

Freshwater Fish and Crustaceans Inventory 2024



Gaea Seychelles
With

Muséum National d'Histoire Naturelle



Developing a freshwater biodiversity information system for long-term conservation and management in the Seychelles

Inventory of freshwater fish and crustaceans in the Seychelles islands of Mahe and Praslin (Silhouette not possible to access)

- i. Main participants : Dr. Phillip Keith and Dr. Marion Menneson MHNP, Gaea Seychelles Members
- ii. Objectives:
 - 1) Inventory of 12 River out of 15 (3 Silhouette)
 - 2) Fill gaps in the taxonomy of Fish and crustaceans
 - 3) Determine the valid names, distribution and endemic status of each species present
 - 4) Update the current exhaustive list of the species present



Participants for Capacity Building

Gender	Age group	No
Female	20-30	6
	30-40	2
	40-50	4
	50-60	2
	>60	0
Male	20-30	5
	30-40	5
	40-50	1
	50-60	4
	>60	2

30 participants in 6 days of Training

Participants	Days Attended	Hrs. of Training
7	6	42
1	4	28
10	3	21
3	2	14
10	1	7

Full Organisational name	Acronym
Gaea Seychelles	GS
Muséum national d'Histoire naturelle	MNHN
Ministry of Agriculture, Climate Change and Environment	MACCE
Seychelles Parks and Garden Authority	SPGA
Seychelles Island Foundation	SIF
Terrestrial Restoration Action Society Seychelles	TRASS
Anse Boileau Watershed	ABW
Aqua-culture farmer	A
Seychelles Broadcasting Corporation	SBC
Fresh Focus	FF
University of Seychelles	UniSey

This freshwater fish and crustaceans inventory and training. In total we had 30 participants stemming from 11 organisations.

Summary of species inventory

- Out of 49 Freshwater fish and crustaceans species (33 fishes, 16 crustaceans) we have encountered 28 species (16 fishes and 12 crustaceans)
- Riviere Nouvelle Decouverte, Praslin had in total 21 species (being the most diverse at that moment) and Riviere Royale, Mahe had in total (7 species) being the least diverse.
- Please see Annex 2 and 3



Inventory Summary

Island	River	Lat	Long	Fish Species	Crustaceans Species	Total Number of Fishes	Encountered Fish species
Praslin	Nouvelle Decouverte	-4.33632	55.7224792	9	12	33	16
Praslin	Fond Boffay	-4.331342	55.720133	6	4		
Praslin	Pasquiere	-4.312905	55.721578	5	0		
Praslin	Petit Cours	-4.311679	55.728753	2	3		
Praslin	Salazie	-4.31843	55.744857	3	4		
Praslin	Kerlan	-4.30434421	55.6849383	5	5		
Mahe	Lilette	-4.658506	55.412672	6	3		
Mahe	Mare aux Cochon	-4.658506	55.412672	3	5		
Mahe	Royale	-4.304317	55.68512	3	3		
Mahe	Grand Anse	-4.675026	55.445469	3	5		
Mahe	Auban	-4.682212	55.455985	2	3		
Mahe	Caiman	-4.70195	55.47663	0	3		
Mahe	Grand Saint-Louis	-4.615178	55.416767	2	4		
						Total Number of Crustaceans	16
						Encountered Crustaceans species	12

Fish Species encountered	Crustaceans Species encountered
<i>A. bicolor</i>	<i>A. serrata</i>
<i>A. marmorata</i>	<i>C. natalensis</i>
<i>P. playrifairii</i> *	<i>M. idae</i>
<i>O. mossambicus</i> *I	<i>M. equidens</i>
<i>P. reticulata</i> *I	<i>M. lar</i>
<i>E. pellegrini</i> *OOI	<i>C. typus</i>
<i>K. rupestris</i>	<i>C. cf</i>
<i>P. multiradiatus</i> *	<i>serratirostris</i> *nsp
<i>O. porocephala</i> *OOI	<i>C. similis</i> *
<i>M. fuscus</i>	<i>P. concinnus</i>
<i>R. bikolanus</i>	<i>P. debilis</i>
<i>E. acanthopoma</i> B	<i>S. impressum</i>
	<i>P. plicatum</i>
* endemic	
*OOI endemic Western Indian Ocean	
*I introduced	



What Next

Inventory of freshwater fish and crustaceans in the Seychelles islands of Mahe and Praslin (Silhouette not possible to access)

- i. Multiple DNA samples were collected by Dr. Phillip Keith and Dr. Marion Menneson MHNP for further sequencing, analysis and description.
- ii. Objectives:
 - 1) To finish inventory on Silhouette Island. Only granted NBS permission on 11/03/2024 (3 Silhouette)//
 - 2) Clean COLLECT data and prepare for upload to GBIF



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