Table S1: List of mechanisms discussed in the main text that are proposed to explain the size-by-habitat patterns.

MECHANISMS MECHANISMS INFLUENCING TROPHIC LEVEL	BRIEF DESCRIPTOR
	For some mechanisms, additional evidence and case studies are made beyond those examples provided in the main text. This evidence is provided below the main description of each mechanism in grey and italicised.
1. FOOD WEB STRUCTURE	Dominance of plankton at the food-web base in marine-influenced habitats encourages additional trophic levels to form
	e.g. a decrease in the number of herbivore and detritivore individuals in creeks and rivers compared to the ocean in the Tortuguero region, Costa Rica, is consistent with how changes in the food web base influence the trophic structure of fish assemblages between marine and freshwater (Winemiller & Leslie, 1992).
2. SENSITIVITY TO HIGHER ENERGY DEMANDS IN WARM WATERS	Freshwater taxa appear more sensitive to higher energy demands of warm waters and feed at lower trophic levels relative to warm water marine taxa
3. ECOSYSTEM SIZE	Larger settings, typically more representative of marine habitats, encourage additional trophic levels to form
4. ECOSYSTEM STABILITY	Freshwater taxa are less able to respond to habitat fragmentation and temperature variability, reducing the number of trophic levels than can form
5. ECOSYSTEM AGE	Marine environments are typically older, fostering complexity that increases the number of trophic levels
6. TOPOLOGICAL VARIETY, PARTICULARLY DEPTH	Greater topological variation (particularly regarding depth) of marine-influenced settings encourages additional trophic levels
7. DEGREE OF OMNIVORY (DEFINED AS TROPHIC DIETARY VARIETY)	Higher degree of omnivory (when defined as the variety of trophic levels consumed) in marine-influenced settings sustains additional trophic levels
	Clades that act as case studies demonstrating this pattern are Scorpaeniformes, Siluriformes, and Ariidae (Sanchez-Hernandez & Amundsen 2018). The pattern also emerges within specific global regions and feeding strategies (Sanchez- Hernandez & Amundsen 2018).

In addition to evidence for individual mechanisms, there are literature case studies demonstrating higher trophic levels in marine settings relative to freshwater settings. This has been demonstrated within Osmeriformes, Scorpaeniformes, Siluriformes and Ariidae. The pattern also emerges within specific global regions and feeding strategies (Sanchez-Hernandez & Amundsen 2018).

The seven mechanisms above are predicted to frequently promote larger mean trophic level (and by association size) in various marine-influenced settings over freshwater. This alignment may help to explain the consistency of the size patterns, because even if mechanisms do not interact, the existence of several mechanisms means that, for a given clade, at least one mechanism should be active.

In other clades, several mechanisms may be active simultaneously, which may act to outnumber any selective forces that drive larger sizes in freshwater taxa. Nevertheless, it should be expected that a variety of habitat types could strongly exploit the above mechanisms under specific circumstances (i.e. not only that marine settings should always contain longer trophic chains than a given freshwater setting). For instance, a geologically old, deep lake may be expected to have developed more trophic levels than a young marine lagoon. Therefore, it is important to record all instances of agreement between size and trophic patterns across every individual habitat comparison when considering the role of trophic mechanisms.

Table S6 lists all comparisons where the trophic outcome is consistent with the size outcome. This information is summarised in Tables 1 and S5. Figure S6 shows how the phylogenetic effect size of size differences between two habitats corresponds to the phylogenetic effect size of trophic-level differences between those two habitats.

ALTERNATIVE MECHANISMS	
8. MIGRATORY LIFESTYLES	Numerous migrators in the euryhaline category. Benefits of large size for migration
	Likely these selective forces are decisive in instances of size-trophic mismatch where the habitat with the larger taxa also contains a notably higher percentage of migrators than the other habitat under comparison (indicated as "Migration strong" in Tables 1, S5, S6). Orders demonstrating this clearly include Galaxiiformes and Clupeiformes in euryhaline vs. freshwater comparisons; Centrarchiformes, Clupeiformes, Gobiiformes, I.S. Ovalentaria in euryhaline vs. freshwater-brackish comparisons; Clupeiformes and Mugiliformes in euryhaline vs. marine-brackish comparisons; Clupeiformes, Centrarchiformes and Osmeriformes in euryhaline vs. marine comparisons; Perciformes in freshwater vs. freshwater-brackish comparisons (Table S6, Figure S6).
9. LINEAGE AGE	Taxa may be larger due to the presence of evolutionary trends towards large size (e.g. Depéret's / Cope's Rule) or from the effects of ecosystem age on trophic level, noted above. It has also been suggested that in some instances, freshwater environments act as refugia that encourage the development of geologically old and large taxa known as 'living fossils'
	Figure 1b illustrates this 'large living fossil' idea well, showing how freshwater taxa for classic 'living fossil' clades such as Acipenseriformes and Lepisosteiformes are atypically large, even in comparison to many marine or euryhaline clades
	Table S6 lists all comparisons where the greater lineage age corresponds with larger size. This information is summarised in Tables 1 and S5.
10. CLADE SPECIES RICHNESS	Ecological limits on the numbers of very large species (occupying high trophic levels) that can be sustained (i.e. food webs contain few very high trophic level species relative to small and medium sized species). Thus, there should generally be more diversification opportunities at lower trophic levels than at high trophic levels, meaning it should be easier for a species poor clade to display a larger mean size relative to a species rich clade. (e.g. Tables 1, S5, S6).
	Table S6 lists all comparisons where lower species richness corresponds with larger size. This information is summarised in Tables 1 and S5.
11. HABITAT COMPLEXITY	Freshwater settings may demand greater manoeuvrability, and encourage smaller size as a result
12. STILL WATERS	Still waters, common in freshwater settings, may permit / encourage small size
	Weitzman and Vari 1988 highlight case studies in the form of South American Characiformes (Lebiasinidae, Characidae), Siluriformes (Trichomycteridae, Loricariidae, Callichthyiidae, Aspredinidae, Scoloplacidae, Pimelodidae), Cyprinodontiformes (Poeciliidae, Poeciliinae), Clupeiformes (Engraulidae) and Perciformes (Eleotrididae).
13. ANTI-PREDATION STRATEGIES	Larger size to evade or escape predators. Selection pressures potentially more prevalent in marine-influenced habitats where predatory taxa are more common for trophic reasons (e.g. plankton dominated food-web base).
14. PREDATION STRATEGIES	Benefits of large size to hunting. Expected to be more prevalent where higher trophic levels are encouraged, and where piscivorous lifestyles are more common due to a plankton dominated food-web base, as seen in numerous marine-influenced settings

Table S2: The % of clades (Tax3 scale) in which each pair of metrics, from the nine metrics compared between habitats, were aligned. For example, if comparing size and richness outcomes for euryhaline vs. freshwater comparisons (top row, red highlight), the % of alignments will equal the % of clades in which, relative to the total number of Tax3 clades in which the two habitat types could be compared, euryhaline taxa possessed either i) the smaller mean size and lower species richness, or ii) the larger mean size and higher species richness. Cumulatively, these two outcomes occurred in 18.2% of comparisons. I commonly refer to these as 'percentage alignments' of discrete outcomes. Clades whose metrics are aligned for a given habitat comparison fall within the white quadrants of Figure 4, while mismatched outcomes fall within grey quadrants. Only those 'percentage alignments' that were either consistently high or consistently low across multiple datasets are shown here; Appendix 1 contains percentages for all pairwise metric comparisons. Colour coding is applied to pairs of metrics that achieve high or low % alignments in more than one set of pairwise habitat comparisons. Table S6 takes these alignments and converts them into support for or against particular mechanisms. For example, depending on the mechanism, an alignment may deliver support (e.g. where trophic level and size outcomes agree), or a mismatch may deliver support (e.g. the clade with larger taxa should possess the lower species richness if ecological limits leave a strong signature on clades). Note: migratory %'s are often identical (i.e. in the many comparisons where no migratory species are present). This inflates the number of mismatches when comparing migratory %'s to other traits (hence commonly low alignment %'s in Appendix 1 in comparisons involving migratory %) because unless the other trait under comparison is also identical, it will be recorded as a mismatch. As such, these trait alignment %'s are omitted from this summary Table S2. Instead, Tables S4, S5 and S6 more clearly highlight the comparisons where migrators are present in sufficient numbers, and the significance of these outcomes regarding support for theories underpinning size patterns.

	highly positively asso	ciated outcomes			low percentage	of aligned outcomes
Euryhaline vs. Freshwater			Troph var rat. vs. X Size 63.6	X Phy Troph vs. X Bdur 27.3	Troph var rat. vs. richness 18.2	X Phy size vs. richness 18.2
Euryhaline vs. Marine					X Phy size vs. richness 27.3	
Euryhaline vs. FwBrackish					Troph var rat. vs. richness 25	
Freshwater vs. MarBrackish	X Troph vs. X Size 100				X Phy size vs. richness 25	X Bdur vs. richness 12.5
MarBrackish vs. Marine	X Phy Troph vs. X Phy size 100		X Troph vs. X Size 72.7		X Phy size vs. richness 27.3	
FwBrackish vs. MarBrackish			X Phy size vs. richness 77.8			
Freshwater vs. FwBrackish	X Troph vs. X Size 75	X Phy size vs. Size var rat. 75	Size var rat. vs. X Bdur 62.5	X Troph vs. richness 25	Troph var rat. vs. X Bdur 25	X Phy size vs. richness 12.5
Freshwater vs. Marine	Troph var rat. vs. richness 77.8	X Phy size vs. richness 77.8			Size var rat. vs. X Bdur 33.3	X Troph vs. X Bdur 11.1
FwBrackish vs. Marine	X Phy Troph vs. Troph var rat. 87.5	Troph var rat. vs. X Size 87.5	X Phy Troph vs. Size var rat. 75		X Troph vs. Troph var rat. 37.5	Troph var rat. vs. richness 25
Euryhaline vs. MarBrackish	X Phy Troph vs. X Phy size 88.9		X Troph vs. Size var rat. 77.8	Troph var rat. vs. X Bdur 44.4	Size var rat. vs. richness 33.3	X Troph vs. Troph var rat. 22.2

 \overline{X} Troph = Mean log10 trophic level

 \overline{X} Phy Troph = Mean log10 phylogenetic trophic level

 \overline{X} Size = Mean log10 body size

 \overline{X} Phy size = Mean log10 phylogenetic body size

 \overline{X} Bdur = Mean branch duration

Size var rat. = Observed size variance ratio relative to 1000 simulated variance ratios

Troph var rat. = Observed trophic level variance ratio relative to 1000 simulated variance ratios

richness = species richness

Table S3: Numbers and percentages of migratory taxa, from the list of migratory species recently defined and compiled in Burns & Bloom (2020), within each habitat-use type across the four datasets. Illustrates relatively high percentages of migratory taxa within the euryhaline category.

	Freshwater	Freshwater brackish	Marine	Marine brackish	Euryhaline
Sp. in habitat	4938	418	4335	741	456
No. of Migratory Sp.	187	57	70	35	230
% Migrators	3.8	13.6	1.6	4.7	50.4

Catalogue of Fishes 11k tree matched dataset

	Freshwater	Freshwater brackish	Marine	Marine brackish	Euryhaline
Sp. in habitat	4529	318	4236	611	490
No. of Migratory Sp.	182	42	82	26	210
% Migrators	4.02	13.21	1.94	4.26	42.86

FishBase 31k tree matched dataset

	Freshwater	Freshwater brackish	Marine	Marine brackish	Euryhaline
Sp. in habitat	12890	721	11597	1248	700
No. of Migratory Sp.	188	58	70	36	232
% Migrators	1.46	8.04	0.60	2.88	33.14

Catalogue of Fishes 31k tree matched dataset

	Freshwater	Freshwater brackish	Marine	Marine brackish	Euryhaline
Sp. in habitat	11392	566	11282	1052	760
No. of Migratory Sp.	182	43	82	26	211
% Migrators	1.60	7.60	0.73	2.47	27.76

Table S4: Numbers and percentages of migratory taxa in every order and habitat subdivision for the CoF 31k-treedataset. List of migratory species defined and compiled in Burns & Bloom (2020).

Order and Habitat	No. species in habitat	No. of migratory species	% migrators
Acanthuriformes_Marine	83	0	0
Acipenseriformes_Euryhaline	15	14	93.33333333
Acipenseriformes_Freshwater	4	4	100
Acipenseriformes_Freshwater brackish	7	6	85.71428571
Albuliformes_Marine	6	1	16.66666667
Albuliformes_Marine brackish	4	0	0
Alepocephaliformes_Marine	118	0	0
Amiiformes_Freshwater	1	1	100
Anabantiformes_Freshwater	210	2	0.952380952
Anabantiformes_Freshwater brackish	5	0	0
Anguilliformes_Euryhaline	31	14	45.16129032
Anguilliformes_Freshwater	4	0	0
Anguilliformes_Freshwater brackish	3	0	0
Anguilliformes_Marine	632	3	0.474683544
Anguilliformes_Marine brackish	26	0	0
Argentiniformes_Marine	72	0	0
Ateleopodiformes_Marine	7	0	0
Atheriniformes_Brackish	3	0	0
Atheriniformes_Euryhaline	21	0	0
Atheriniformes_Freshwater	142	0	0
Atheriniformes_Freshwater brackish	16	0	0
Atheriniformes_Marine	35	0	0
Atheriniformes_Marine brackish	27	0	0
Aulopiformes_Marine	207	1	0.483091787
Aulopiformes_Marine brackish	4	0	0
Batrachoidiformes_Euryhaline	4	0	0
Batrachoidiformes_Freshwater	5	0	0
Batrachoidiformes_Marine	51	0	0
Batrachoidiformes_Marine brackish	9	0	0
Beloniformes_Euryhaline	16	0	0
Beloniformes_Freshwater	65	0	0
Beloniformes_Freshwater brackish	19	0	0
Beloniformes_Marine	93	0	0
Beloniformes_Marine brackish	16	0	0
Beryciformes_Marine	135	0	0
Blenniiformes_Brackish	1	0	0
Blenniiformes_Euryhaline	7	0	0
Blenniiformes_Freshwater	10	0	0
Blenniiformes_Freshwater brackish	1	0	0
Blenniiformes_Marine	900	0	0
Blenniiformes_Marine brackish	27	0	0
Carangiformes_Euryhaline	9	2	22.22222222
Carangiformes_Marine	88	2	2.272727273
Carangiformes_Marine brackish	54	0	0
Centrarchiformes_Brackish	1	0	0
Centrarchiformes_Euryhaline	12	4	33.33333333

Contractiliomes, Freshwater brackish 14 1 7.142857143 Centrarchilormes, Marine brackish 117 1 0.854700855 Centrarchilormes, Marine brackish 3 0 0 Chaetodontiformes, Euryheline 114 0 0 Chaetodontiformes, Euryheline 144 0 0 Chaetodontiformes, Euryheline 1 0 0 Characiformes, Euryheline 1 0 0 Characiformes, Marine 1697 37 2.180318209 Characiformes, Euryheline 1 0 0 Characiformes, Euryheline 1 0 0 Cichilformes, Euryheline 1 0 0 Cichilformes, Euryheline 1 0 0 Cichilformes, Euryheline 1333 0 0 Cichilformes, Euryheline 10 0.943396226 0 Cilupeiformes, Euryheline 33 0 0 Clupeiformes, Freshwater brackish 105 4 0.038039626 Clupeiformes	Centrarchiformes_Freshwater	100	15	15
Centrarchilormes_Marine 117 1 0.884700855 Centrarchilormes_Marine 1 0 0 Chaetodontiformes_Marine 144 0 0 Chaetodontiformes_Marine 144 0 0 Chaetodontiformes_Freshwater 1697 37 2.180318209 Characiformes_Freshwater brackish 3 1 33.3333333 Characiformes_Freshwater brackish 3 0 0 Cichilformes_Brackish 1 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Brackish 5 0 0 Cichilformes_Freshwater 57 2 37.0867113 Clupeiformes_Freshwater brackish 33 0 0 Clupeiformes_Freshwater brackish 105 4 0.38085238 Cypriniformes_Freshwater brackish 108 13 12.03703704 Cyprindontiformes_Freshwater brackish 108 0 0 Cypr				
Centrarchilormes_Marine 3 0 0 Chaetodontiformes_Marine 1 0 0 Chaetodontiformes_Marine 144 0 0 Chaetodontiformes_Marine 144 0 0 Chaetodontiformes_Laynaline 1 0 0 Characiformes_Freshwater 1697 37 2.180318209 Characiformes_Freshwater 1 0 0 0 Cichiformes_Brackish 1 0 0 0 Cichiformes_Freshwater 1353 0 0 0 Cichiformes_Freshwater brackish 30 0 0 0 Cilupeiformes_Freshwater 57 2 3.50877193 0 0 Cilupeiformes_Marine 106 1 0.943396228 0	-		-	
Chaetodontiformes_Luryhaline 1 0 0 Chaetodontiformes_Marine brackish 14 0 0 Chaetodontiformes_Luryhaline 1 0 0 Characiformes_Freshwater 1697 37 2.160318209 Characiformes_Freshwater brackish 3 1 33.3333333 Characiformes_Marine 1 0 0 Cichilformes_Erackish 1 0 0 Cichilformes_Freshwater brackish 30 0 0 Cichilformes_Freshwater brackish 30 0 0 Cichilformes_Euryhaline 62 23 37.09677419 Clupeiformes_Euryhaline 62 250 0 Clupeiformes_Euryhaline 106 1 0.943396226 Clupeiformes_Marine 106 1 0.943396226 Clupeiformes_Euryhaline 13 12.037037 Clupeiformes_Euryhaline 13 0 0 Cyprinidontiformes_Ereshwater 2592 67 2.548476543 Cyprinidontiformes_Ereshwater brack	—			
Chaetodontiformes_Marine 144 0 0 Chaetodontiformes_Luryhaline 1 0 0 Characiformes_Freshwater 1697 37 2.180318209 Characiformes_Freshwater 1697 37 2.180318209 Characiformes_Freshwater 1 0 0 Chilomes_Euryhaline 1 0 0 Cichilformes_Euryhaline 1 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Freshwater 5 0 0 Cilupeiformes_Euryhaline 62 23 37.09677419 Cilupeiformes_Freshwater brackish 33 0 0 0 Cilupeiformes_Freshwater brackish 105 4 0.038095238 Cyprinitormes_Freshwater brackish 105 4 0.038095238 Cyprinitormes_Freshwater brackish 1 0 0 Cyprinodontiformes_Euryhaline 16 0 0 Cyprinodontiformes_Freshwater brackish 5 0 0		-	-	-
Chaetodontiformes_Laynaline 14 0 0 Characiformes_Loynaline 1 0 0 Characiformes_Freshwater 1697 37 2.180318209 Characiformes_Freshwater brackish 3 1 33.33333333 Characiformes_Marine 1 0 0 Cichilformes_Eurynaline 1 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Eurynaline 2 0 0 Cichilformes_Freshwater 5 0 0 Cichilformes_Ersenwater 57 2 3.50877193 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater brackish 1005 4 0.038095238 Cypriniformes_Freshwater brackish 105 4 0.038095238 Cypriniformes_Freshwater brackish 108 13 12.03703704 Cyprinodontiformes_Freshwater brackish 108 0 0 Cyprinodontiformes_Freshwater brackish 1 0 0	-	-		-
Characiformes_Euryhaline 1 0 0 Characiformes_Freshwater 1697 37 2.180318203 Characiformes_Freshwater brackish 3 1 33.3333333 Characiformes_Marine 1 0 0 Cichilformes_Erschish 1 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Freshwater brackish 30 0 0 Cichilformes_Freshwater brackish 5 0 0 Cilupeiformes_Euryhaline 62 23 37.09677419 Cilupeiformes_Freshwater 57 2 3.00877193 Cilupeiformes_Freshwater 57 2 3.00877193 Cilupeiformes_Marine 106 1 0.943396226 Cypriniofontiformes_Freshwater 2592 67 2.584876543 Cypriniodontiformes_Euryhaline 1 0 0 Cypriniodontiformes_Freshwater 1 0 0 Cyprinodontiformes_Euryhaline 1 0 0 Cyprinodontifo	_		-	-
Characiformes_Freshwater 1697 37 2.180318209 Characiformes_Freshwater brackish 3 1 3.33333333 Characiformes_Brackish 1 0 0 Cichifformes_Euryhaline 1 0 0 Cichifformes_Freshwater 1353 0 0 Cichifformes_Marine 2 0 0 Cichifformes_Brackish 5 0 0 Cichifformes_Ereshwater 57 2 3.50877193 Ciupeiformes_Freshwater brackish 106 1 0.943398226 Ciupeiformes_Marine 106 1 0.943398226 Ciupeiformes_Freshwater 2592 67 2.584876543 Cyprinidomitormes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Brackish 108 13 12.03703704 Cyprinodontiformes_Freshwater 26 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Ma	—		-	-
Characiformes_Freshwater brackish 3 1 33.33333333 Characiformes_Marine 1 0 0 Cichilformes_Euryhaline 1 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Euryhaline 12 0 0 Cicheformes_Euryhaline 62 23 37.09677419 Clupeiformes_Freshwater 57 2 350877193 Clupeiformes_Freshwater 57 2 3508877193 Clupeiformes_Marine 106 1 0.943396226 Clupeiformes_Marine brackish 105 4 0.038095238 Cypriniformes_Freshwater brackish 108 13 12.03703704 Cyprinodontiformes_Brackish 1 0 0 Cyprinodontiformes_Marine brackish 1 0 0 Cyprinodontiformes_Marine brackish 5 0 0 Cyprinodontiformes_Marine brackish 1 0 0 Cyprinodonti	•	1697	37	-
Characiformes_Brackish 1 0 0 Cichilformes_Ereshwater 1 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Brackish 5 0 0 Cichefformes_Ereshwater 57 2 3.50877193 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater 53 0 0 Clupeiformes_Hreshwater 106 1 0.943396226 Clupeiformes_Marine brackish 105 4 0.030895238 Cyprinodontiformes_Euryhaline 1 0 0 Cyprinodontiformes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Freshwater 16 0 0 Cyprinodontiformes_Marine brackish				
Cichilformes_Brackish 1 0 0 Cichilformes_Freshwater 1353 0 0 Cichilformes_Freshwater brackish 30 0 0 Cichilformes_Brackish 5 0 0 Cichilformes_Brackish 5 0 0 Ciupeiformes_Brackish 57 2 3.09877419 Ciupeiformes_Freshwater 57 2 3.09877419 Ciupeiformes_Freshwater brackish 106 1 0.943396226 Ciupeiformes_Marine 106 1 0.943396228 Cypriniformes_Freshwater brackish 105 4 0.038095238 Cypriniformes_Freshwater brackish 108 13 12.03703704 Cypriniformes_Freshwater brackish 108 13 12.03703704 Cyprinodontiformes_Brackish 16 0 0 Cyprinodontiformes_Freshwater brackish 63 0 0 Cyprinodontiformes_Marine brackish 5 0 0 0 Cyprinodontiformes_Marine brackish 5 0 0 <td>_</td> <td>-</td> <td></td> <td></td>	_	-		
Cichilformes_Ereshwater 1 0 0 Cichilformes_Freshwater 1353 0 0 0 Cichilformes_Freshwater 1353 0 0 0 Cichilformes_Freshwater 5 0 0 0 Clupeiformes_Ereshwater 57 2 3.50877193 0 Clupeiformes_Freshwater 57 2 3.50877193 0 0 Clupeiformes_Freshwater 57 2 3.50877193 0				
Cichilformes_Freshwater 1353 0 0 Cichilformes_Breshwater brackish 30 0 0 Cichilformes_Brackish 5 0 0 Clupeiformes_Euryhaline 62 23 37.09677419 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater brackish 33 0 0 Clupeiformes_Marine 106 1 0.443396226 Clupeiformes_Marine 105 4 0.0309238 Cypriniformes_Ereshwater 2592 67 2.584876543 Cypriniformes_Freshwater 2592 67 2.584876543 Cyprinidontiformes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Freshwater 869 0 0 Cyprinodontiformes_Freshwater 869 0 0 Cyprinodontiformes_Euryhaline 1 0 0 Cyprinodontiformes_Euryhaline 1 0 0 Elopiformes_Marine brackish 3 1 33.33333333333 <td< td=""><td>—</td><td></td><td>-</td><td>0</td></td<>	—		-	0
Cichilformes_Freshwater brackish 30 0 0 Clupeiformes_Brackish 5 0 0 Clupeiformes_Euryhaline 62 23 37.09677119 Clupeiformes_Freshwater brackish 33 0 0 Clupeiformes_Freshwater brackish 33 0 0 Clupeiformes_Marine 106 1 0.943396226 Clupeiformes_Marine 106 1 0.943396226 Clupeiformes_Marine 2592 67 2.584876543 Cypriniformes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Brackish 108 13 12.03703704 Cyprinodontiformes_Euryhaline 16 0 0 Cyprinodontiformes_Euryhaline 16 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Euryhaline 5 0 0 Cyprinodontiformes_Euryhaline 1 0 0 Elopiformes_Marine brackish 3 1 33333333333333 Elopifor	-			
Cichilformes_Marine 2 0 0 Clupeiformes_Erackish 5 0 0 Clupeiformes_Ereyhaline 62 23 37.09677419 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater brackish 106 1 .043336226 Clupeiformes_Marine brackish 105 4 .0038095238 Cypriniformes_Ereshwater 2592 67 .2584876543 Cypriniformes_Freshwater 2592 67 .2584876543 Cyprinidomtiformes_Ereshwater 108 13 12.03703704 Cyprinodontiformes_Ereshwater 869 0 0 Cyprinodontiformes_Ereshwater 869 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Elopiformes_Marine brackish 5 0 0 Elopiformes_Marine brackish 1 1 100 Escoiform	—		-	-
Clupeiformes_Brackish 5 0 0 Clupeiformes_Leryhaline 62 23 37.09677419 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater brackish 106 1 0.943396226 Clupeiformes_Marine brackish 105 4 0.038095238 Cypriniformes_Erryhaline 3 0 0 Cypriniformes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Erreshwater 2592 67 2.584876543 Cyprinodontiformes_Erreshwater 869 0 0 Cyprinodontiformes_Erreshwater 869 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 5 3 66 0 0 Elopiformes_Marine 11 0 0 0 0 Elopiformes_Marine 11 1 100 0 0 0 Elopiformes_M				
Clupeiformes_Euryhaline 62 23 37.09677419 Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater brackish 33 0 0 Clupeiformes_Marine 106 1 0.943396226 Clupeiformes_Marine brackish 105 4 0.03095238 Cypriniformes_Ereshwater 22592 67 2.584876543 Cypriniformes_Freshwater 22592 67 2.584876543 Cyprinidorntiformes_Freshwater 22592 67 2.584876543 Cyprinodontiformes_Freshwater 2690 0 0 Cyprinodontiformes_Ereshwater 869 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Marine brackish 1 1 100 Gadiformes_Freshwater			-	-
Clupeiformes_Freshwater 57 2 3.50877193 Clupeiformes_Freshwater brackish 33 0 0 Clupeiformes_Marine 106 1 0.943396226 Clupeiformes_Marine brackish 105 4 0.038095238 Cypriniformes_Euryhaline 3 0 0 Cypriniformes_Freshwater 2592 67 2.584876543 Cyprinidormes_Freshwater 108 13 12.03703704 Cyprinodontiformes_Brackish 1 0 0 Cyprinodontiformes_Freshwater 869 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 5 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Marine brackish 3 1 33.3333333 Ephippiformes_Euryhaline 1 0 0 Elopiformes_Marine brackish 1 1 100 Gadiformes_Ereshwater brackish 1 <td>·</td> <td></td> <td>-</td> <td></td>	·		-	
Clupeiformes_Freshwater brackish 33 0 0 Clupeiformes_Marine 106 1 0.943396226 Clupeiformes_Marine brackish 105 4 0.038095238 Cypriniformes_Euryhaline 3 0 0 Cypriniformes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Freshwater 108 13 12.03703704 Cyprinodontiformes_Erackish 1 0 0 Cyprinodontiformes_Ereshwater 869 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Euryhaline 1 0 0 Elopiformes_Euryhaline 1 100 0 Esociformes_Freshwater brackish 1 <td></td> <td>-</td> <td>-</td> <td></td>		-	-	
Clupeiformes_Marine 106 1 0.943396226 Clupeiformes_Marine brackish 105 4 0.038095238 Cypriniformes_Euryhaline 3 0 0 Cypriniformes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Brackish 108 13 12.03703704 Cyprinodontiformes_Euryhaline 16 0 0 Cyprinodontiformes_Freshwater 869 0 0 Cyprinodontiformes_Freshwater 869 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Euryhaline 1 1 100 Esociformes_Freshwater 9 1 11.11111111 Esociformes_Euryhaline 1 100	•			
Clupeiformes_Marine brackish10540.038095238Cypriniformes_Euryhaline300Cypriniformes_Freshwater2592672.584876543Cyprinodontiformes_Brackish1081312.03703704Cyprinodontiformes_Euryhaline1600Cyprinodontiformes_Freshwater86900Cyprinodontiformes_Freshwater6300Cyprinodontiformes_Marine100Cyprinodontiformes_Marine100Cyprinodontiformes_Marine100Cyprinodontiformes_Marine100Cyprinodontiformes_Marine100Elopiformes_Marine100Elopiformes_Marine1100Elopiformes_Marine1100Elopiformes_Marine1100Elopiformes_Marine1100Elopiformes_Marine brackish600Elopiformes_Marine1100Elopiformes_Marine111000Esociformes_Freshwater9111.11111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Ereshwater brackish111100Gadiformes_Ereshwater brackish111100Gadiformes_Ereshwater brackish11218.18181818Galakiformes_Ereshwater3400 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Cypriniformes_Euryhaline 3 0 0 Cypriniformes_Freshwater 2592 67 2.584876543 Cyprinodontiformes_Freshwater 108 13 12.03703704 Cyprinodontiformes_Brackish 1 0 0 Cyprinodontiformes_Euryhaline 16 0 0 Cyprinodontiformes_Freshwater 869 0 0 Cyprinodontiformes_Freshwater 63 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine brackish 5 0 0 Cyprinodontiformes_Marine brackish 5 0 0 Elopiformes_Marine brackish 1 0 0 Elopiformes_Marine brackish 1 0 0 Elopiformes_Marine brackish 11 0 0 Ephippiformes_Marine brackish 6 0 0 Ephippiformes_Marine brackish 1 1 100 Gadiformes_Freshwater brackish 1 1 100 Gadiformes_Freshwater brackish	•			
Cypriniformes_Freshwater2592672.584876543Cyprinodontiformes_Freshwater1081312.03703704Cyprinodontiformes_Brackish1081312.03703704Cyprinodontiformes_Euryhaline1600Cyprinodontiformes_Freshwater86900Cyprinodontiformes_Freshwater6300Cyprinodontiformes_Marine100Cyprinodontiformes_Marine brackish500Cyprinodontiformes_Marine brackish500Elopiformes_Marine brackish500Elopiformes_Marine brackish100Elopiformes_Marine brackish100Elopiformes_Marine brackish100Elopiformes_Marine brackish100Elopiformes_Marine brackish600Ephippiformes_Marine1100Ephippiformes_Marine300Gadiformes_Freshwater9111.1111111111111111111111111111111111	·			
Cypriniformes_Freshwater brackish 108 13 12.03703704 Cyprinodontiformes_Brackish 1 0 0 Cyprinodontiformes_Ereshwater 869 0 0 Cyprinodontiformes_Freshwater brackish 63 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine brackish 5 0 0 Cyprinodontiformes_Marine brackish 5 0 0 Cyprinodontiformes_Marine brackish 3 1 33.3333333 Elopiformes_Marine brackish 3 1 33.3333333 Ephippiformes_Marine brackish 6 0 0 Ephippiformes_Freshwater 9 1 11.1111111 Esociformes_Freshwater brackish 1 1 100 Gadiformes_Euryhaline 3 0 0 0 Gadiformes_Freshwater brackish 1 1 100 0 Gadiformes_Freshwater brackish 1 1 100 0 Gadiformes_Marine brackish 11 <		-	-	
Cyprinodontiformes_Brackish100Cyprinodontiformes_Luryhaline1600Cyprinodontiformes_Freshwater86900Cyprinodontiformes_Freshwater brackish6300Cyprinodontiformes_Marine100Cyprinodontiformes_Marine brackish500Cyprinodontiformes_Marine brackish5360Elopiformes_Marine brackish3133.3333333Elopiformes_Marine brackish3133.3333333Ephippiformes_Marine brackish6600Elopiformes_Marine brackish6600Ephippiformes_Marine brackish6600Ephippiformes_Freshwater9111.11111111Esociformes_Freshwater brackish11100Gadiformes_Freshwater brackish11100Gadiformes_Freshwater brackish11218.1818181Galakiformes_Euryhaline11981.81818182Galakiformes_Freshwater brackish11218.1818181Galakiformes_Euryhaline1190Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine brackish15942.51572327Gobiiformes_Marine brackish15942.51572327Gobiiformes_Marine brackish15942.				
Cyprinodontiformes_Euryhaline 16 0 0 Cyprinodontiformes_Freshwater 869 0 0 Cyprinodontiformes_Freshwater brackish 63 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine brackish 5 0 0 Cyprinodontiformes_Marine brackish 5 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Marine brackish 3 1 33.3333333 Elopiformes_Marine brackish 6 0 0 Ephippiformes_Marine brackish 6 0 0 Ephippiformes_Marine brackish 6 0 0 Esociformes_Freshwater 9 1 11.1111111 Esociformes_Freshwater brackish 1 1 100 Gadiformes_Marine 463 12 2.591792657 Gadiformes_Marine brackish 11 2 18.181818 Gadiformes_Marine brackish 11 100 0 Gadiformes_Freshwater brackis				
Cyprinodontiformes_Freshwater 869 0 0 Cyprinodontiformes_Freshwater brackish 63 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine 1 0 0 Cyprinodontiformes_Marine brackish 5 0 0 Elopiformes_Marine 1 0 0 Elopiformes_Marine brackish 3 1 33.3333333 Ephippiformes_Marine brackish 6 0 0 Ephippiformes_Marine 11 0 0 Ephippiformes_Marine brackish 6 0 0 Esociformes_Freshwater 9 1 11.1111111 Esociformes_Freshwater brackish 1 1 100 Gadiformes_Marine 463 12 2.591792657 Gadiformes_Marine 463 12 2.591792657 Gadiformes_Marine brackish 11 100 0 Gadiformes_Marine 463 12 2.591792657 Gadiformes_Marine brackish 11 <td></td> <td>-</td> <td>-</td> <td>-</td>		-	-	-
Cyprinodontiformes_Freshwater brackish6300Cyprinodontiformes_Marine100Cyprinodontiformes_Marine brackish500Elopiformes_Euryhaline5360Elopiformes_Marine100Elopiformes_Marine brackish3133.333333Ephippiformes_Euryhaline100Ephippiformes_Euryhaline100Ephippiformes_Marine brackish600Ephippiformes_Marine brackish600Esociformes_Freshwater9111.11111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish111100Gadiformes_Freshwater brackish111100Gadiformes_Freshwater brackish11218.1818181Galaxilformes_Marine brackish11981.81818182Galaxilformes_Euryhaline1190Gobilformes_Euryhaline2346427.35042735Gobilformes_Freshwater23620.847457627Gobilformes_Freshwater brackish10665.660377358Gobilformes_Marine brackish15942.51572327Gobilformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				-
Cyprinodontiformes_Marine100Cyprinodontiformes_Marine brackish500Elopiformes_Euryhaline5360Elopiformes_Marine100Elopiformes_Marine brackish3133.3333333Ephippiformes_Euryhaline100Ephippiformes_Marine1100Ephippiformes_Marine600Ephippiformes_Marine brackish600Esociformes_Freshwater9111.11111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Freshwater brackish11218.1818181Gadiformes_Marine brackish11218.1818181Gadiformes_Marine brackish11218.1818181Galaxiiformes_Euryhaline3400Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine brackish15942.51572327Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150			-	-
Cyprinodontiformes_Marine brackish500Elopiformes_Luryhaline5360Elopiformes_Marine100Elopiformes_Marine brackish3133.3333333Ephippiformes_Euryhaline100Ephippiformes_Marine1100Ephippiformes_Marine brackish600Ephippiformes_Marine brackish600Ephippiformes_Marine brackish11100Gadiformes_Freshwater9111.1111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Marine brackish11218.18181818Galaiformes_Marine brackish11218.18181818Galaiformes_Marine brackish11981.8181818Galaxiiformes_Freshwater3400Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine brackish15942.51572327Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Elopiformes_Euryhaline5360Elopiformes_Marine100Elopiformes_Marine brackish3133.3333333Ephippiformes_Euryhaline100Ephippiformes_Marine1100Ephippiformes_Marine brackish600Ephippiformes_Marine brackish600Ephippiformes_Marine brackish600Esociformes_Freshwater9111.11111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Marine brackish11100Gadiformes_Marine463122.591792657Gadiformes_Marine brackish11218.18181818Galaxiiformes_Marine brackish11218.18181818Galaxiiformes_Euryhaline3400Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine brackish10665.660377358Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline15942.51572327Gonorynchiformes_Euryhaline2150				
Elopiformes_Marine100Elopiformes_Marine brackish3133.33333333Ephippiformes_Marine brackish100Ephippiformes_Marine1100Ephippiformes_Marine brackish600Ephippiformes_Marine brackish600Esociformes_Freshwater9111.11111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Marine brackish11100Gadiformes_Freshwater brackish1218.18181818Gadiformes_Marine brackish11218.18181818Galaxiiformes_Marine brackish11218.18181818Galaxiiformes_Freshwater3400Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine brackish15942.51572327Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Elopiformes_Marine brackish3133.33333333Ephippiformes_Euryhaline100Ephippiformes_Marine1100Ephippiformes_Marine brackish600Esociformes_Freshwater9111.11111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Marine463122.591792657Gadiformes_Marine brackish11218.1818181Galaxiiformes_Marine brackish11981.81818182Galaxiiformes_Euryhaline1190Gobiiformes_Freshwater3400Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Ephippiformes_Euryhaline100Ephippiformes_Marine1100Ephippiformes_Marine brackish600Esociformes_Freshwater9111.11111111Esociformes_Freshwater brackish11100Gadiformes_Freshwater brackish11100Gadiformes_Freshwater brackish11100Gadiformes_Freshwater brackish11100Gadiformes_Marine463122.591792657Gadiformes_Marine brackish11218.18181818Galaxiiformes_Marine brackish11218.18181818Galaxiiformes_Freshwater3400Gobiiformes_Brackish2600Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10663.660377358Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150	•			
Ephippiformes_Marine1100Ephippiformes_Marine brackish600Esociformes_Freshwater9111.1111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Freshwater brackish11100Gadiformes_Marine463122.591792657Gadiformes_Marine brackish11218.1818181Galaxiiformes_Marine brackish11218.18181818Galaxiiformes_Euryhaline11981.81818182Galaxiiformes_Euryhaline1190Gobiiformes_Brackish2600Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine brackish10642.51572327Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150	•			
Ephippiformes_Marine brackish600Esociformes_Freshwater9111.1111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Freshwater brackish11100Gadiformes_Marine463122.591792657Gadiformes_Marine brackish11218.1818181Galaxiiformes_Marine brackish11981.81818182Galaxiiformes_Euryhaline11981.81818182Galaxiiformes_Freshwater3400Gobiiformes_Ereshwater2346427.35042735Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10642.51572327Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Esociformes_Freshwater9111.1111111Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Marine463122.591792657Gadiformes_Marine brackish11218.1818181Galaxiiformes_Marine brackish11218.18181818Galaxiiformes_Freshwater3400Gobiiformes_Brackish2600Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Freshwater brackish10642.51572327Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150			-	-
Esociformes_Freshwater brackish11100Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Marine463122.591792657Gadiformes_Marine brackish11218.1818181Galaxiiformes_Euryhaline11981.81818182Galaxiiformes_Freshwater3400Gobiiformes_Brackish2600Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150			-	-
Gadiformes_Euryhaline300Gadiformes_Freshwater brackish11100Gadiformes_Marine463122.591792657Gadiformes_Marine brackish11218.1818181Galaxiiformes_Marine brackish11981.81818182Galaxiiformes_Euryhaline11981.81818182Galaxiiformes_Freshwater3400Gobiiformes_Brackish2600Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Gadiformes_Freshwater brackish 1 1 100 Gadiformes_Marine 463 12 2.591792657 Gadiformes_Marine brackish 11 2 18.1818181 Galaxiiformes_Euryhaline 11 9 81.81818182 Galaxiiformes_Freshwater 34 0 0 Gobiiformes_Brackish 26 0 0 Gobiiformes_Euryhaline 234 64 27.35042735 Gobiiformes_Freshwater 236 2 0.847457627 Gobiiformes_Freshwater brackish 106 6 5.660377358 Gobiiformes_Marine brackish 159 4 2.51572327 Gonorynchiformes_Euryhaline 2 1 50	_			
Gadiformes_Marine 463 12 2.591792657 Gadiformes_Marine brackish 11 2 18.1818181 Galaxiiformes_Euryhaline 11 9 81.818182 Galaxiiformes_Freshwater 34 0 0 Gobiiformes_Brackish 26 0 0 Gobiiformes_Euryhaline 234 64 27.35042735 Gobiiformes_Freshwater 236 2 0.847457627 Gobiiformes_Freshwater brackish 106 6 5.660377358 Gobiiformes_Marine brackish 159 4 2.51572327 Gonorynchiformes_Euryhaline 2 1 50	-			-
Gadiformes_Marine brackish11218.18181818Galaxiiformes_Euryhaline11981.81818182Galaxiiformes_Freshwater3400Gobiiformes_Brackish2600Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150	_		-	
Galaxiiformes_Euryhaline11981.81818182Galaxiiformes_Freshwater3400Gobiiformes_Brackish2600Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Galaxiiformes_Freshwater3400Gobiiformes_Brackish2600Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Gobiiformes_Brackish2600Gobiiformes_Euryhaline2346427.35042735Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Gobiiformes_Euryhaline 234 64 27.35042735 Gobiiformes_Freshwater 236 2 0.847457627 Gobiiformes_Freshwater brackish 106 6 5.660377358 Gobiiformes_Marine 757 1 0.132100396 Gobiiformes_Marine brackish 159 4 2.51572327 Gonorynchiformes_Euryhaline 2 1 50	_			
Gobiiformes_Freshwater23620.847457627Gobiiformes_Freshwater brackish10665.660377358Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150			-	-
Gobiiformes_Freshwater brackish 106 6 5.660377358 Gobiiformes_Marine 757 1 0.132100396 Gobiiformes_Marine brackish 159 4 2.51572327 Gonorynchiformes_Euryhaline 2 1 50	-			
Gobiiformes_Marine75710.132100396Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150				
Gobiiformes_Marine brackish15942.51572327Gonorynchiformes_Euryhaline2150	_			
Gonorynchiformes_Euryhaline 2 1 50	—		-	
Gonorynchitormes_Freshwater 29 0 0				
	Gonoryncnitormes_Freshwater	29	0	0

Gonorynchiformes_Marine	4	0	0
Gymnotiformes_Freshwater	177	0	0
Hiodontiformes_Freshwater	2	1	50
Holocentriformes_Marine	79	0	0
Holocentriformes_Marine brackish	1	0	0
Incertae_sedis_in_Carangaria_Euryhaline	19	2	10.52631579
Incertae_sedis_in_Carangaria_Freshwater	13	0	0
Incertae_sedis_in_Carangaria_Freshwater brackish	9	0	0
Incertae_sedis_in_Carangaria_Marine	34	0	0
Incertae_sedis_in_Carangaria_Marine brackish	22	0	0
Incertae_sedis_in_Eupercaria_Brackish	2	0	0
Incertae_sedis_in_Eupercaria_Euryhaline	86	5	5.813953488
Incertae_sedis_in_Eupercaria_Freshwater	22	0	0
Incertae_sedis_in_Eupercaria_Freshwater brackish	8	0	0
Incertae_sedis_in_Eupercaria_Marine	605	3	0.495867769
Incertae_sedis_in_Eupercaria_Marine brackish	147	6	4.081632653
Incertae_sedis_in_Ovalentaria_Euryhaline	11	3	27.27272727
Incertae_sedis_in_Ovalentaria_Freshwater	26	2	7.692307692
Incertae_sedis_in_Ovalentaria_Freshwater brackish	12	0	0
Incertae_sedis_in_Ovalentaria_Marine	653	0	0
Incertae_sedis_in_Ovalentaria_Marine brackish	11	0	0
Istiophoriformes_Marine	10	10	100
Kurtiformes_Euryhaline	1	0	0
Kurtiformes_Freshwater	8	0	0
Kurtiformes_Freshwater brackish	4	0	0
Kurtiformes_Marine	220	0	0
Kurtiformes_Marine brackish	5	0	0
Labriformes_Euryhaline	2	0	0
Labriformes_Marine	581	0	0
Labriformes_Marine brackish	6	0	0
Lampridiformes_Marine	21	0	0
Lepidogalaxiiformes_Freshwater	1	0	0
Lepisosteiformes_Euryhaline	1	0	0
Lepisosteiformes_Freshwater	3	0	0
Lepisosteiformes_Freshwater brackish	3	1	33.33333333
Lobotiformes_Euryhaline	1	0	0
Lobotiformes_Freshwater	3	0	0
Lobotiformes_Freshwater brackish	2	0	0
Lobotiformes_Marine	1	0	0
Lophiiformes_Marine	228	0	0
Lophiiformes_Marine brackish	3	0	0
Mugiliformes_Euryhaline	23	9	39.13043478
Mugiliformes_Freshwater	1	0	0
Mugiliformes_Freshwater brackish	2	0	0
Mugiliformes_Marine	3	0	0
Mugiliformes_Marine brackish	6	0	0
Myctophiformes_Marine	186	0	0
Notacanthiformes_Marine	20	0	0
Ophidiiformes_Freshwater	3	0	0
Ophidiiformes_Freshwater brackish		0	0
Ophidiiformes_Marine	386 5	0 0	0
Ophidiiformes_Marine brackish	Э	0	0

Osmeriformes_Euryhaline	19	17	89.47368421
Osmeriformes_Freshwater	2	0	0
Osmeriformes_Freshwater brackish	2	2	100
Osmeriformes_Marine	3	1	33.33333333
Osmeriformes_Marine brackish	3	1	33.33333333
Osteoglossiformes_Freshwater	207	0	0
Osteoglossiformes_Freshwater brackish	2	0	0
Pempheriformes_Euryhaline	1	0	0
Pempheriformes_Marine	141	0	0
Pempheriformes_Marine brackish	1	0	0
Perciformes_Brackish	1	0	0
Perciformes_Euryhaline	16	7	43.75
Perciformes_Freshwater	264	4	1.515151515
Perciformes_Freshwater brackish	22	6	27.27272727
Perciformes_Marine	1972	18	0.912778905
Perciformes_Marine brackish	111	2	1.801801802
Percopsiformes_Freshwater	8	1	12.5
Pholidichthyiformes_Marine	1	0	0
Pleuronectiformes_Brackish	4	0	0
Pleuronectiformes_Euryhaline	32	4	12.5
Pleuronectiformes_Freshwater	26	0	0
Pleuronectiformes_Freshwater brackish	8	0	0
Pleuronectiformes_Marine	500	4	0.8
Pleuronectiformes_Marine brackish	63	0	0
Polymixiiformes_Marine	10	0	0
Polypteriformes_Freshwater	11	0	0
Salmoniformes_Euryhaline	41	26	63.41463415
Salmoniformes_Freshwater	125	5	4
Salmoniformes_Freshwater brackish	7	1	14.28571429
Scombriformes_Euryhaline	2	0	0
Scombriformes Marine	226	23	10.17699115
Scombriformes_Marine brackish	16	2	12.5
Siluriformes_Brackish	4	0	0
Siluriformes_Euryhaline	21	1	4.761904762
Siluriformes_Freshwater	2947	38	1.289446895
Siluriformes Freshwater brackish	52	4	7.692307692
Silumonnes_rreshwater brackish Siluriformes_Marine	10	0	0
Siluriformes_Marine brackish	58	0	0
Spariformes_Euryhaline	5	1	20
Spariformes_Freshwater brackish	1	0	0
	184	1	0.543478261
Spariformes_Marine Spariformes_Marine brackish	37	3	8.108108108
·			
Stomiatiformes_Marine	337	0	0
Stylephoriformes_Marine	1 98	0	0
Synbranchiformes_Freshwater		-	0
Synbranchiformes_Freshwater brackish	6	0	0
Syngnathiformes_Brackish	1	0	0
Syngnathiformes_Euryhaline	14	0	0
Syngnathiformes_Freshwater	14	0	0
Syngnathiformes_Freshwater brackish	9	0	0
Syngnathiformes_Marine	387	0	0
Syngnathiformes_Marine brackish	41	1	2.43902439
Tetraodontiformes_Brackish	2	0	0

Tetraodontiformes_Euryhaline	8	1	12.5
Tetraodontiformes_Freshwater	13	0	0
Tetraodontiformes_Freshwater brackish	5	0	0
Tetraodontiformes_Marine	284	0	0
Tetraodontiformes_Marine brackish	37	0	0
Uranoscopiformes_Euryhaline	2	1	50
Uranoscopiformes_Freshwater	1	0	0
Uranoscopiformes_Marine	136	0	0
Uranoscopiformes_Marine brackish	6	0	0
Zeiformes_Marine	29	0	0