Cambodia biodiversity paper notes – Log rank abundance plots–August 10, 2022

I calculated log rank abundance (figs 1-3) and rank abundance (figs 4-6) at the system level (biomonitoring data), catch level and consumption level.
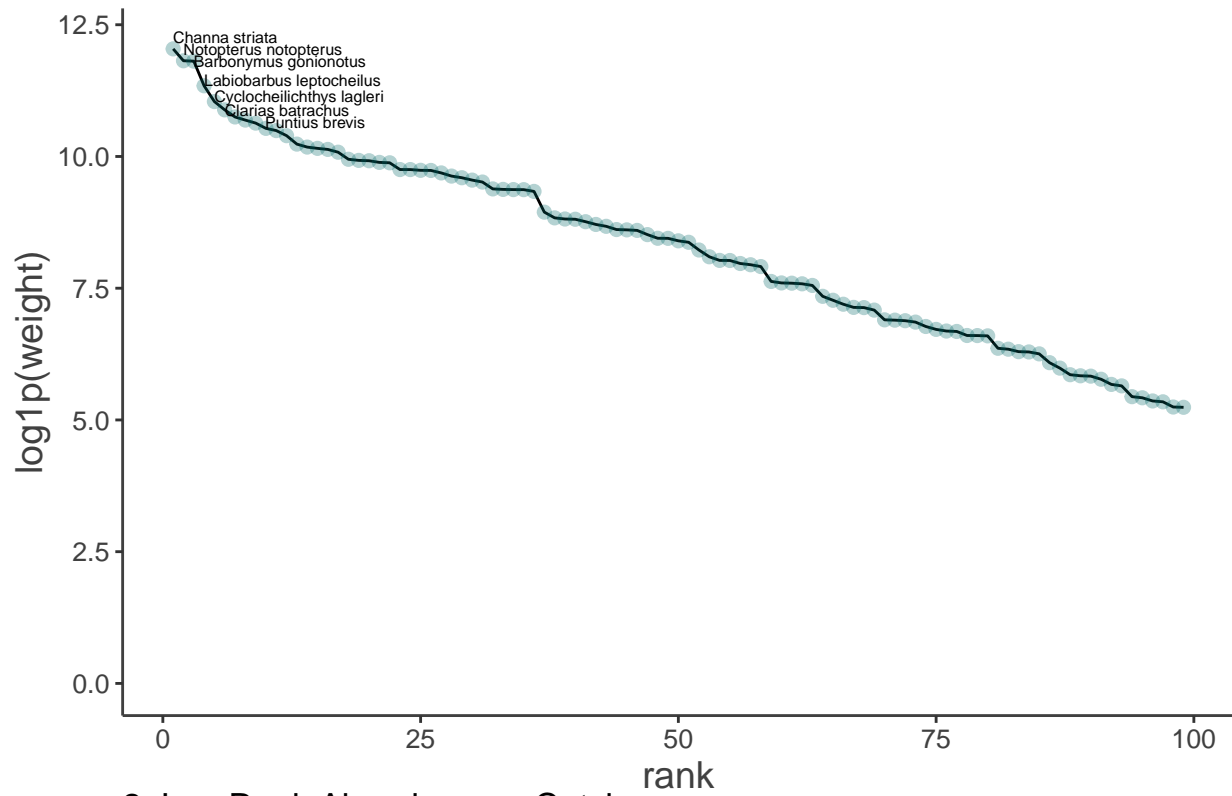
I plotted only the top 100 species to make it more readable. There are approx 120 species total.

I can do a Spearman rank correlation test to see how correlated (or not) the rank abundances are across biomonitoring, catch and consumption for all ~120 species. I would expect them to be pretty correlated, despite the differences we see below.
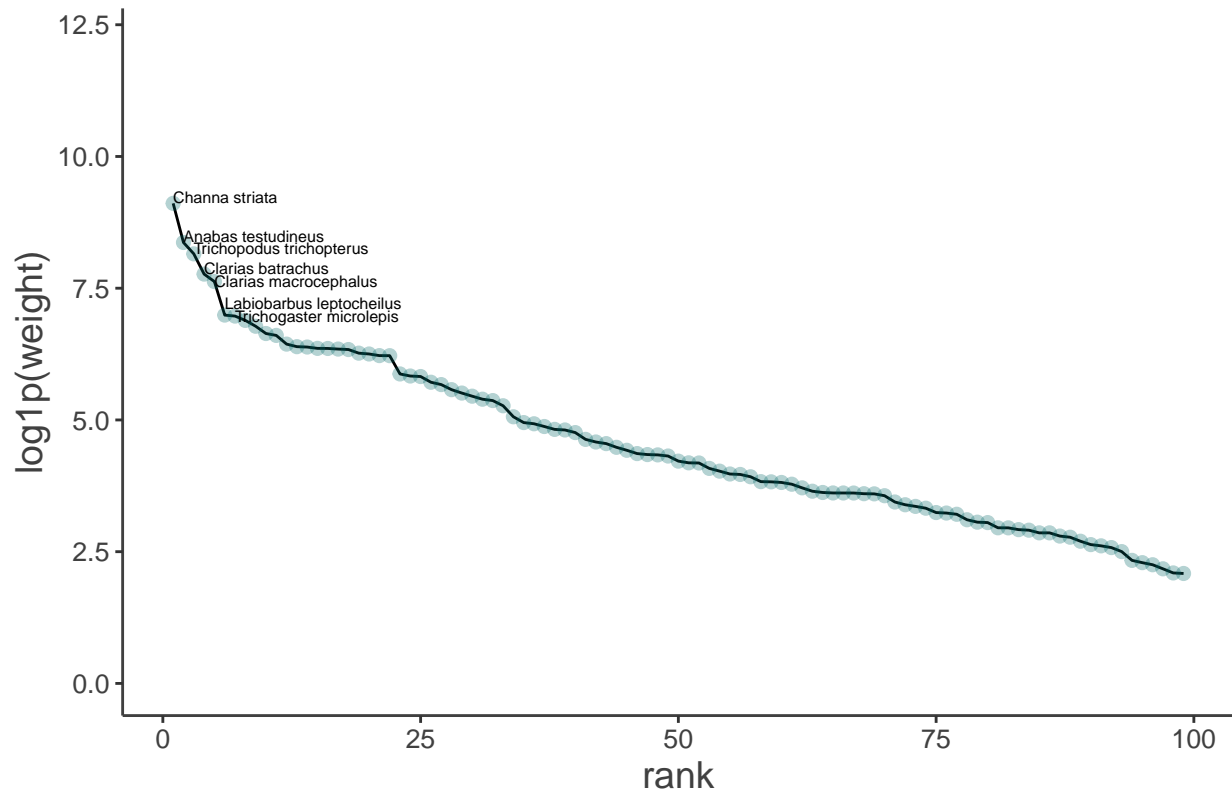
I labeled the top 7 species in each plot and they are summarized for Figures 1-3 in table below. The highlighted items are things that are only present in a single column (i.e. ranked highly in one category but not in the others).

rank	biomonitoring	catch	consumption
1	Channa striata	Channa striata	Channa striata
2	Notopterus notopterus		
2		Anabas testudineus	Anabas testudineus
3	Barbonymus gonionotus		
3		Trichopodus trichopterus	
3			Clarias batrachus
4	Labiobarbus leptochelius		
4		Clarias batrachus	
4			Clarias macrocephalus
5	Cyclocheilichthys lagleri		
5		Clarias macrocephalus	
5			Trichopodus trichopterus
6	Clarias batrachus		
6		Labiobarbus leptochelius	
6			Cyclocheilichthys lagleri
7	Puntius brevis		
7		Trichogaster microlepis	
7			Mystus albolineatus

1. Log Rank Abundance--Biomonitoring

Channa striata
Notopterus notopterus
Barbonymus gonionotus
Labiobarbus leptocheilus
Cyclocheilichthys lagleri
Clarias batrachus
Puntius brevis

2. Log Rank Abundance--Catch

Channa striata
Anabas testudineus
Trichopodus trichopterus
Clarias batrachus
Clarias macrocephalus
Labiobarbus leptocheilus
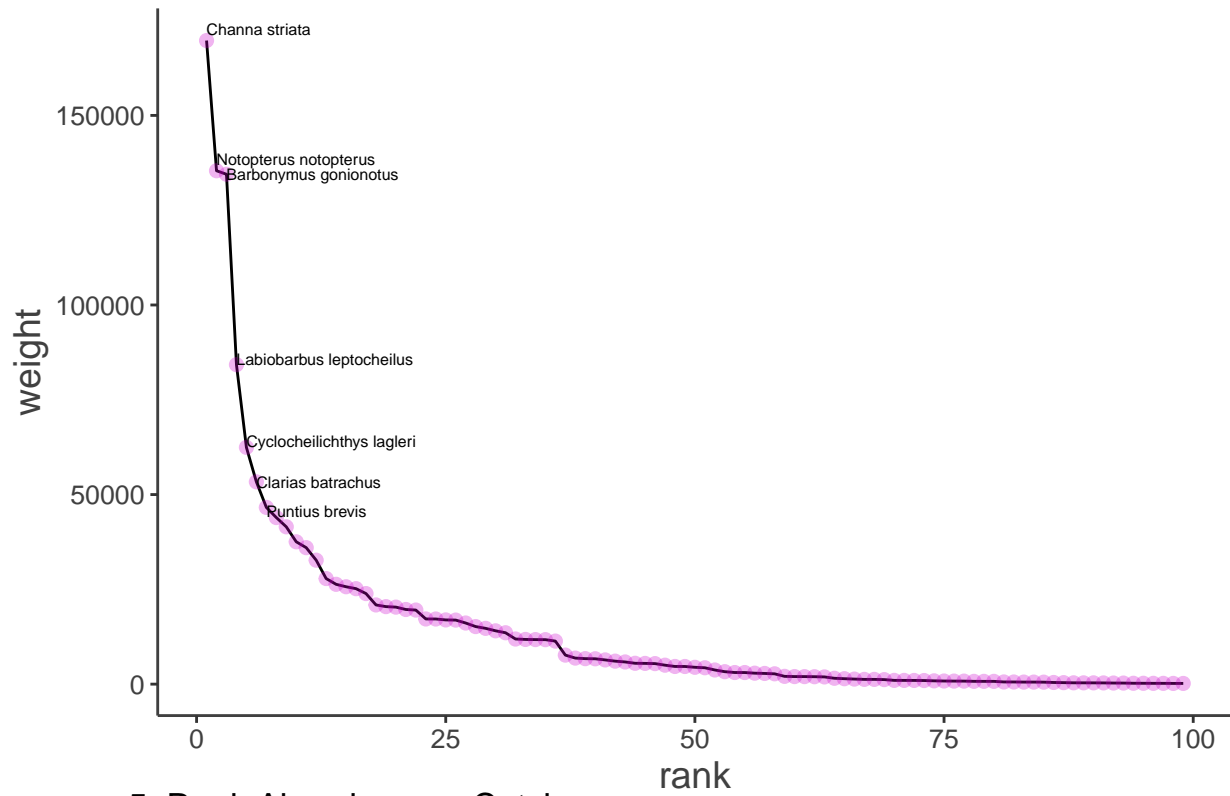Trichogaster microlepis

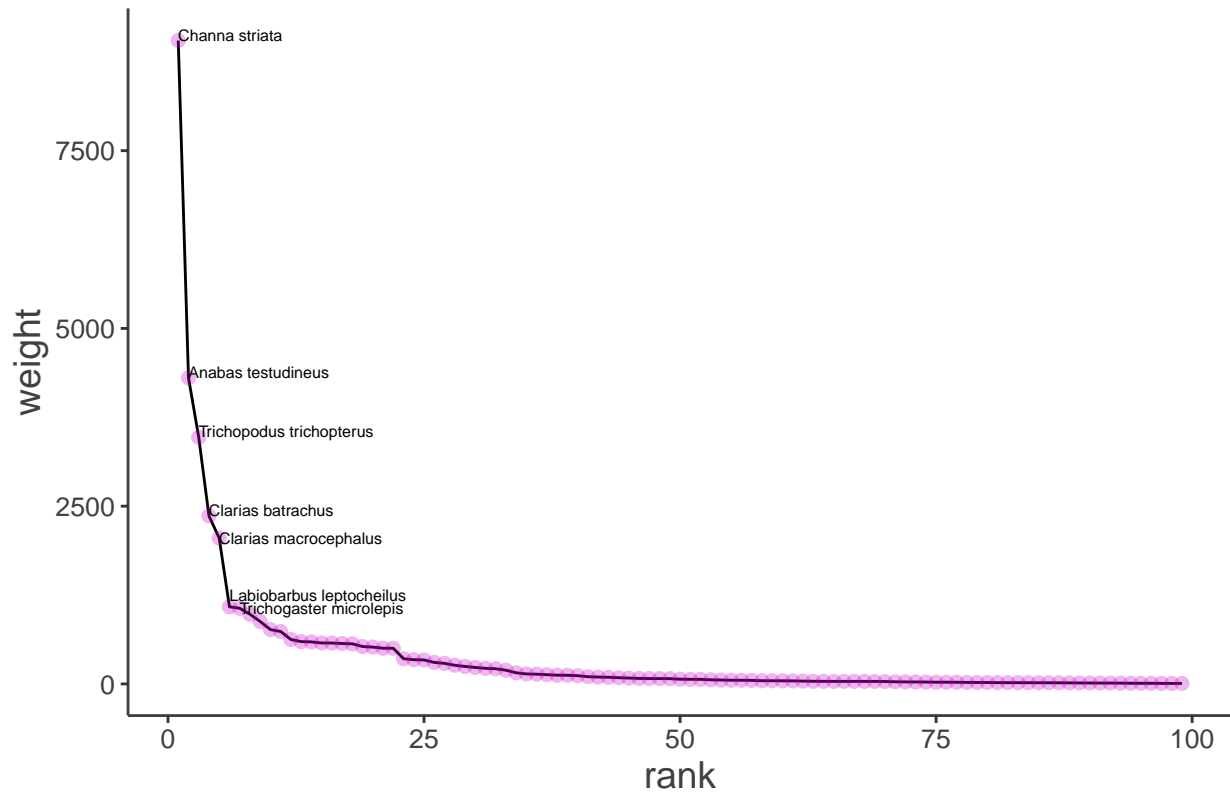## 3. Log Rank Abundance--Consumption
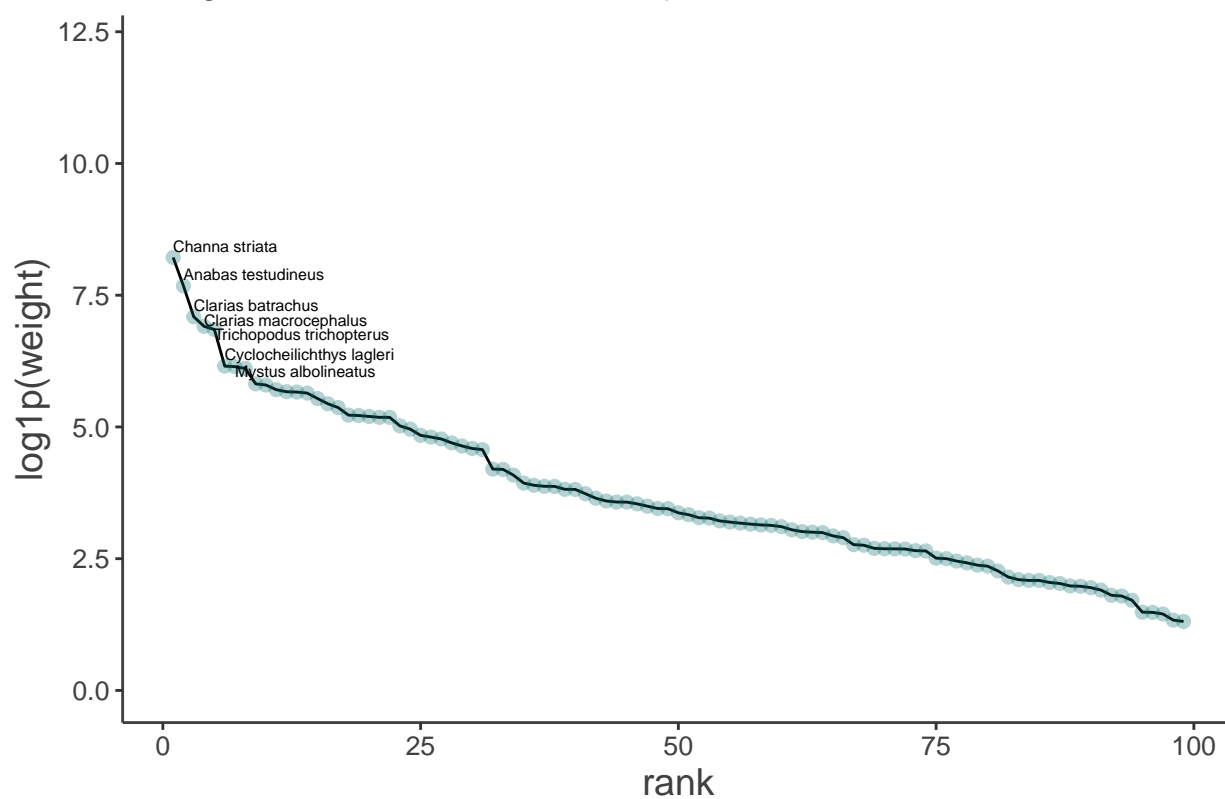
The figures below are not logged and the y-axes are scaled differently

4. Rank Abundance--Biomonitoring

5. Rank Abundance--Catch

6. Rank Abundance--Consumption