<tr>
<td>15</td>
<td>Plectropomus punctatus</td>
<td>Marbled coralgrouper</td>
<td>Babonn Rouz</td>
<td>(DD) LC</td>
</tr>
<tr>
<td>16</td>
<td>Loxodon macrorhinus</td>
<td>Sliteye shark 5</td>
<td>Landonny</td>
<td>LC</td>
</tr>
</tbody>
</table>
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

**Range:** 42-76 cm TL

**Max Length:** 76 cm TL.

Catch demographic is bad... vast majority of catch is juvenile. Propose minimum size (40-45 cm 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. polyplekadion*) – 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 (\textit{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 Coralgrouper (*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)
Aetomyraeus vespertilio (Bleeker, 1852)
Mobula alfredi (Krefft, 1868)

Mobula kuhlii (Müller & Henle, 1841)
Mobula mobular (Bonnaterre, 1788)
Pastinachus sephen (Forsskål, 1775)

Pateobatis fai (Jordan & Seale, 1906)
Taeniura meyeni (Müller & Henle, 1841)
Urogymus asperrimus (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 ✓
<table>
<thead>
<tr>
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<th>Creole Name</th>
<th>App I</th>
<th>App II</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Carcharhinus falciformis</em></td>
<td>Silky shark</td>
<td>Lapo Kler</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td><em>Mobula (Manta) alfredi</em></td>
<td>Reef manta ray</td>
<td>Dyab</td>
<td>2014</td>
<td>2014</td>
</tr>
<tr>
<td><em>Mobula (Manta) birostris</em></td>
<td>Manta ray</td>
<td>Dyab</td>
<td>2011</td>
<td>2011</td>
</tr>
<tr>
<td><em>Mobula kuhlii</em></td>
<td>Shortfin devil ray</td>
<td>Swarko</td>
<td>2014</td>
<td>2014</td>
</tr>
<tr>
<td><em>Mobula (japanica) mobular</em></td>
<td>Giant devil ray</td>
<td>Swarko</td>
<td>2014</td>
<td>2014</td>
</tr>
<tr>
<td><em>Sphyra lewini</em></td>
<td>Scalloped hammerhead</td>
<td>Marto rouz</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td><em>Sphyra mokarran</em></td>
<td>Great hammerhead</td>
<td>Marto blan</td>
<td>2014</td>
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Questions/Discussion
Thank you very much for your Participation
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