

Tables

Table 5-1
Summary of Mudflat Characteristics Within the LPR

Mudflat No.	Bank Direction ^a	Reach	River Mile		Bank Type	Shoreline Vegetation	Mudflat Dimensions		
			Start	End			Area (acre)	Length (feet)	Mean Width (feet)
MF-01	Left	1	0	0.8	Riprap and mud and rock	None, mixed forest, and emergent vegetation	149	4,608	841
MF-02	Right	1	0.5	0.9	Bulkhead	None	2.1	2,340	36
MF-03	Left	1	0.8	1.5	Bulkhead and riprap	None	4.7	3,542	58
MF-04	Right	1	0.9	1.5	Bulkhead and riprap	None and emergent vegetation	4.3	3,383	54
MF-05	Right	1	1.5	3.6	Bulkhead, riprap, mud and rock	None, shrub-scrub, and emergent vegetation	31	11,117	134
MF-06	Left	1	1.5	1.7	Bulkhead	None	0.15	1,044	9
MF-07	Left	1	1.7	2	Bulkhead and mud and rock	None and shrub-scrub	1.3	1,364	40
MF-08	Left	2	2	2.7	Armored and mud and rock	Shrub-scrub	3.4	3,830	35
MF-09	Left	2	2.7	3.1	Bulkhead	None	0.16	1,922	4
MF-10	Left	2	3.1	4.3	Mud and rock	Mixed forest; emergent vegetation	14	6,437	102
MF-11	Right	2	3.7	3.8	Armored and mud and rock	Mixed forest, shrub-scrub	0.27	556	22
MF-12	Right	2 and 3	3.8	4.2	Mud and rock	Mixed forest, shrub-scrub	2.3	1,700	53
MF-13	Right	3	4.2	4.3	Mud and rock	Mixed forest, shrub-scrub	0.06	724	4
MF-14	Left	3	4.3	4.9	Bulkhead	None	4.4	3,259	64
MF-15	Right	3	4.6	4.8	Bulkhead	None	0.03	1,131	3
MF-16	Right	3	4.8	5.3	Bulkhead	None and shrub-scrub	1.1	2,714	18
MF-17	Left	3	4.9	5.3	Bulkhead	None and shrub-scrub	0.37	2,068	9
MF-18	Right	3	5.4	5.5	Bulkhead	None	0.1	315	14
MF-19	Left	3	5.4	5.5	Bulkhead	None	0.17	696	13
MF-20	Right	3	5.6	5.8	Bulkhead	None and mixed forest, shrub-scrub	0.31	1,348	12
MF-21	Left	3	5.6	5.7	Bulkhead	None	0.04	603	6
MF-22	Left	3	5.8	6.1	Bulkhead	None	0.46	1,351	16

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Mudflat No.	Bank Direction ^a	Reach	River Mile		Bank Type	Shoreline Vegetation	Mudflat Dimensions		
			Start	End			Area (acre)	Length (feet)	Mean Width (feet)
MF-23	Right	4	6	6.1	Bulkhead	None	0.06	770	5
MF-24	Left	4	6.1	6.6	Bulkhead, riprap, mud and rock	None and mixed forest, shrub-scrub	2.9	2,928	49
MF-25	Right	4	6.3	7.1	Bulkhead	Mixed forest, shrub-scrub	4.6	4,520	46
MF-26	Left	4	6.7	7.8	Mud and rock	Mixed forest, shrub-scrub	14	5,751	109
MF-27	Right	4	7.2	7.8	Bulkhead	Mixed forest, shrub-scrub	3.8	3,121	52
MF-28	Right	4 and 5	7.8	8.2	Bulkhead	Shrub-scrub	2.2	2,446	44
MF-29	Left	4 and 5	7.8	8.2	Mud and rock	Mixed forest, shrub-scrub	0.44	2,160	10
MF-30	Left	5	8.2	8.5	Mud and rock	Mixed forest, shrub-scrub	1.4	1,501	43
MF-31	Right	5	8.3	8.5	Bulkhead	None	0.28	1,065	12
MF-32	Right	5	8.5	8.6	Bulkhead and armored	Mixed forest, shrub-scrub	0.1	640	7
MF-33	Left	5	8.5	9.2	Armored and mud and rock	Mixed forest, shrub-scrub, emergent vegetation	3.1	3,538	38
MF-34	Right	5	8.7	9.2	Armored	Mixed forest, shrub-scrub	1.3	2,619	23
MF-35	Right	5	9.2	9.6	Armored and mud and rock	Mixed forest, shrub-scrub	1.4	2,285	29
MF-36	Left	5	9.2	9.4	Armored and mud and rock	Mixed forest, shrub-scrub	0.46	1,124	18
MF-37	Left	5	9.4	9.7	Mud and rock	Mixed forest, shrub-scrub	3.2	1,641	81
MF-38	Right	5	9.6	9.8	Armored	Mixed forest, shrub-scrub	0.17	1,158	7
MF-39	Left	5	9.7	10.1	Mud and rock	Mixed forest, shrub-scrub	4.2	2,366	80
MF-40	Right	5 and 6	9.8	10.3	Armored and mud and rock	Mixed forest, shrub-scrub	1	2,373	19
MF-41	Left	6	10.1	10.3	Bulkhead	None	0.14	932	6
MF-42	Right	6	10.3	10.8	Armored and bulkhead	Mixed forest, shrub-scrub	1.2	2,595	20
MF-43	Left	6	10.3	10.5	Armored	Mixed forest, shrub-scrub	0.28	814	17
MF-44	Left	6	10.5	11.1	Mud and rock	Mixed forest, shrub-scrub, emergent vegetation	6.9	3,225	97

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Mudflat No.	Bank Direction ^a	Reach	River Mile		Bank Type	Shoreline Vegetation	Mudflat Dimensions		
			Start	End			Area (acre)	Length (feet)	Mean Width (feet)
MF-45	Right	6	10.8	11.1	Armored and mud and rock	Mixed forest, shrub-scrub	1.5	1,407	42
MF-46	Right	6	11.1	11.8	Bulkhead and mud and rock	Mixed forest, shrub-scrub	5.2	4,029	59
MF-47	Left	6	11.1	11.4	Armored and mud and rock	Mixed forest, shrub-scrub	0.55	1,829	13
MF-48	Left	6	11.4	11.6	Armored and mud and rock	Mixed forest, shrub-scrub	0.82	1,076	31
MF-49	Left	6	11.6	12.1	Armored and mud and rock	Mixed forest, shrub-scrub	1.2	2,594	21
MF-50	Right	6	11.8	12.1	Bulkhead	None	0.15	1,505	6
MF-51	Right	7	12.1	12.6	Mud and rock	Mixed forest, shrub-scrub	1.6	2,767	26
MF-52	Left	7	12.2	12.5	Armored and mud and rock	Mixed forest	0.37	1,370	12
MF-53	Left	7	12.5	12.9	Armored and mud and rock	Mixed forest, shrub-scrub	1.2	2,440	23
MF-54	Right	7	12.6	13	Armored and mud and rock	Mixed forest, shrub-scrub	0.22	1,610	9
MF-55	Right	7	13	13.1	Mud and rock	Mixed forest, shrub-scrub	0.19	751	12
MF-56	Left	7	13	13.1	Mud and rock	Mixed forest, shrub-scrub	0.24	649	15
MF-57	Left	7	13.2	13.2	Mud and rock	Mixed forest	0.05	368	7
MF-58	Right	7	13.3	13.7	Bulkhead and mud and rock	Mixed forest, shrub-scrub	0.58	1,814	16
MF-59	Left	7	13.3	13.3	Mud and rock	Mixed forest	0.08	190	20
MF-60	Left	7	13.4	13.6	Armored	Mixed forest, shrub-scrub	0.39	1,055	16
MF-61	Left	7	13.6	14	Armored	Mixed forest, shrub-scrub	0.25	1,839	7
MF-62	Right	7	13.8	13.9	Armored	Mixed forest, shrub-scrub	0.04	644	4
MF-63	Right	8	14	14.1	Concrete embankment	Mixed forest, shrub-scrub	0.01	875	1
MF-64	Left	8	14	14.6	Bulkhead and mud and rock	Mixed forest, shrub-scrub	4.2	3,251	62
MF-65	Right	8	14.2	14.2	Concrete embankment	Mixed forest, shrub-scrub	0.08	218	28
MF-66	Right	8	14.2	14.4	Armored	Mixed forest, shrub-scrub	0.08	1,015	3
MF-67	Right	8	14.5	14.6	Armored	Mixed forest, shrub-scrub	0.05	665	7
MF-68	Right	8	14.6	14.9	Bulkhead	Shrub-scrub	0.4	1,295	15

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Mudflat No.	Bank Direction ^a	Reach	River Mile		Bank Type	Shoreline Vegetation	Mudflat Dimensions		
			Start	End			Area (acre)	Length (feet)	Mean Width (feet)
MF-69	Left	8	14.8	14.9	Armored	Mixed forest, shrub-scrub	0.04	477	30
MF-70	Right	8	14.9	15	Armored	Mixed forest, shrub-scrub	0.55	762	45
MF-71	Left	8	15	15.3	Mud and rock	Mixed forest, shrub-scrub	7.5	1,667	189
MF-72	Right	8	15.1	15.1	Armored	Mixed forest, shrub-scrub	0.13	311	17
MF-73	Right	8	15.3	15.7	Armored and mud and rock	Mixed forest, shrub-scrub	3.3	2,187	69
MF-74	Left	8	15.3	15.5	Armored and mud and rock	Mixed forest, shrub-scrub	3	1,033	134
MF-75	Left	8	15.5	15.7	Armored	Mixed forest, shrub-scrub	0.51	978	124
MF-76	Right	8	15.7	15.8	Mud and rock and armored	Mixed forest, shrub-scrub	0.41	616	29
MF-77	Left	8	15.7	15.8	Mud and rock and armored	Mixed forest, shrub-scrub	0.76	639	59
MF-78	River wide	8	15.8	16	Mud and rock and armored	Mixed forest, shrub-scrub	5.6	1,322	182
MF-79	River wide	8	16	17.1	Mud and rock; some bulkheads	Sheltering forest; shrub-scrub	37	5,774	294
MF-80	Left	8	16.5	16.7	Mud and rock	Sheltering forest; shrub-scrub	2.6	1,159	100
MF-81	River wide	8	17.1	17.4	Mud and rock; some bulkheads	Sheltering forest; shrub-scrub	11	1,461	335

Notes:

Mudflat areas for ecological receptors are those areas where the river bottom slope is $\leq 6^\circ$ and the depth is ≥ -2 feet mean lower low water (MLLW). In the event that mudflats were dredged after the collection of sediment for chemical analyses, those sediment chemistry data were omitted from the calculation of EPCs because the sediment chemistry data is no longer representative of site conditions.

a. Bank direction assumes that the observer is facing downstream

MF: mudflat

Table 5-2
Summary of Mudflat Area Acreage

Reach	Approximate Area (acreage)
Reach 1 (RM 0 – RM 2)	193
Reach 2 (RM 2 – RM 4)	19
Reach 3 (RM 4 – RM 6)	8.2
Reach 4 (RM 6 – RM 8)	27
Reach 5 (RM 8 – RM 10)	17
Reach 6 (RM 10 – RM 12)	18
Reach 7 (RM 12 – RM 14)	5.2
Reach 8 (RM 14 – RM 17.4)	77

Note:

Mudflat area acreage summaries by reach are approximate; the area of mudflats that occur over two reaches (as noted in Table 5-1) were estimated as one half the area in one reach and one half the area in the other reach.

RM: river mile

Figures



Note: Mudflat areas for ecological receptors are those areas where the river bottom slope is $\leq 6^\circ$ and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

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0 1,000 2,000 4,000 Feet

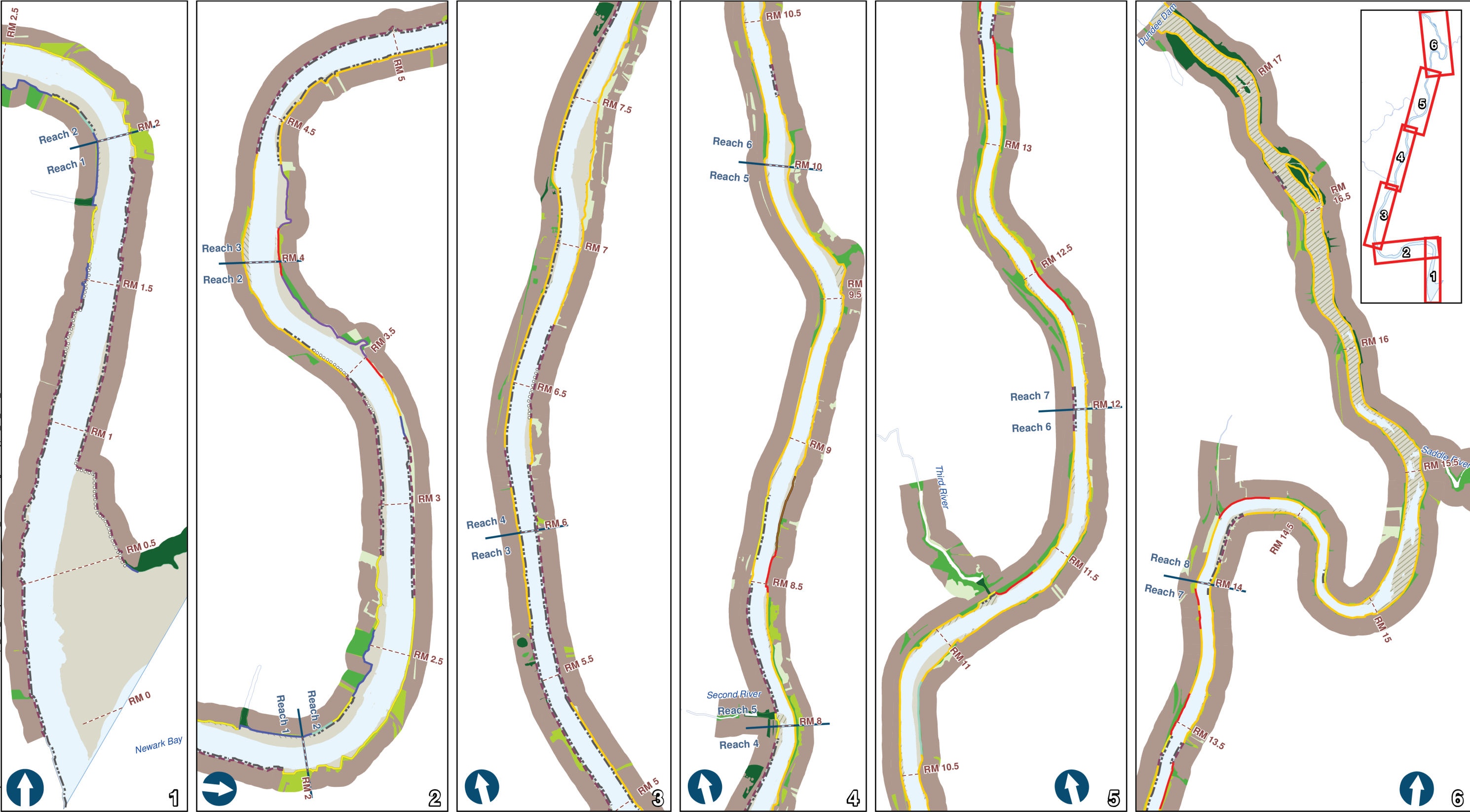
— Sampling reach boundary — River mile
 Mudflat LPRSA
 Gravel with fines

Plant community
 Mixed forest
 Shrub/scrub
 Emergent vegetation
 None

Mixed community
 Mixed forest and shrub/scrub
 Shrub/scrub and emergent vegetation:
 Mixed forest and emergent vegetation
 Mixed forest, shrub/scrub, and emergent vegetation

Figure 5-1
LPRSA Shoreline Plant Communities

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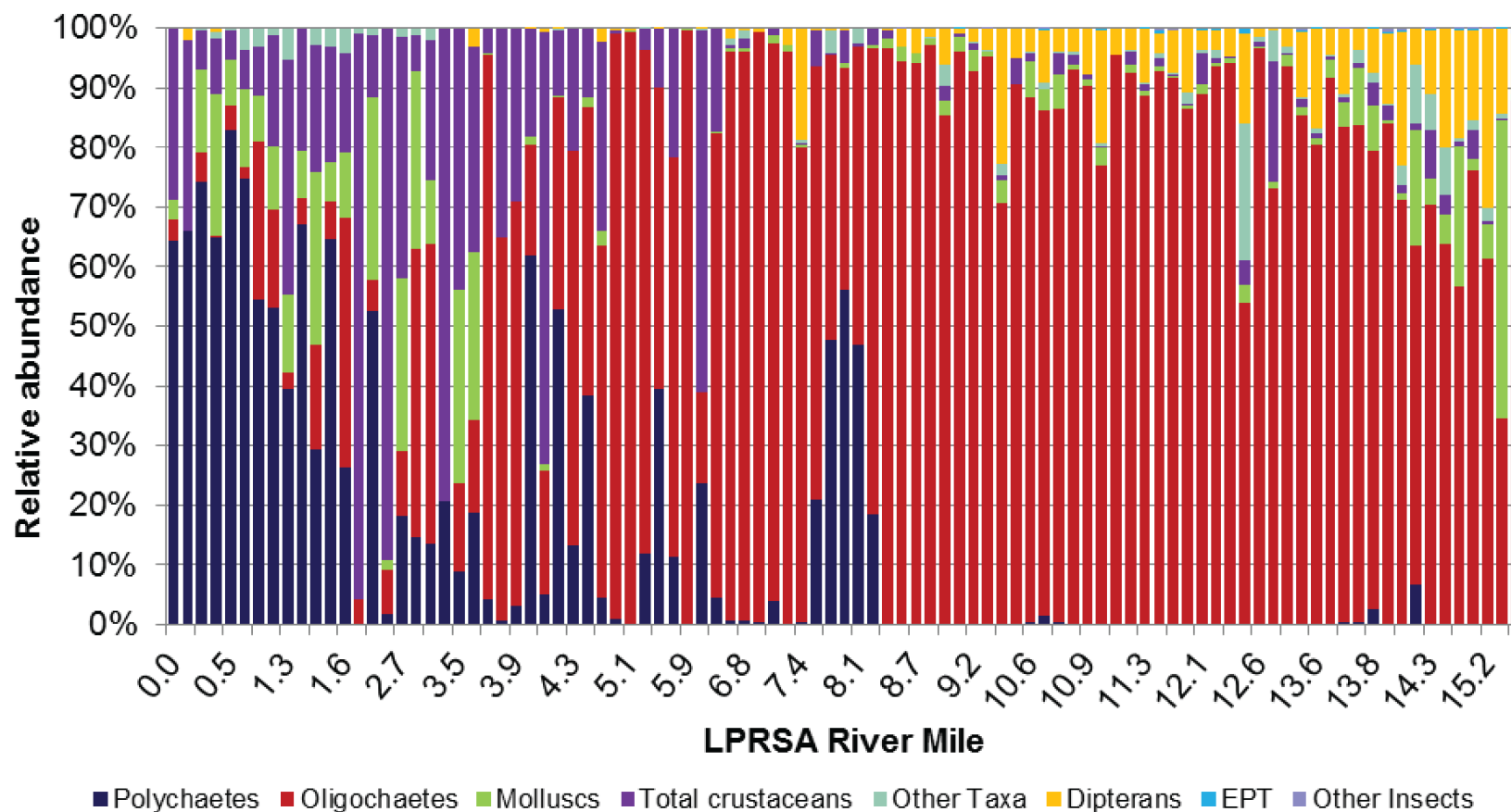


Note: Mudflat areas for ecological receptors are those areas where the river bottom slope is $\leq 6^\circ$ and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey. Tree and shrub cover were estimated from orthorectified aerial photographs.

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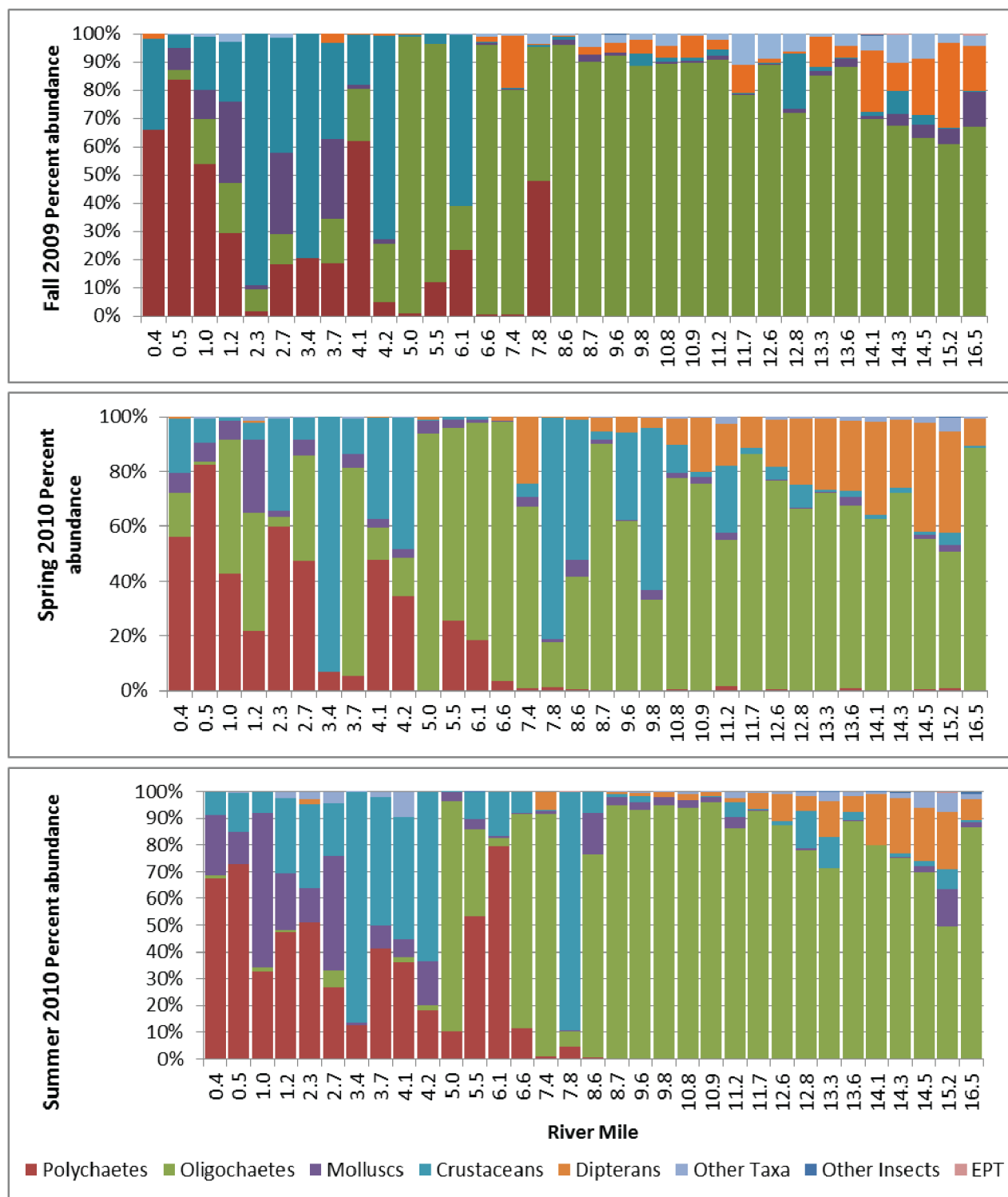
Figure 5-2
LPRSA Shoreline Habitat

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Note: Major taxa not indicated contribute < 1% to the total abundance; Chironomidae are included in Dipterans category; Other insects category includes all non-Dipteran and non-EPT insects; Other Taxa category includes all other non-insect taxa (e.g., Turbellaria, Nematoda, Nemertea, Hirudinea [leeches], etc.).

Source: Windward 2014a



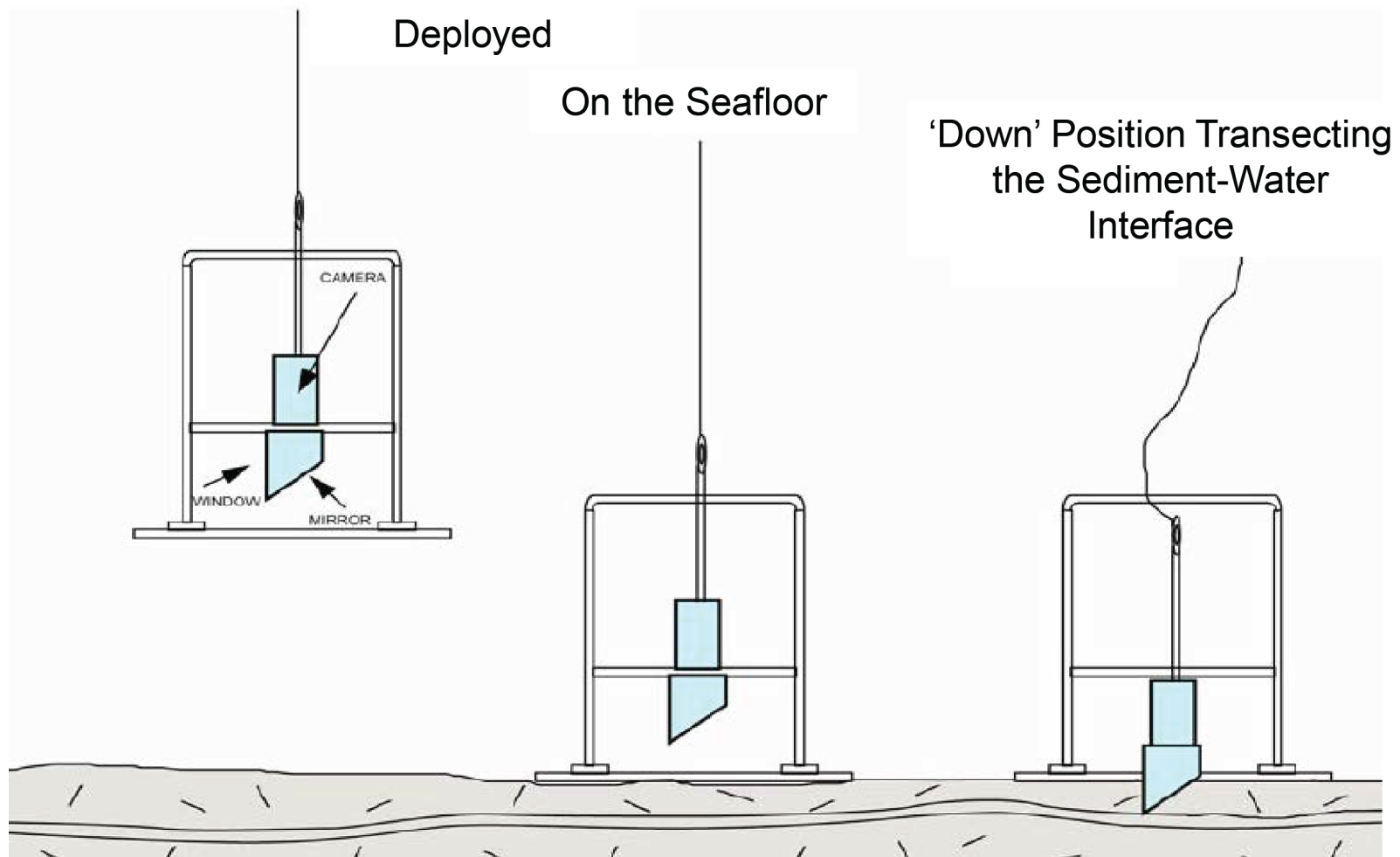
Note: Only resampled locations are shown. Chironomidae are included in Dipterans category; Other Insects category includes all non-Dipteran and non-EPT insects; Other Taxa category includes all other non-insect taxa, including Turbellaria, Nematoda, Nemertea, Hirudinea (leeches), and others.

Source: Winward 2014a

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Figure 5-4
Comparison of Major Benthic Invertebrate Taxonomic Groups Present in the
LPRSA for the 2009 and 2010 Surveys

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Source: Germano & Associates (2005)

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Figure 5-5
Sediment Profiling Imaging (SPI) Surveying Method

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A. Station 123 D



B. Station 143 A



B. Station 119 D

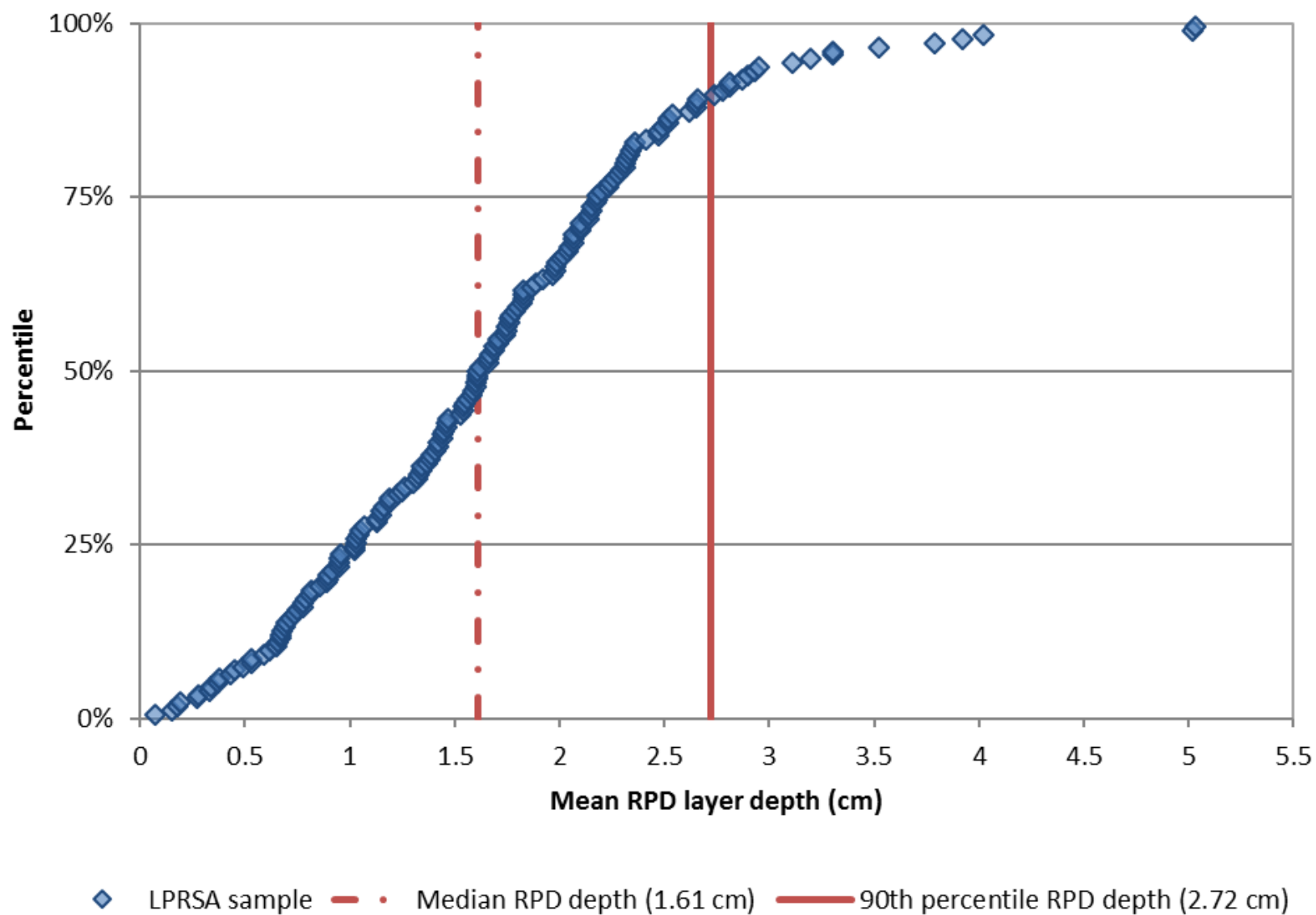
Note: Scale image width = 14.6 cm.

Source: Germano & Associates (2005)

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Figure 5-6
Example SPI Data from the LPR

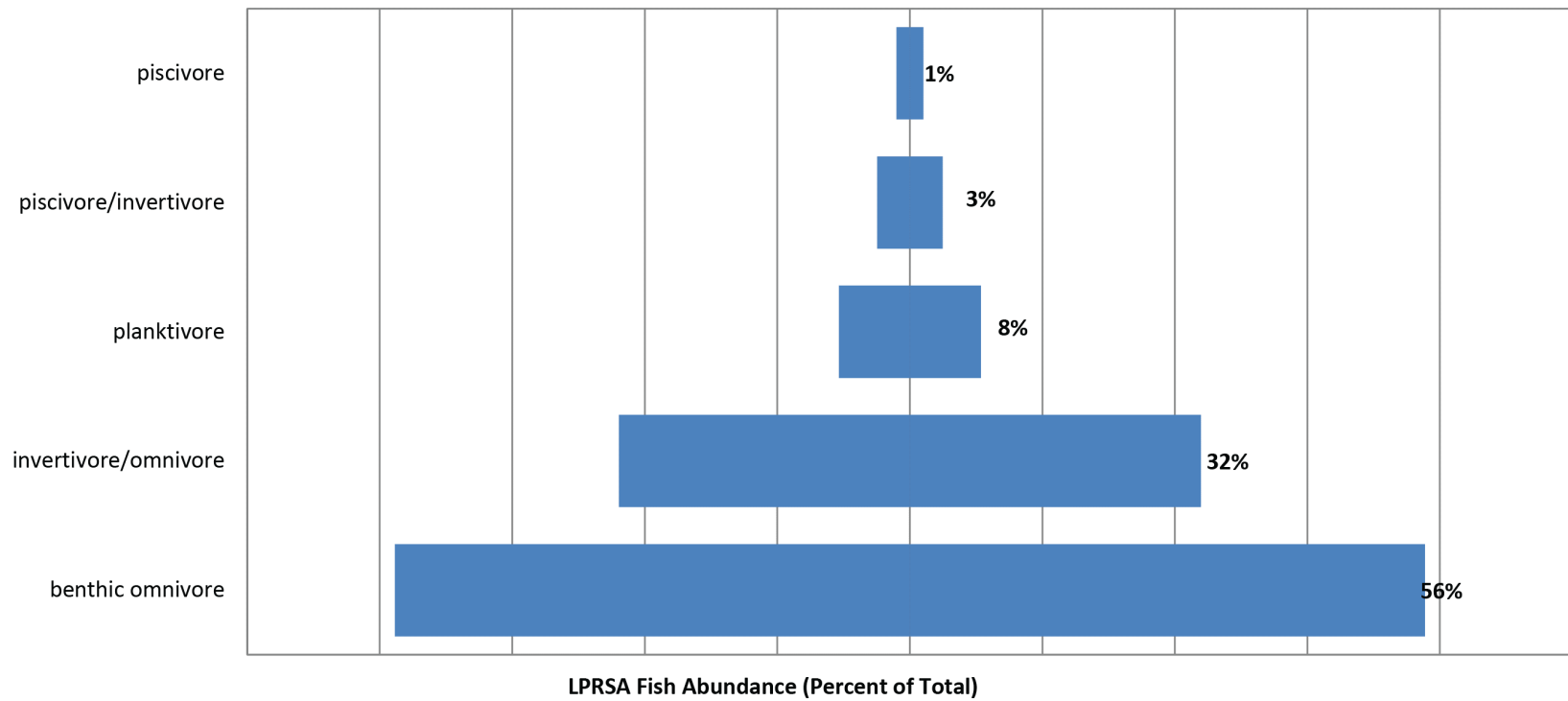
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Figure 5-7
Mean RPD Layer Depth at SPI Stations, June 2005

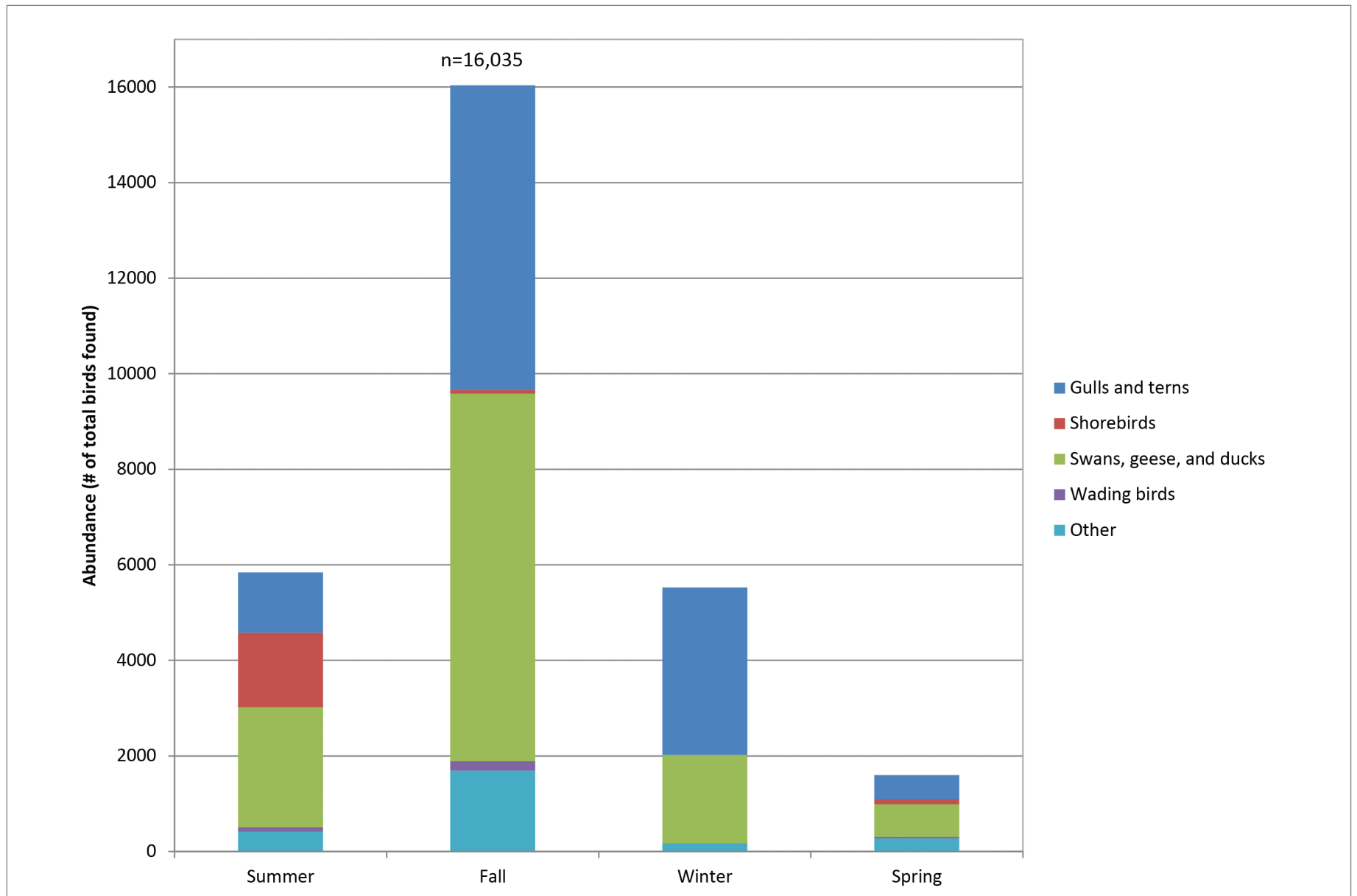
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Figure 5-8
LPRSA General Fish Feeding Guild Abundance from the 2009 and 2010 Fish Community Surveys

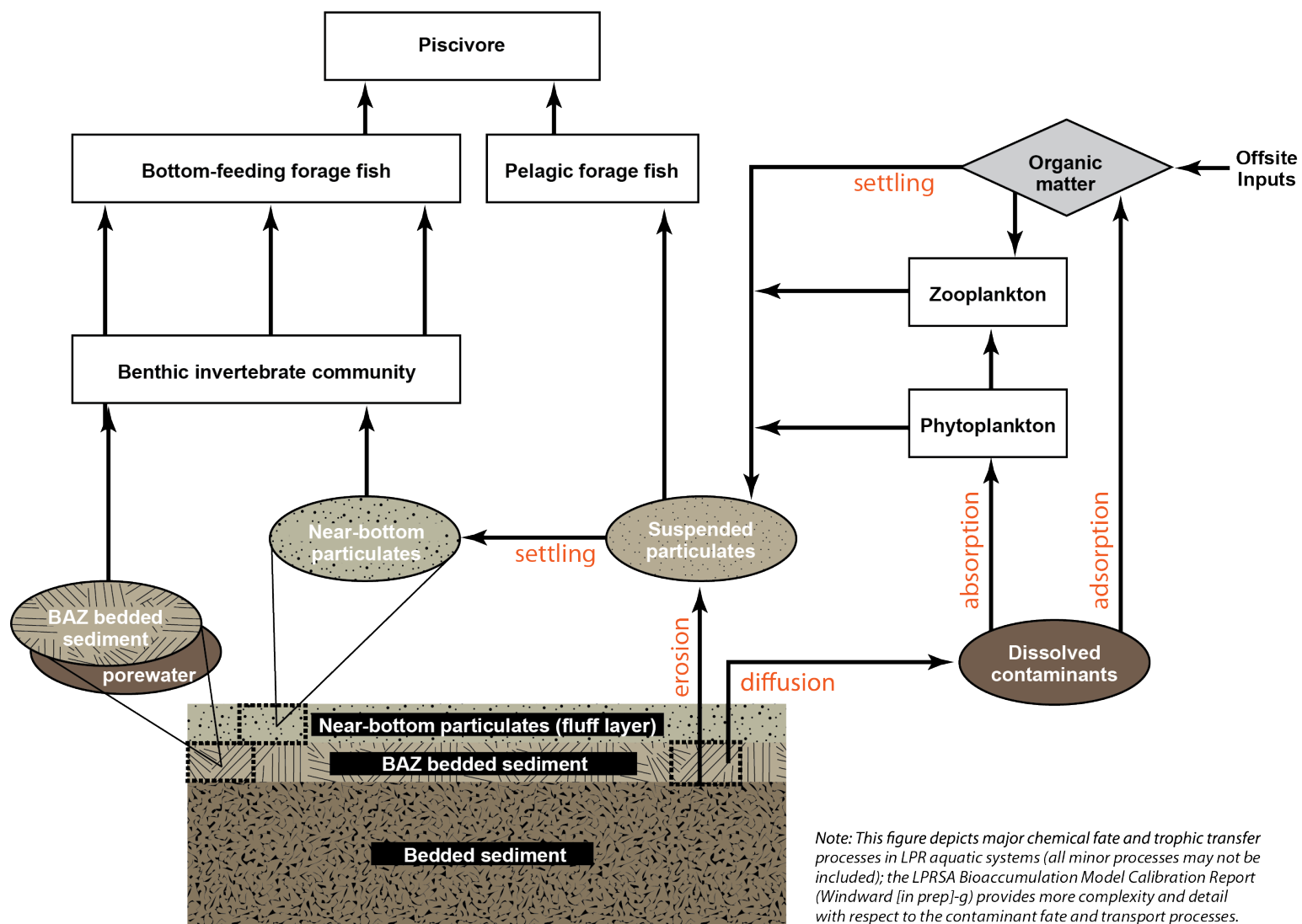
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Figure 5-9
Abundance of Major Aquatic or Semi-aquatic Bird Groups During the Four Seasonal Survey Events, 2010 to 2011

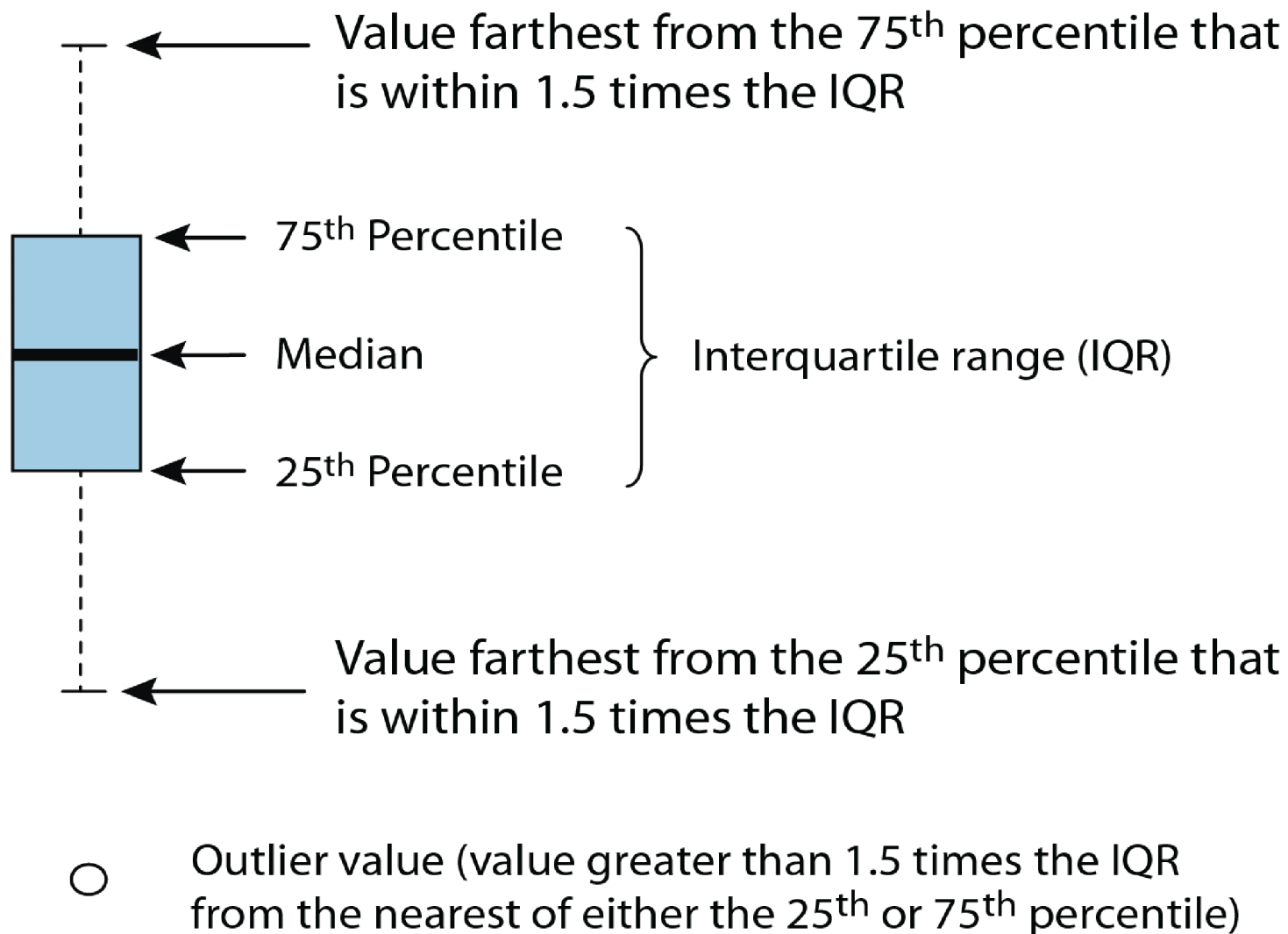
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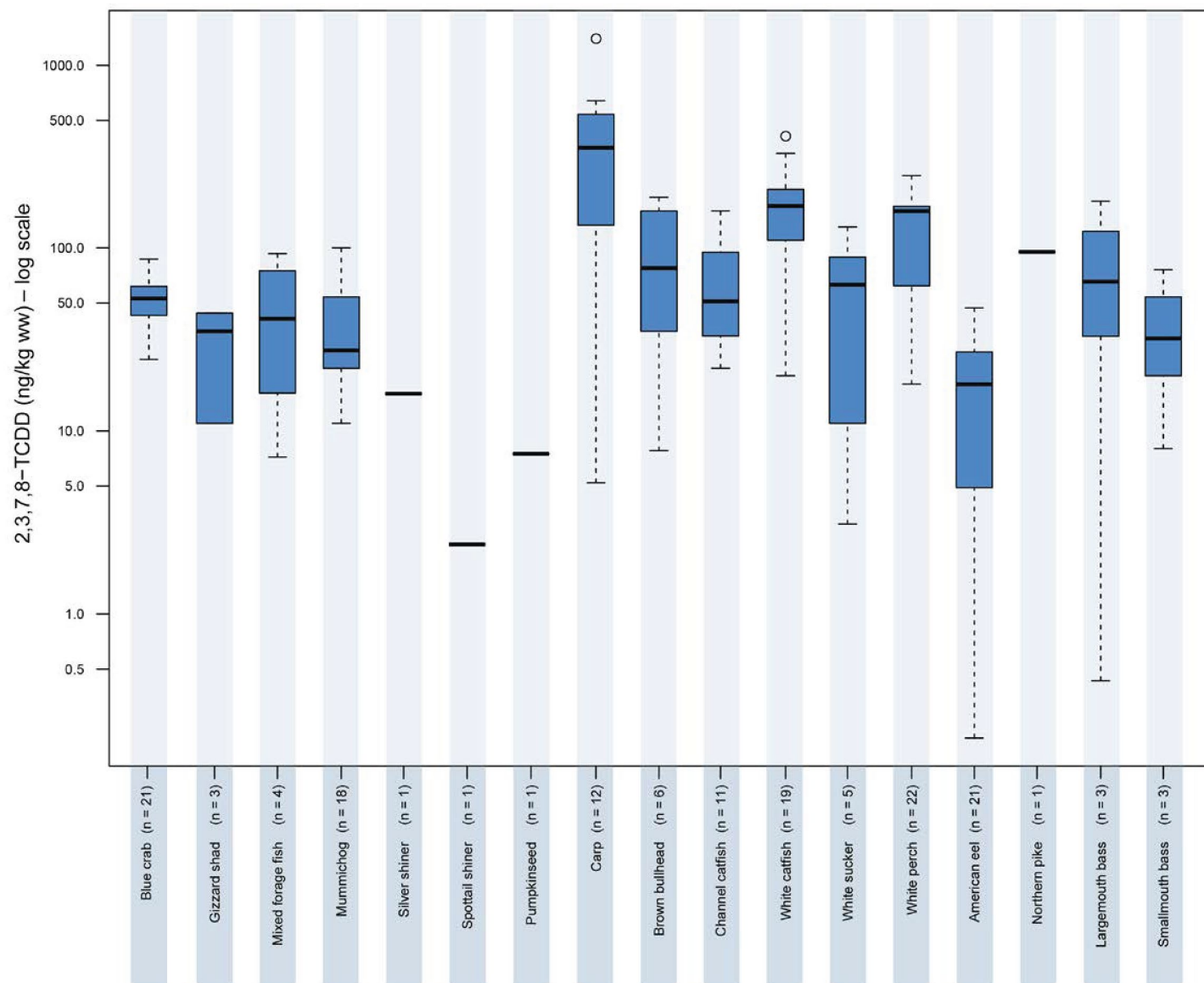
Figure 5-10
A Simplified LPR Ecological Food Web

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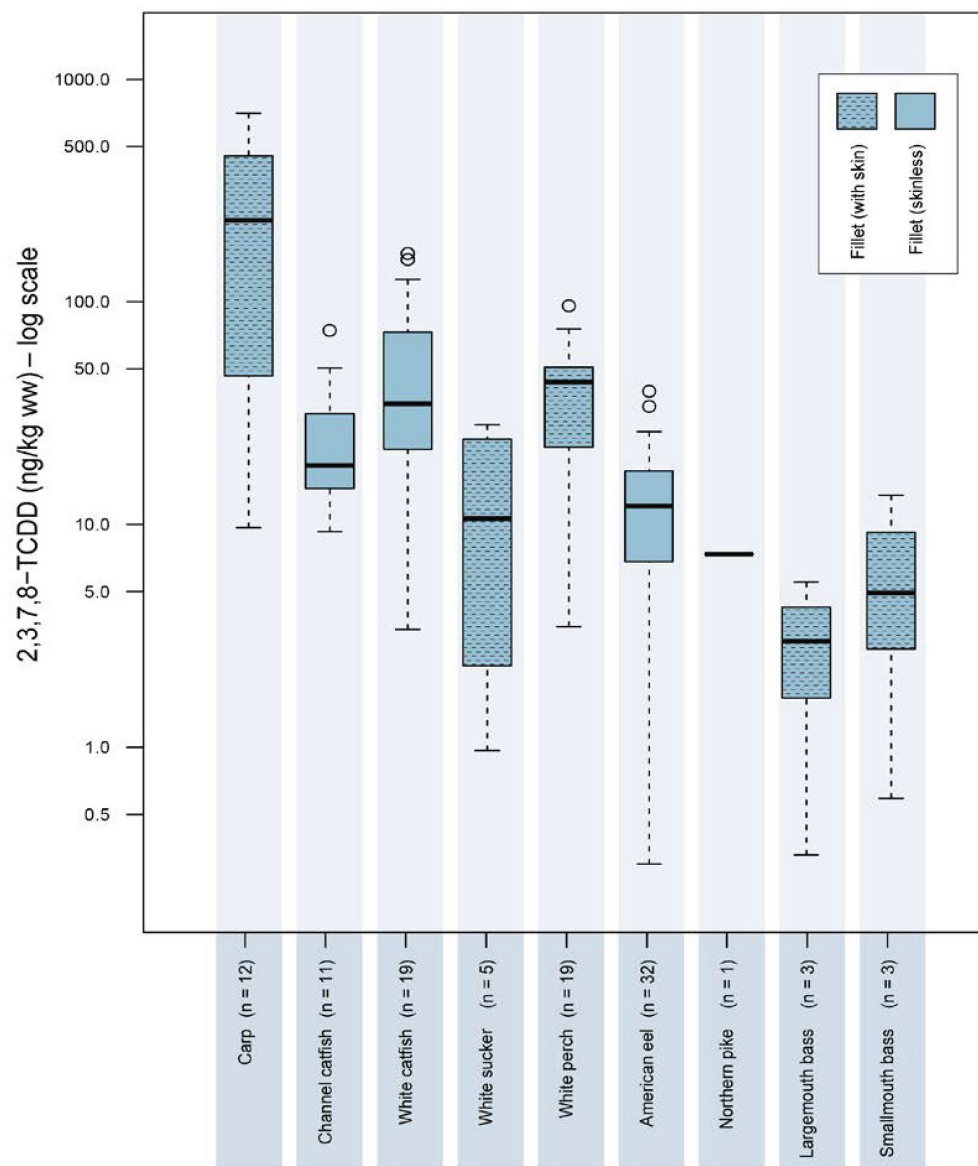
Figure 5-11
Elements of the Box and Whisker Plots for Biota Tissue
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Figure 5-12a
Box and Whisker Plots of 2,3,7,8-TCDD in LPRSA Crab and Fish Whole Body Tissue Samples

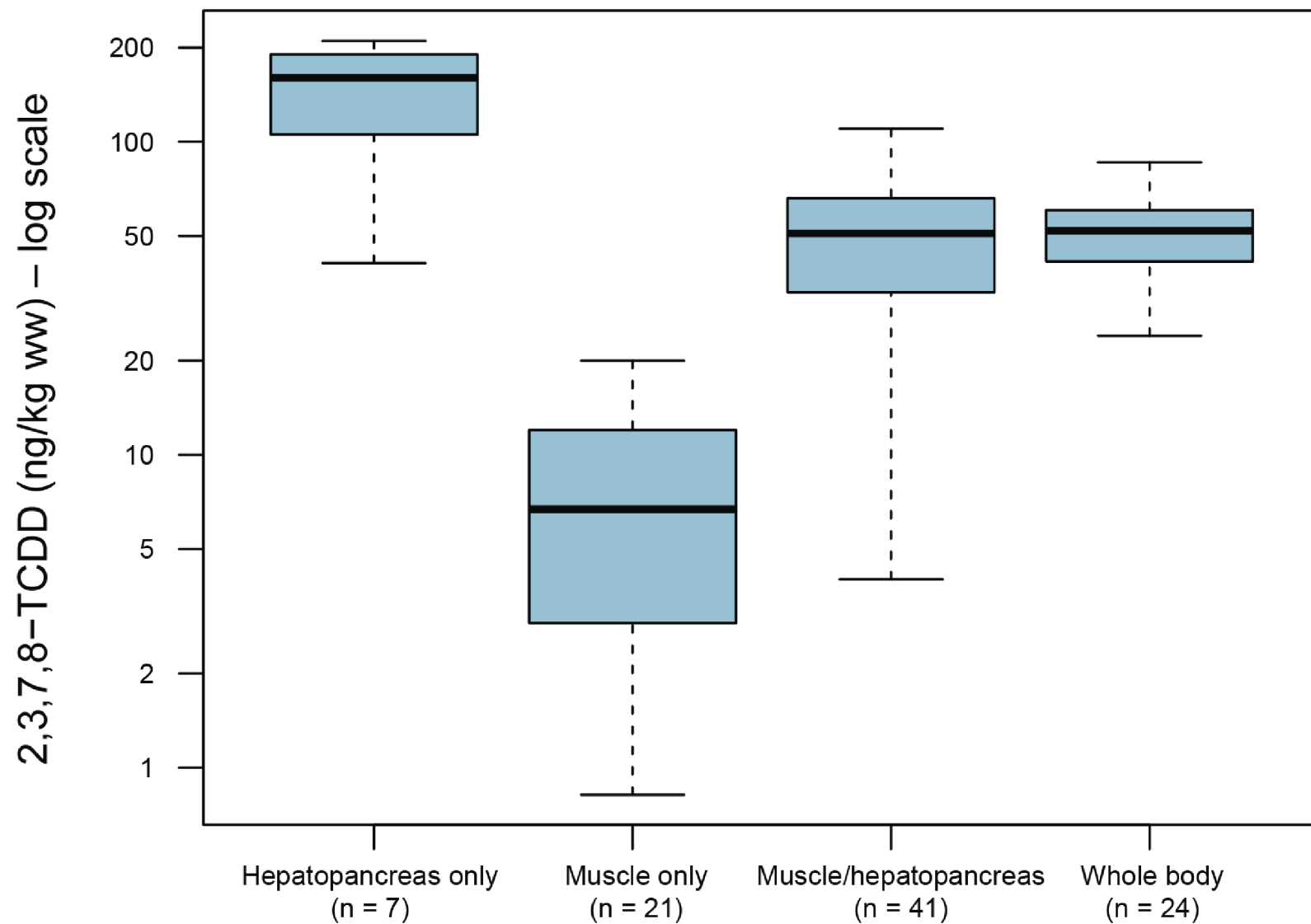
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Figure 5-12b
Box and Whisker Plots of 2,3,7,8-TCDD in LPRSA Fish Fillet Tissue Samples

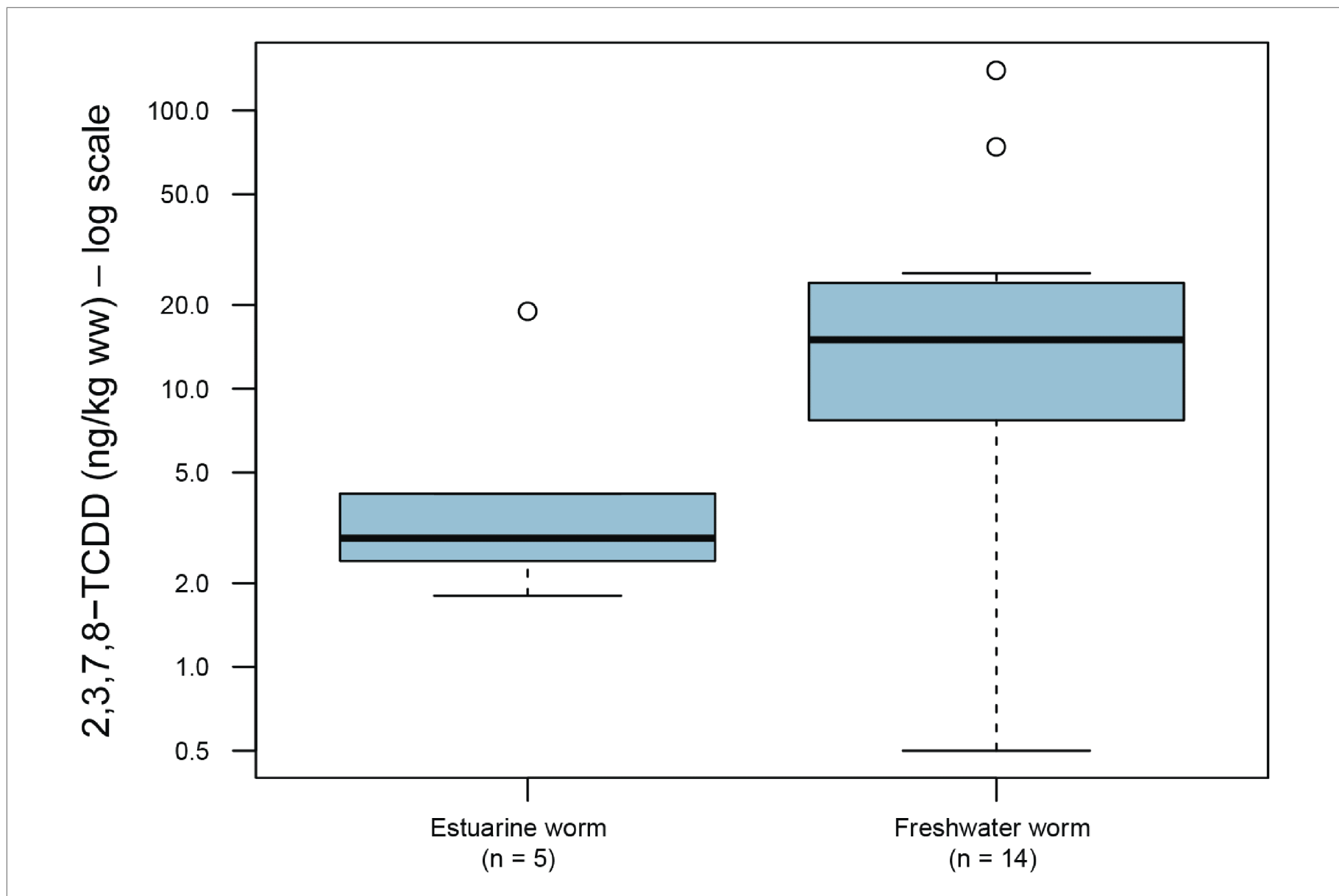
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Figure 5-12c
Box and Whisker Plots of 2,3,7,8-TCDD in LPRSA Blue Crab Bivalve Tissue Samples

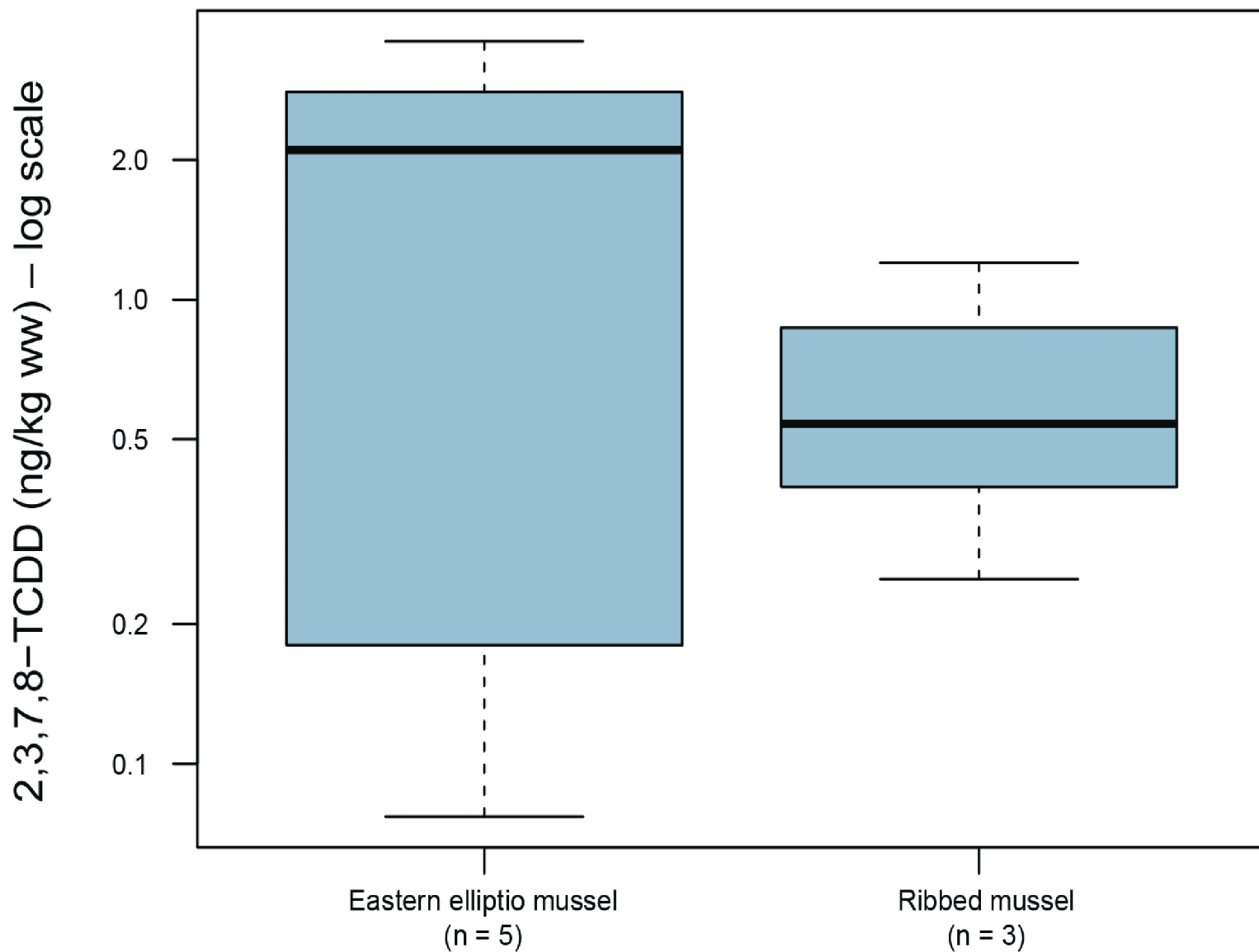
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Figure 5-12d
Box and Whisker Plots of 2,3,7,8-TCDD in LPRSA Bioaccumulation Worm Tissue Samples

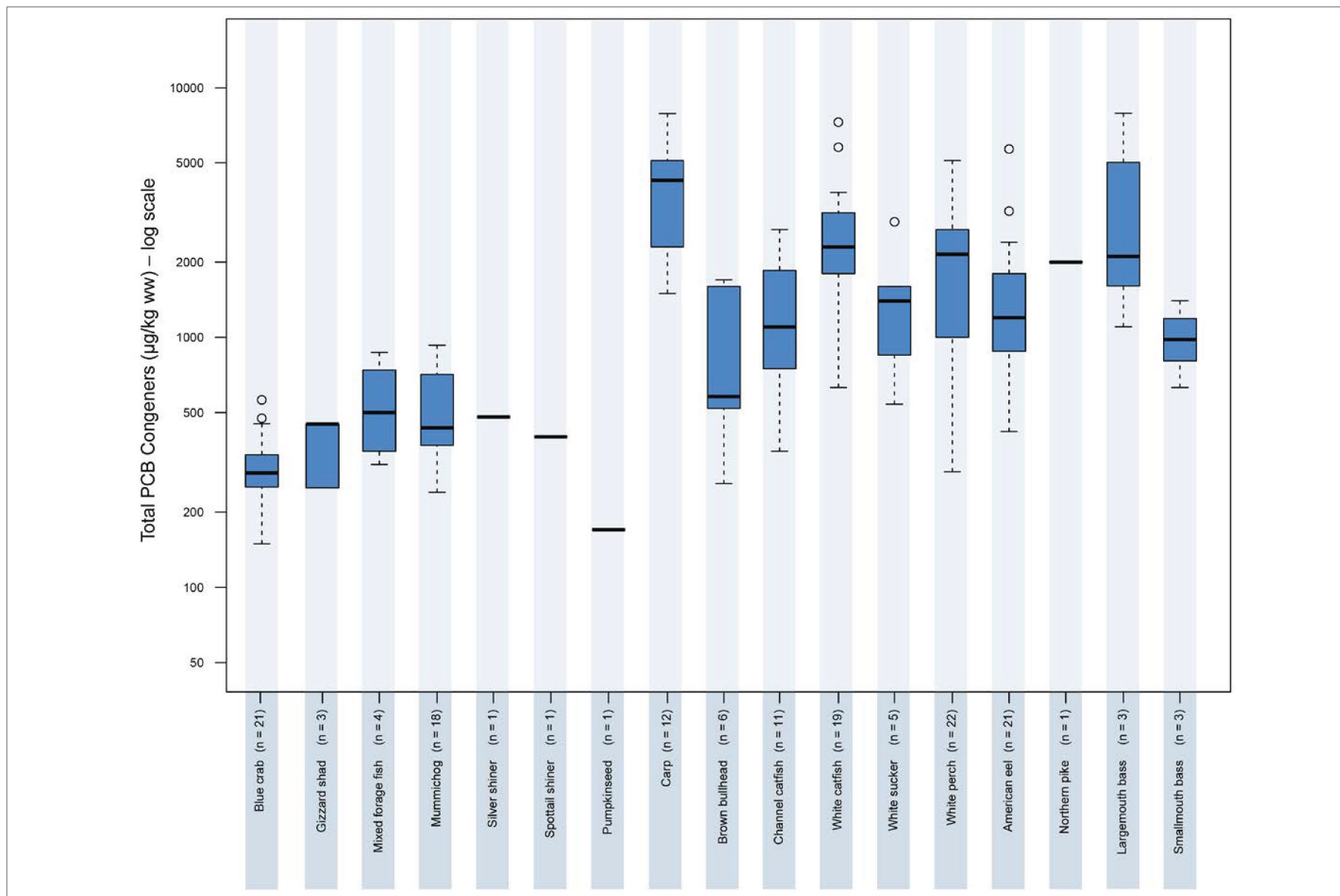
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Figure 5-12e
Box and Whisker Plots of 2,3,7,8-TCDD in LPRSA Caged Bivalve Tissue Samples

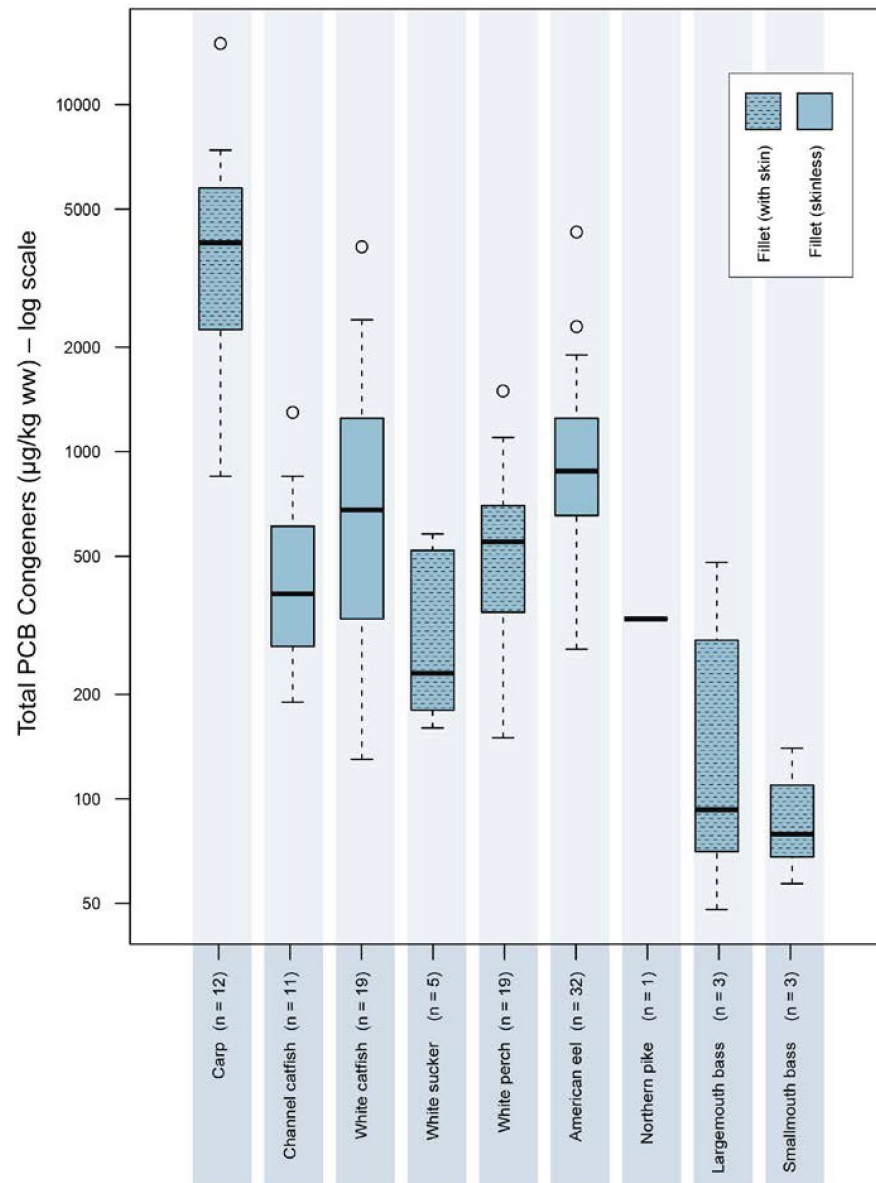
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Figure 5-13a
Box and Whisker Plots of Total PCBs in LPRSA Crab and Fish Whole Body Tissue Samples

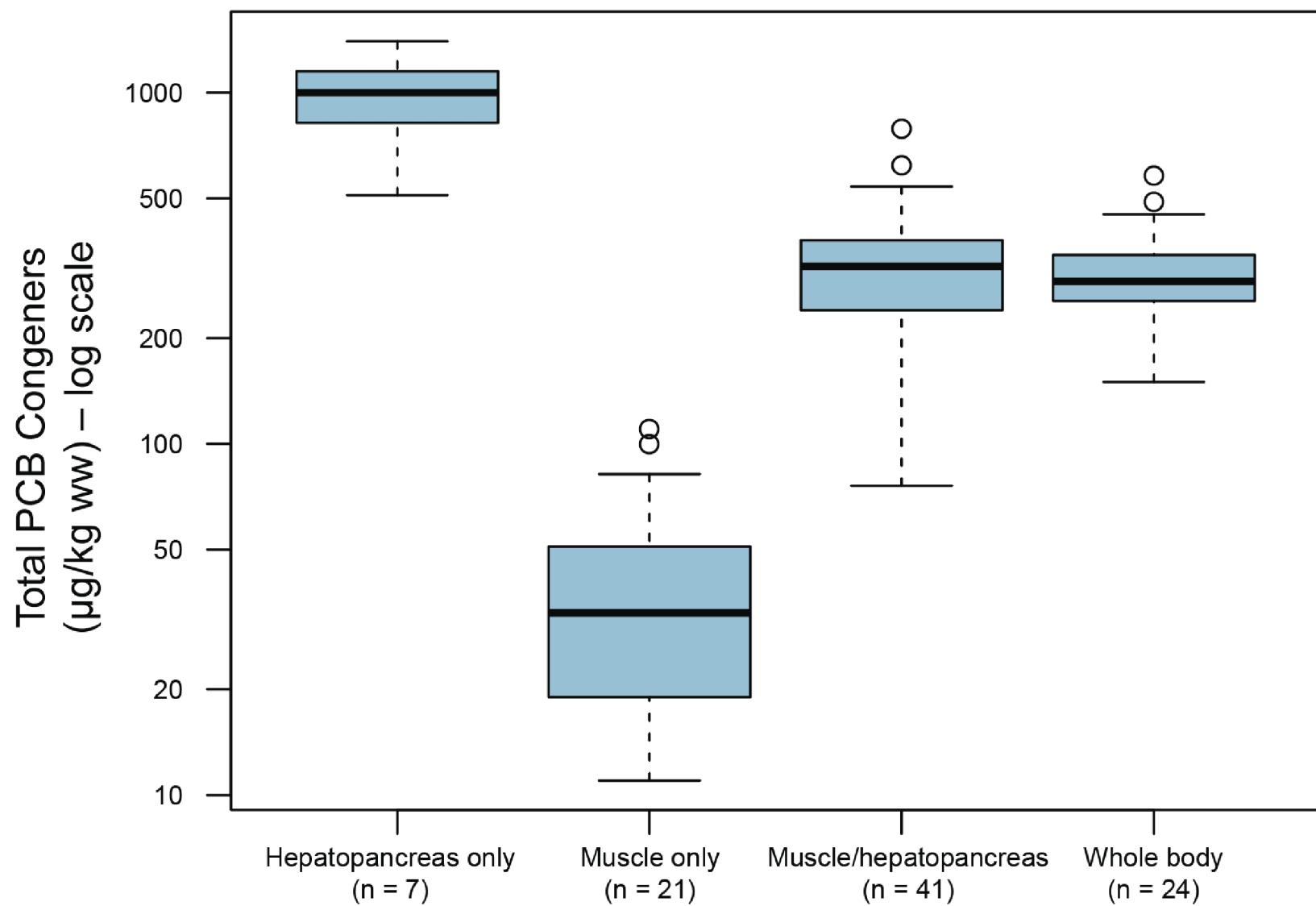
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Figure 5-13b
Box and Whisker Plots of Total PCBs in LPRSA Fish Fillet Tissue Samples

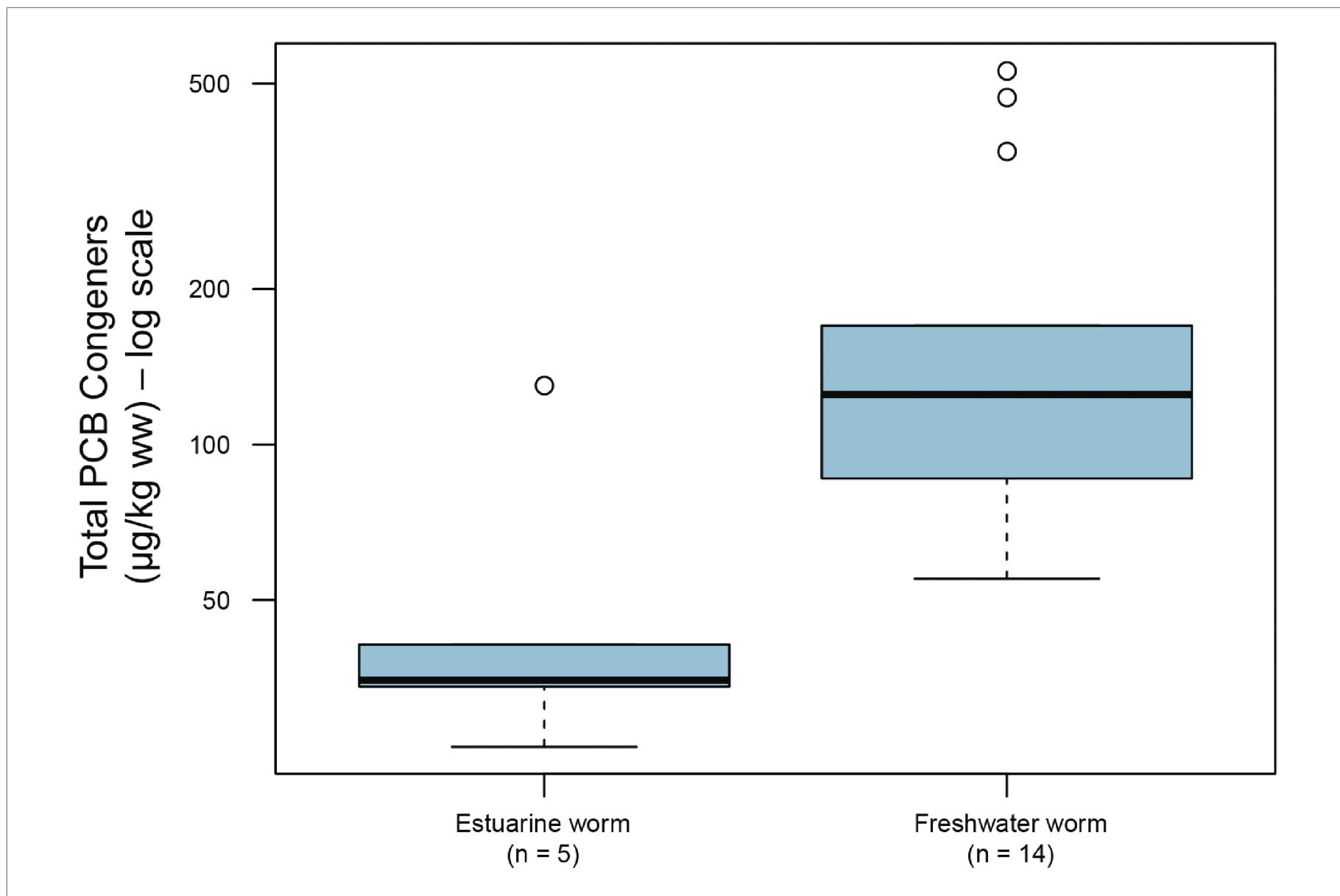
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Figure 5-13c
Box and Whisker Plots of Total PCBs in LPRSA Blue Crab Bivalve Tissue Samples

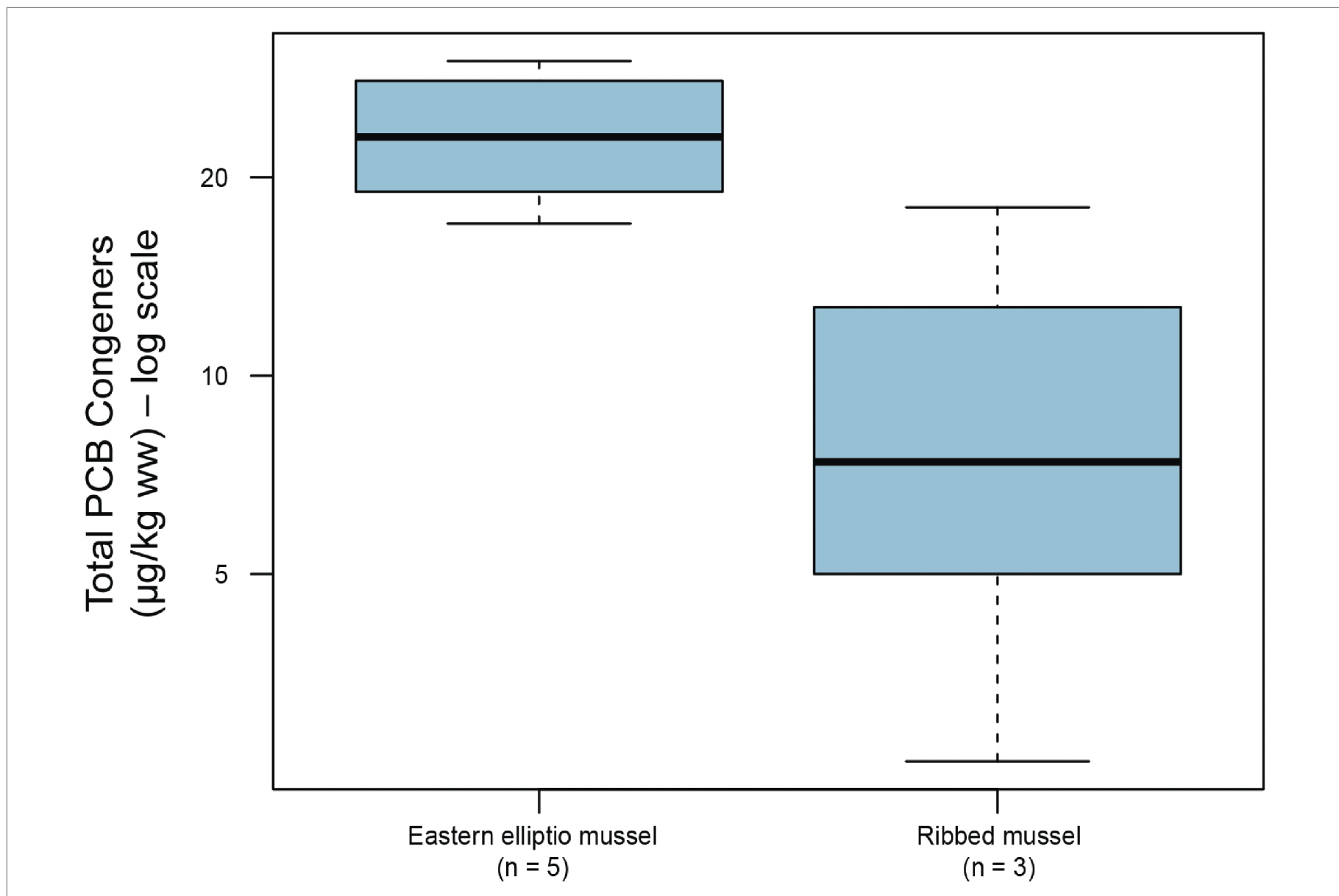
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Figure 5-13d
Box and Whisker Plots of Total PCBs in LPRSA Bioaccumulation Worm Tissue Samples

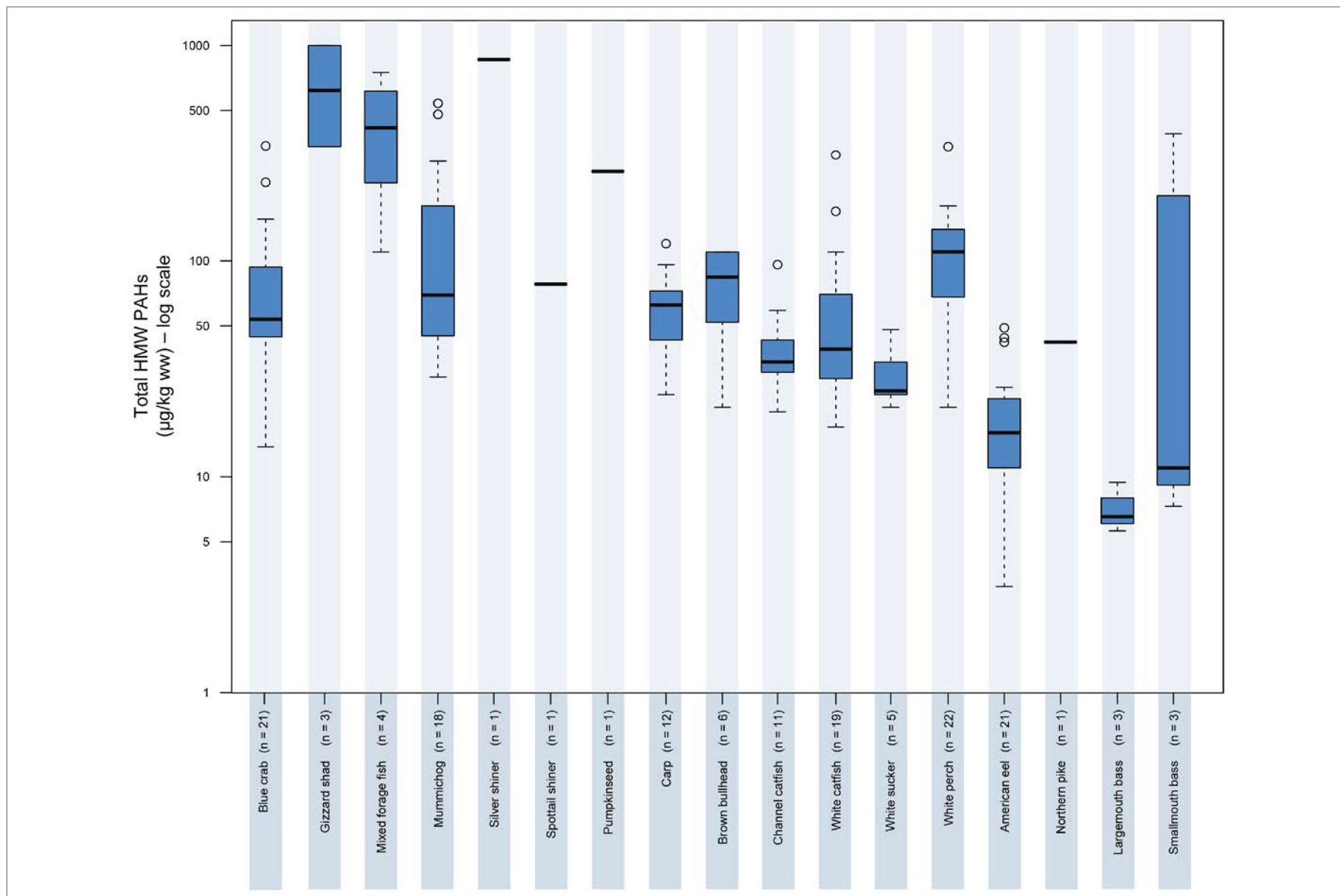
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Figure 5-13e
Box and Whisker Plots of Total PCBs in LPRSA Caged Bivalve Tissue Samples

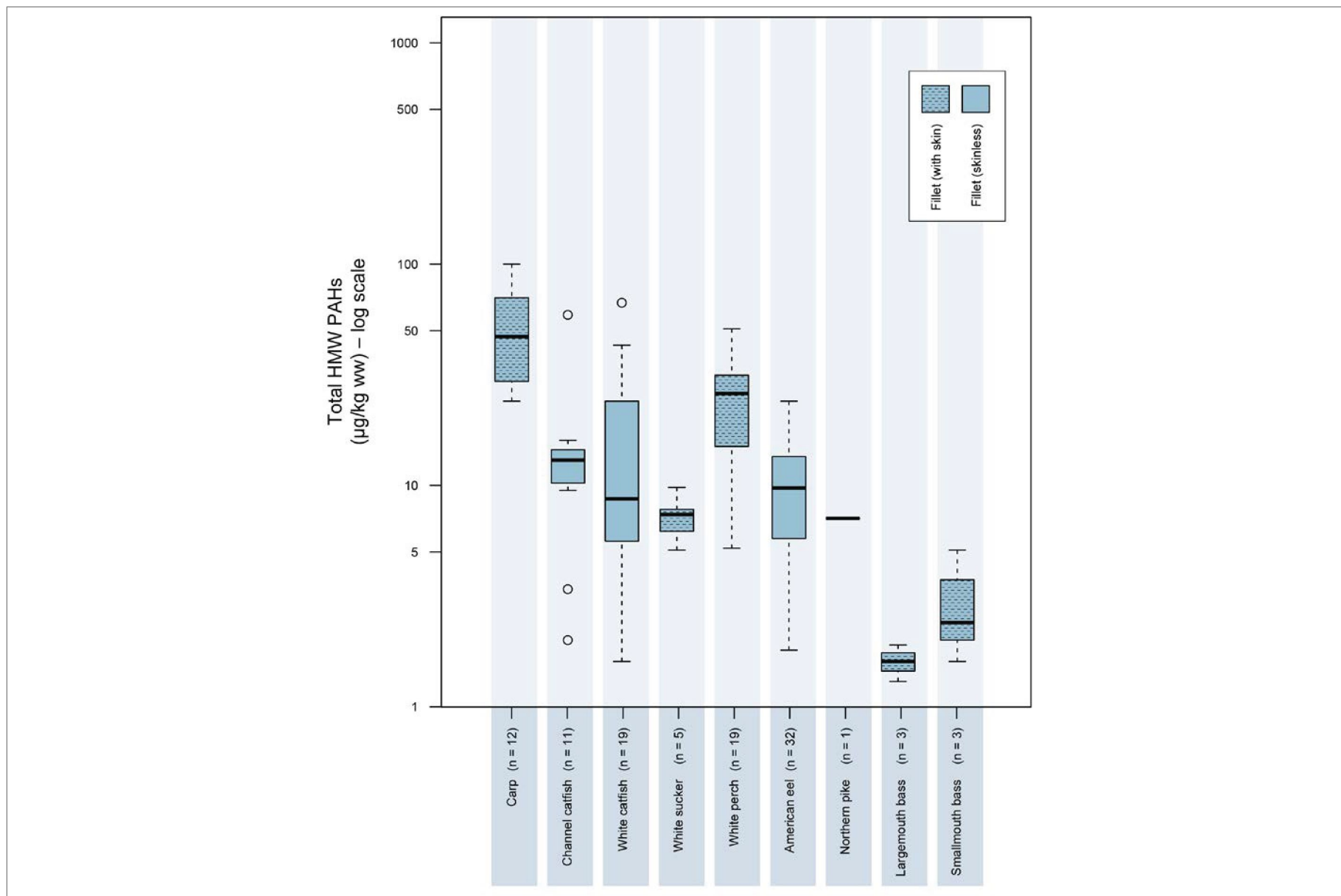
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Figure 5-14a
Box and Whisker Plots of HMW PAHs in LPRSA Crab and Fish Whole Body Tissue Samples

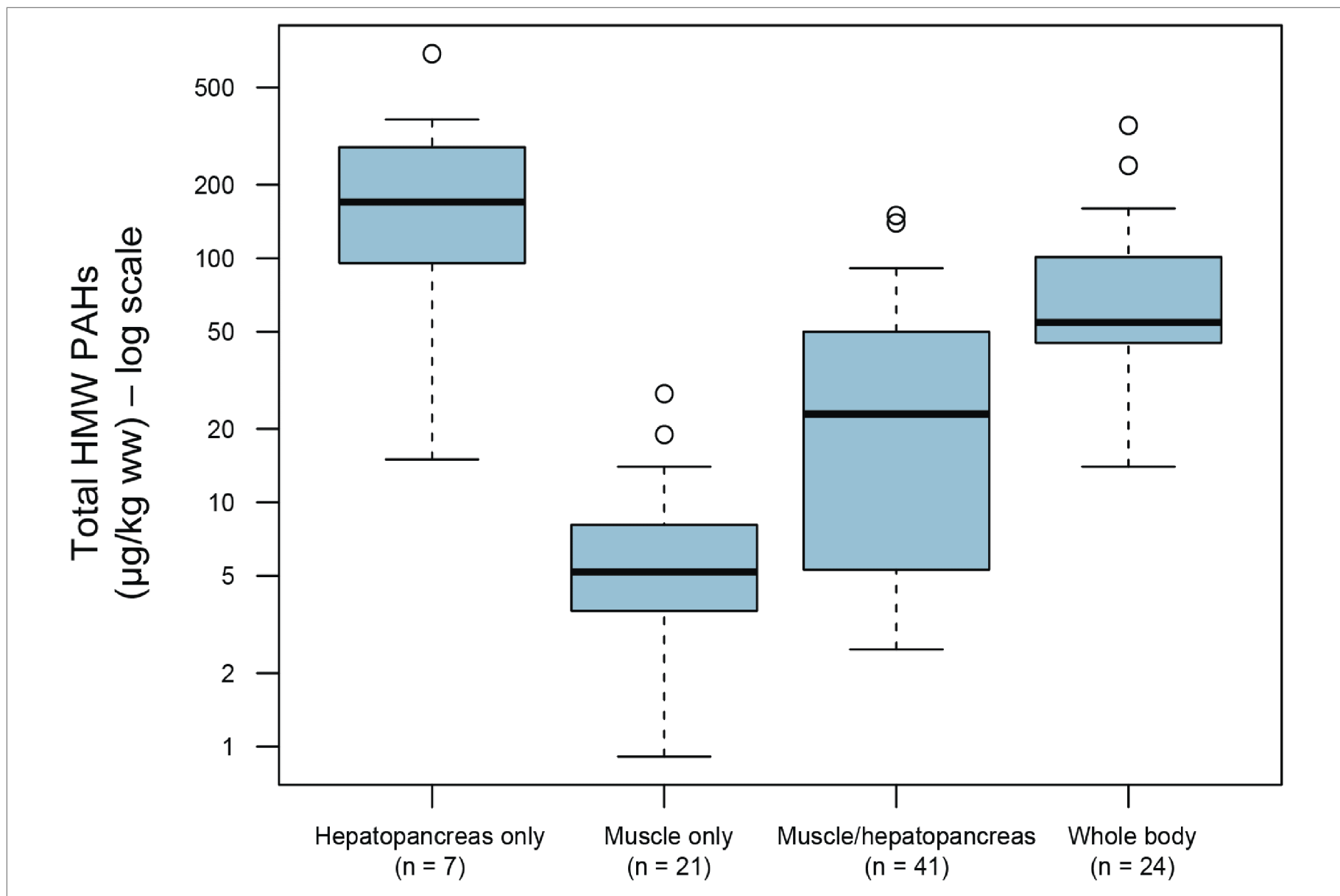
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Figure 5-14b
Box and Whisker Plots of HMW PAHs in LPRSA Fish Fillet Tissue Samples

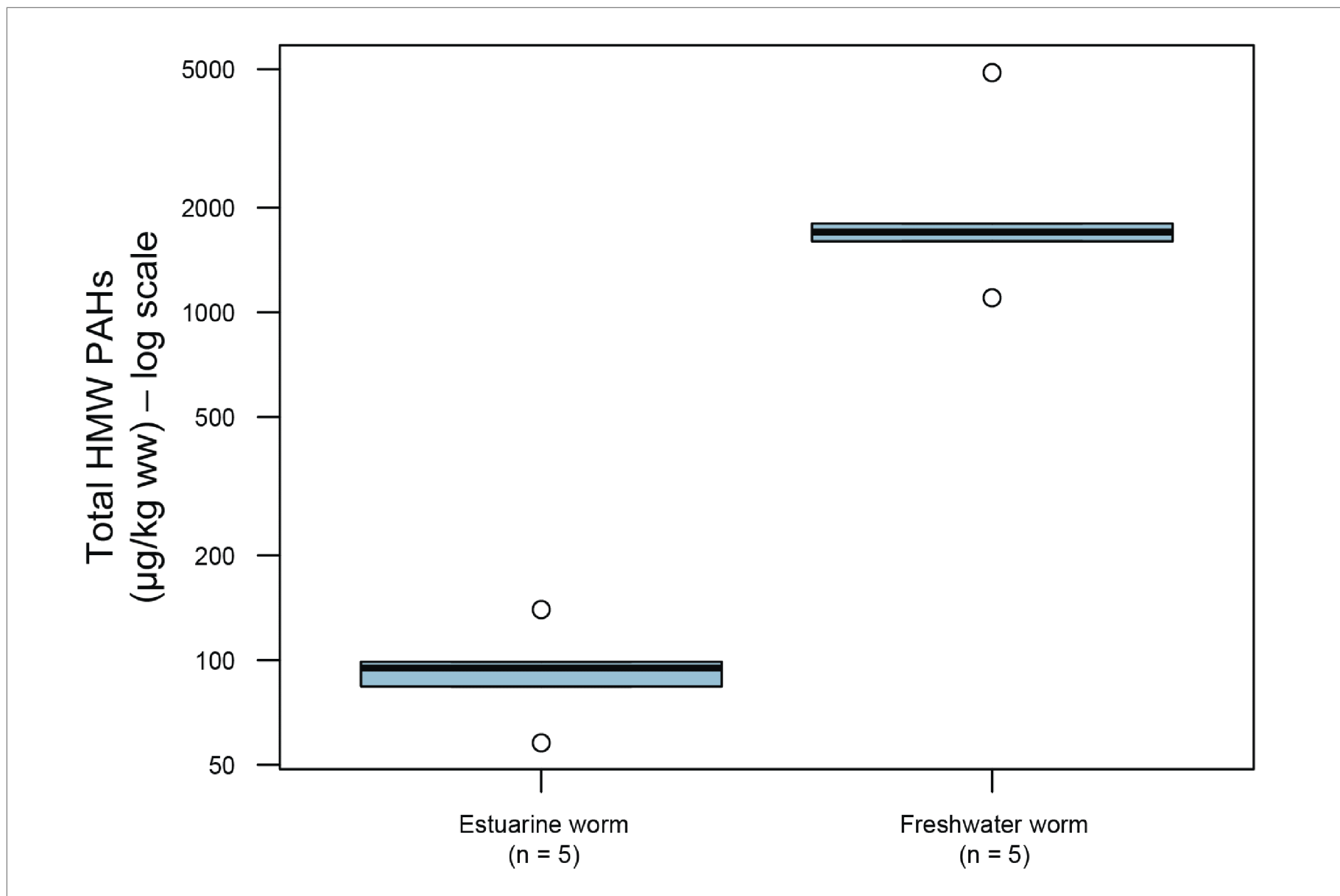
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Figure 5-14c
Box and Whisker Plots of HMW PAHs in LPRSA Blue Crab Bivalve Tissue Samples

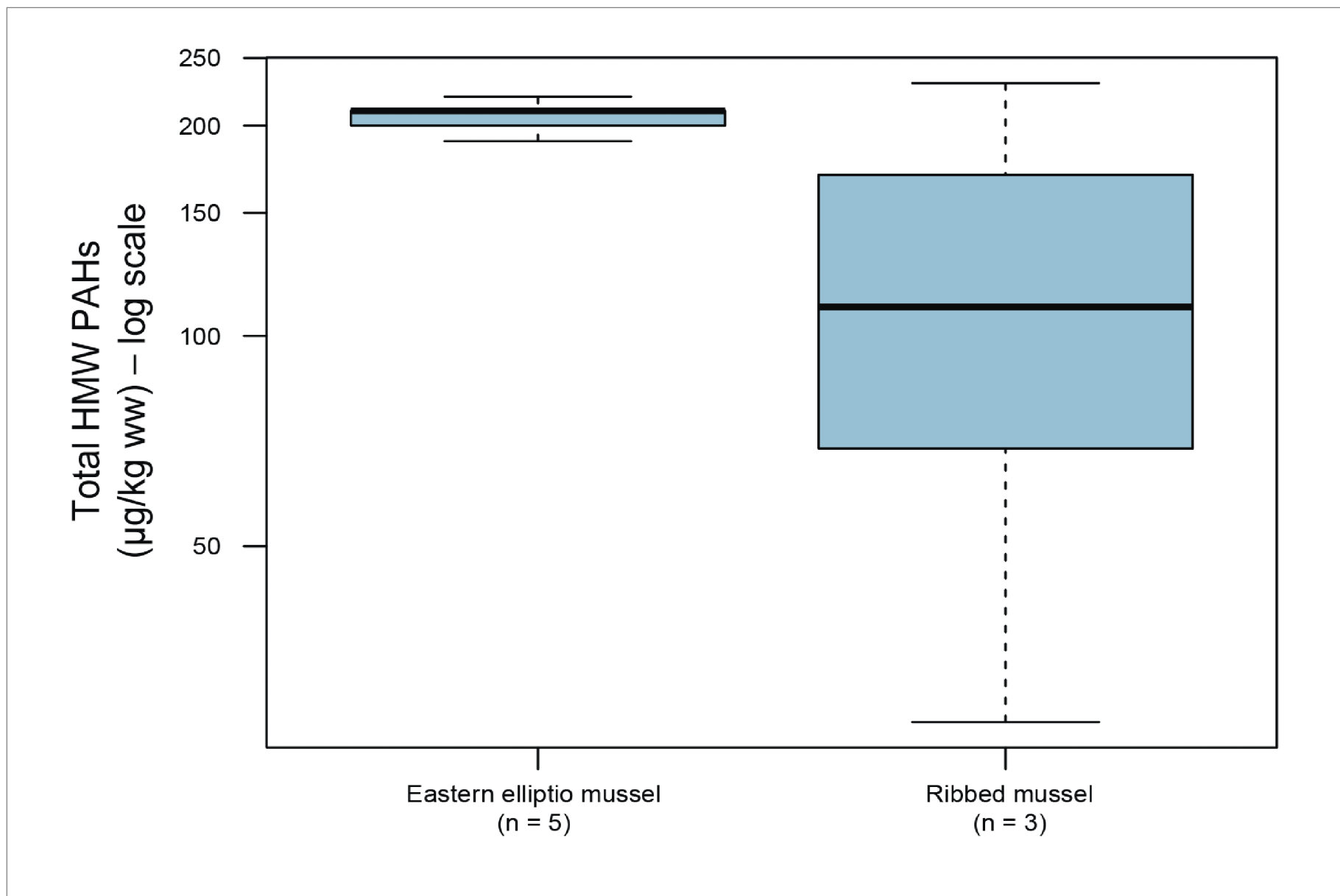
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Figure 5-14d
Box and Whisker Plots of HMW PAHs in LPRSA Bioaccumulation Worm Tissue Samples

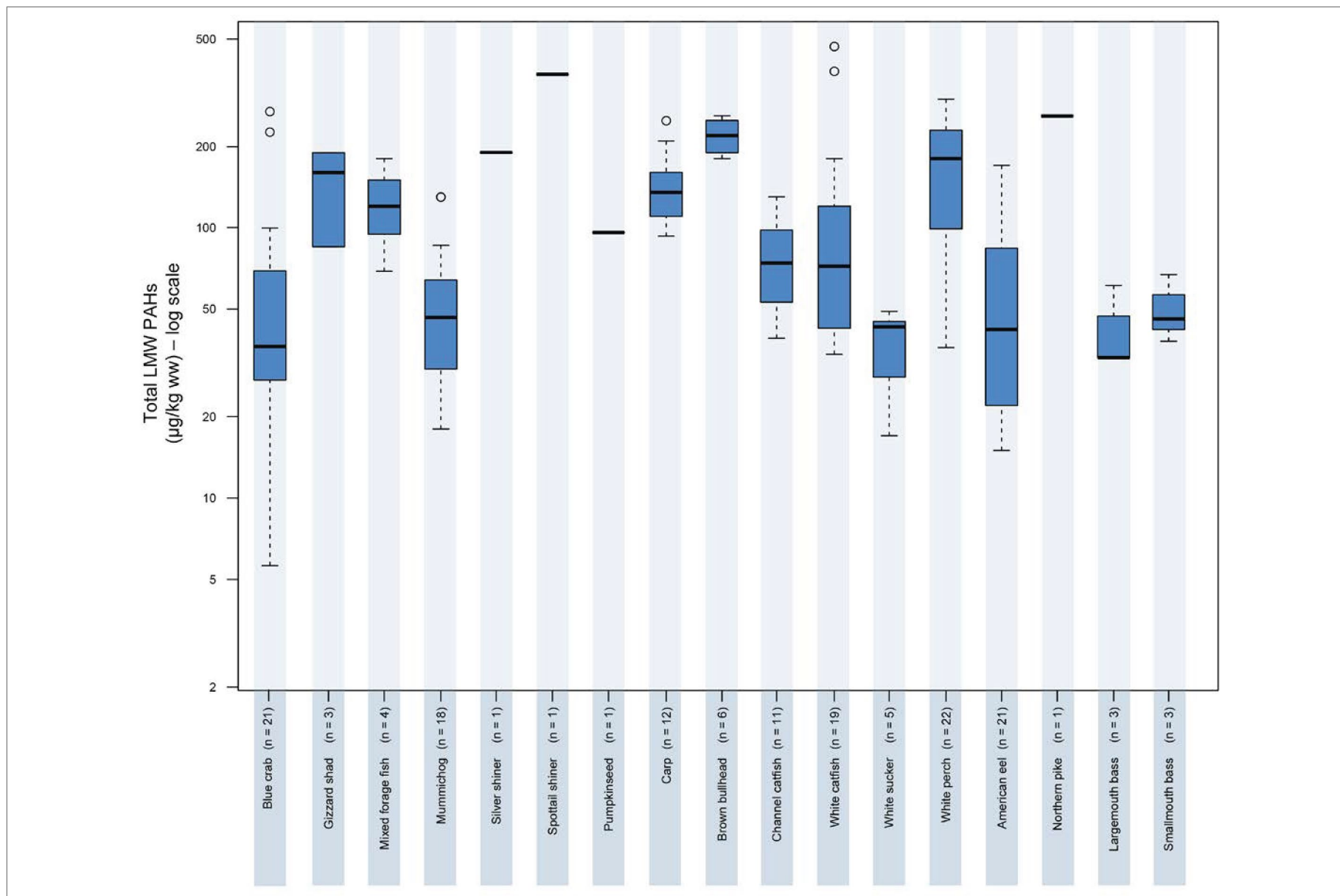
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Figure 5-14e
Box and Whisker Plots of HMW PAHs in LPRSA Caged Bivalve Tissue Samples

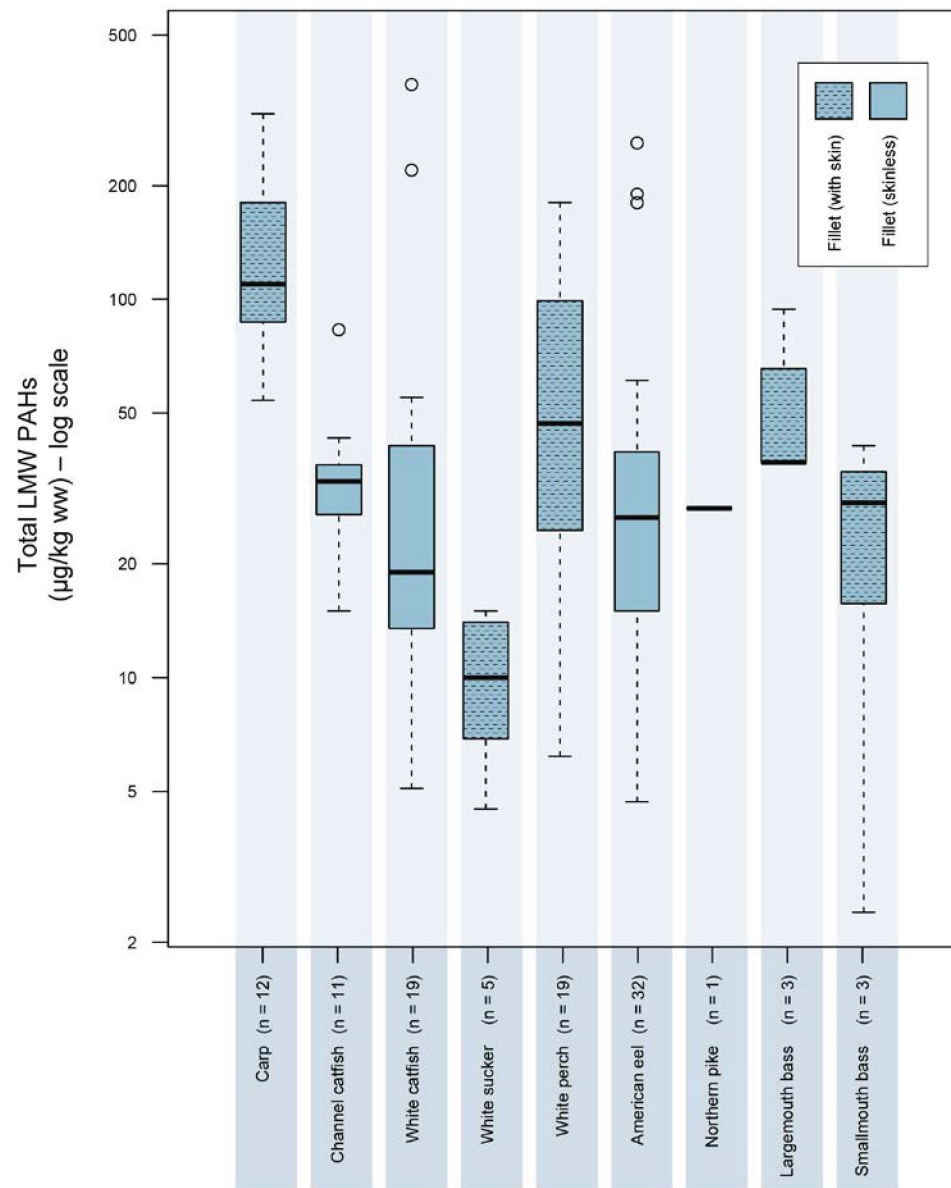
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Figure 5-15a
Box and Whisker Plots of LMW PAHs in LPRSA Crab and Fish Whole Body Tissue Samples

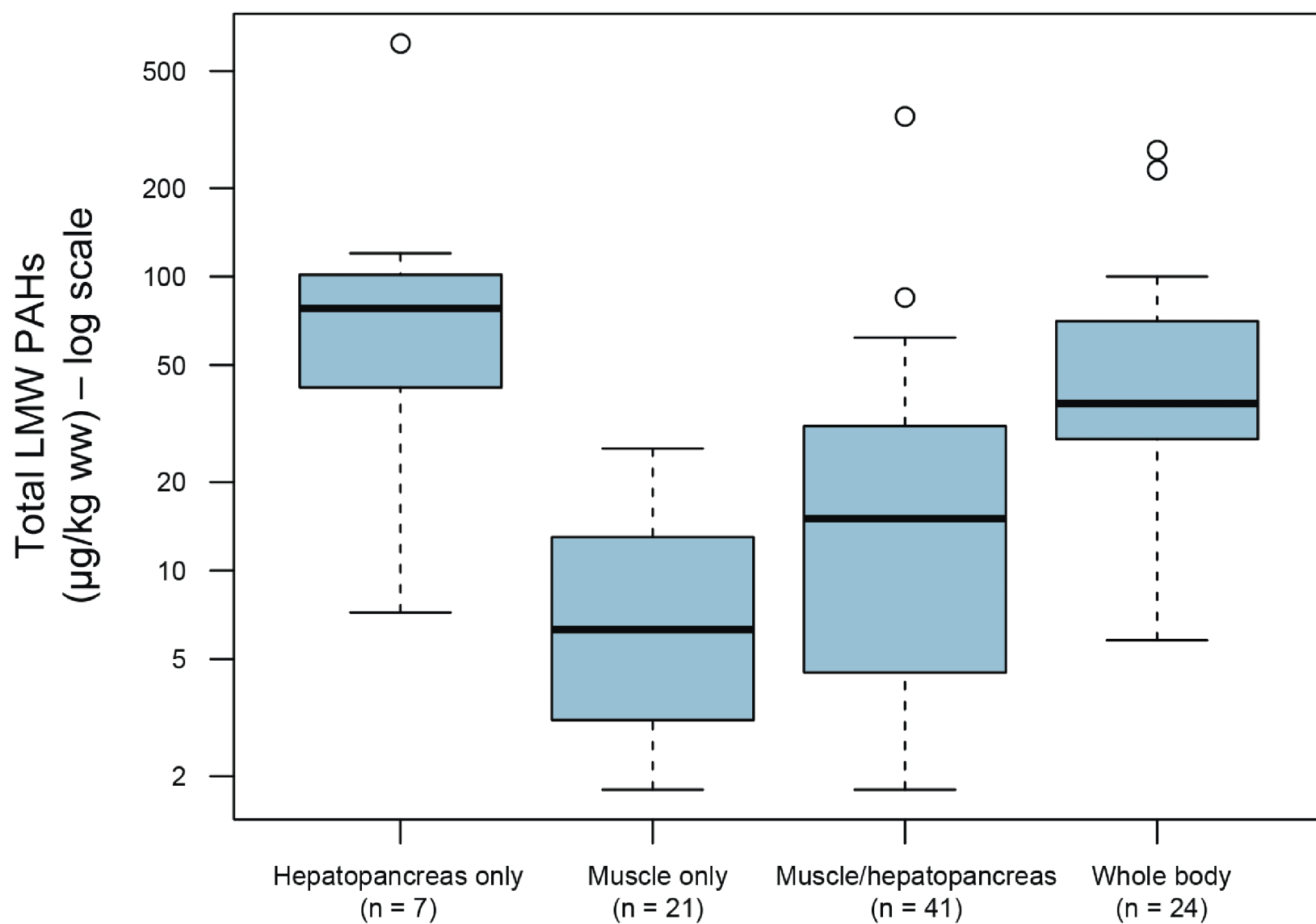
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Figure 5-15b
Box and Whisker Plots of LMW PAHs in LPRSA Fish Fillet Tissue Samples

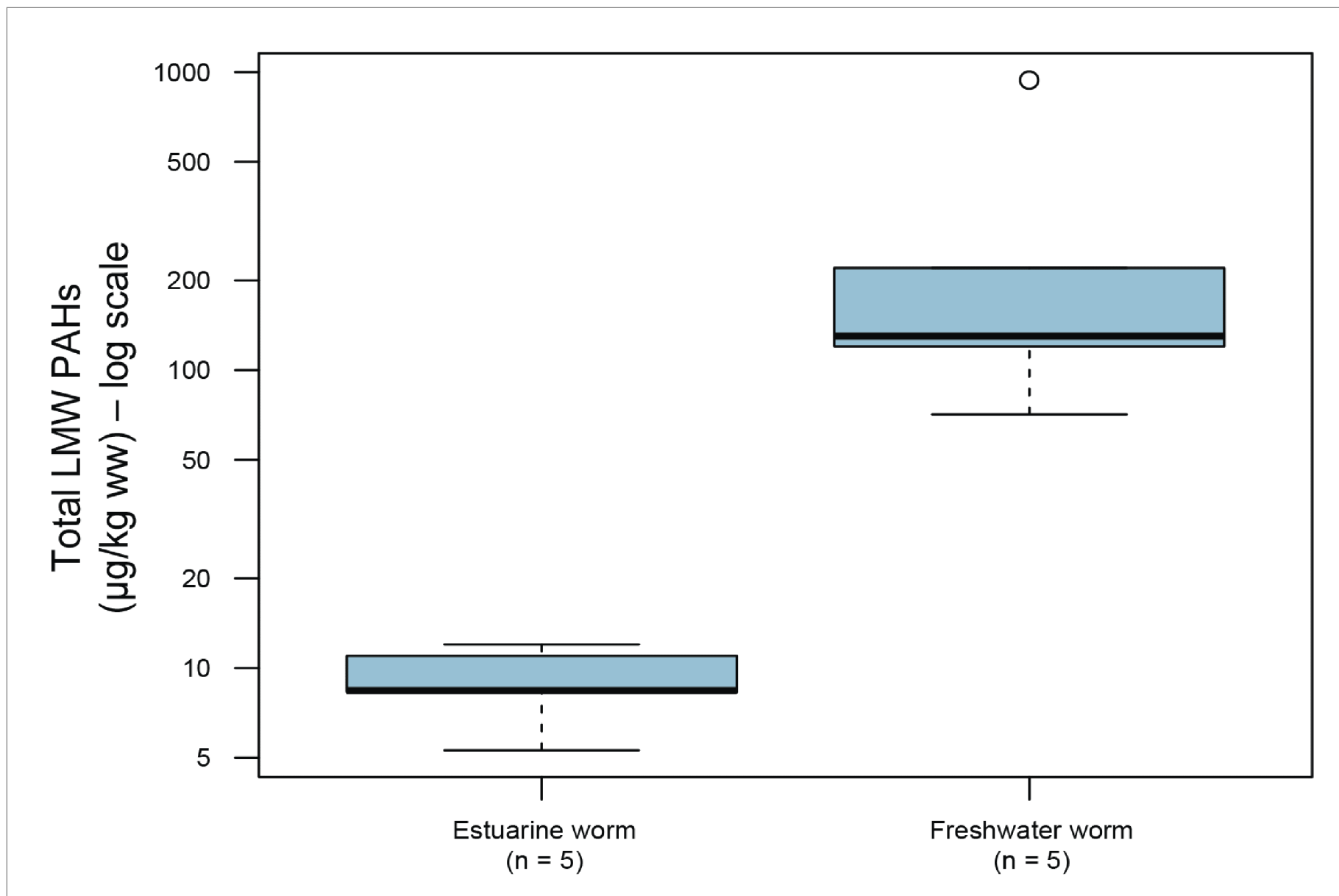
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Figure 5-15c
Box and Whisker Plots of LMW PAHs in LPRSA Blue Crab Bivalve Tissue Samples

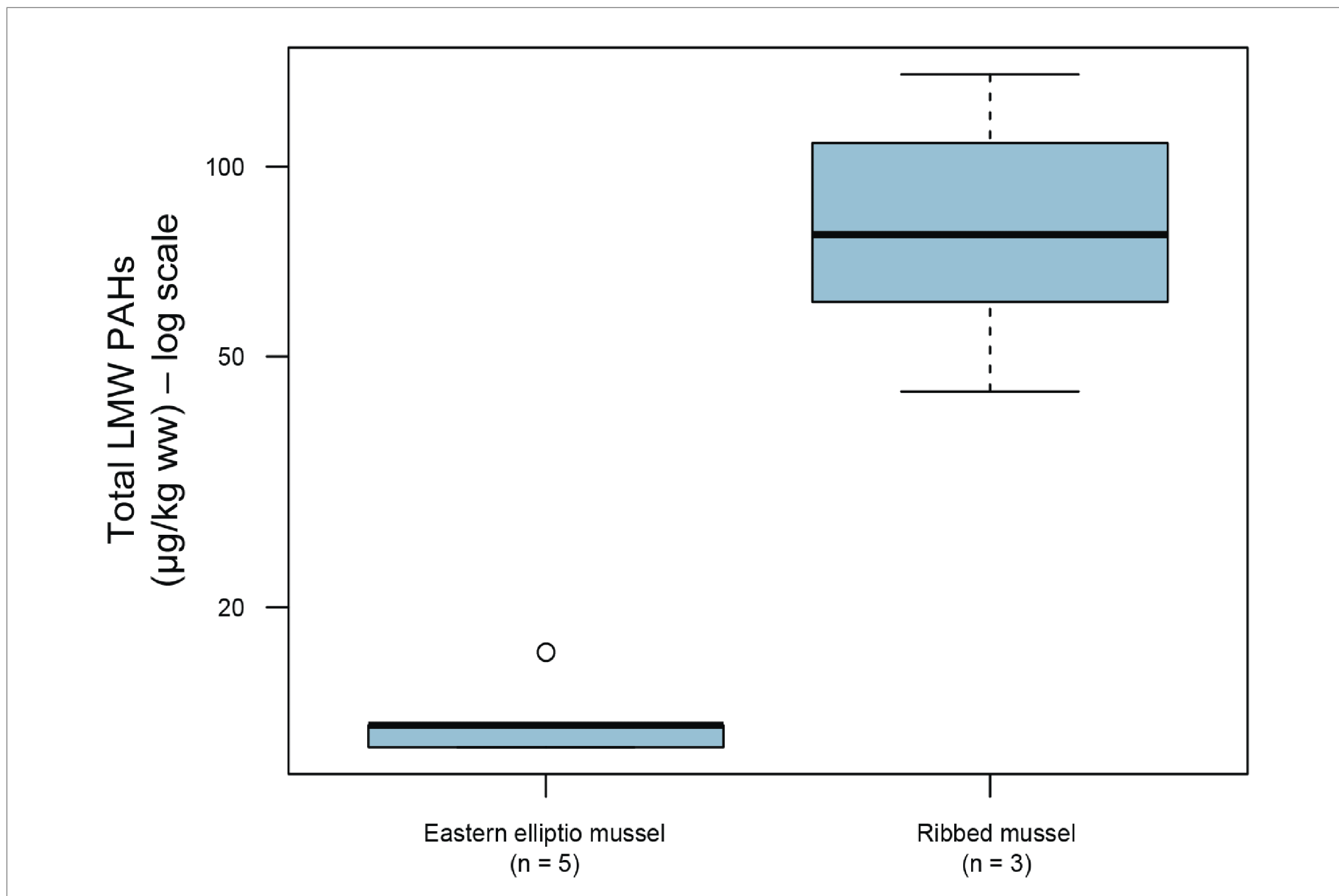
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Figure 5-15d
Box and Whisker Plots of LMW PAHs in LPRSA Bioaccumulation Worm Tissue Samples

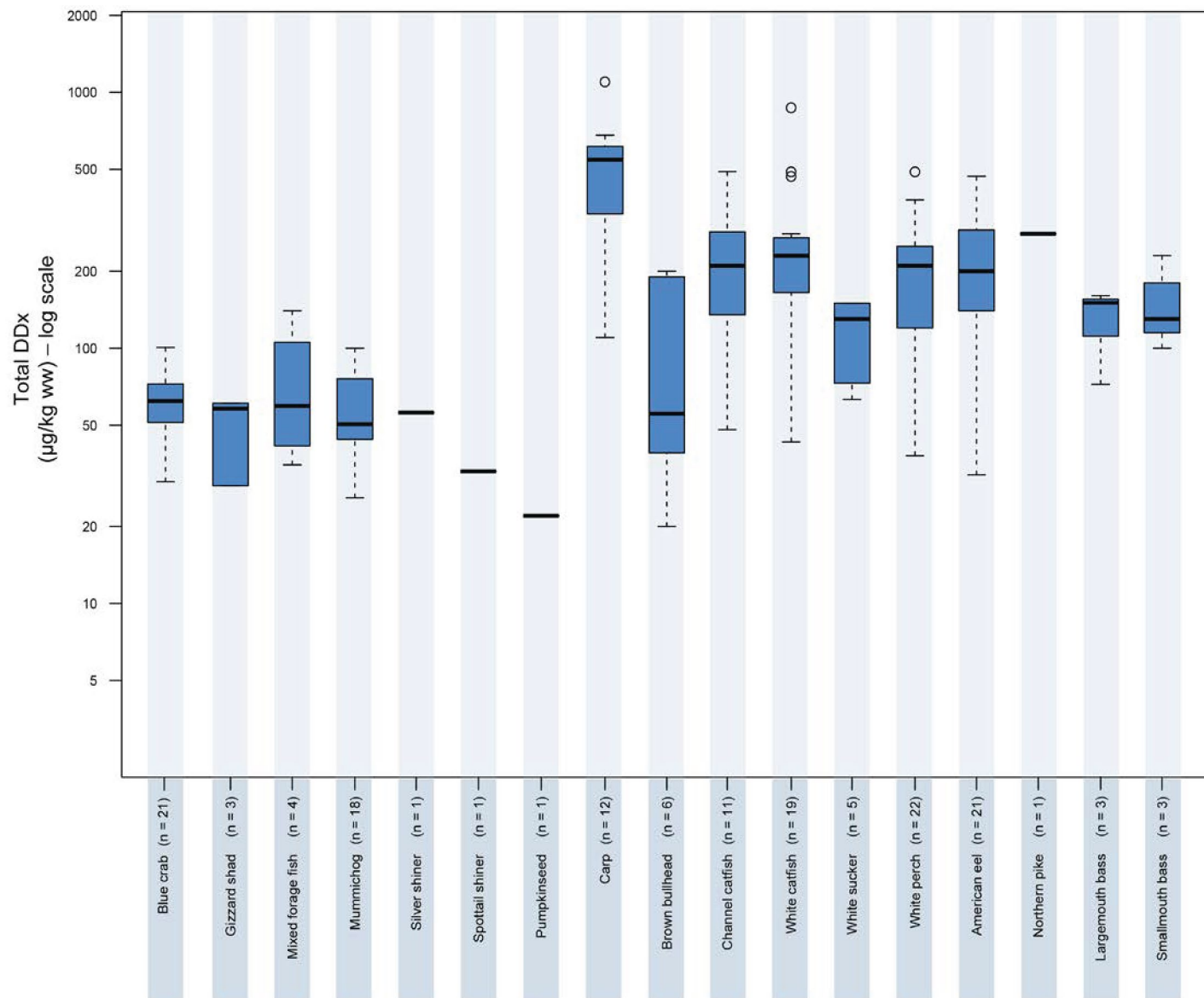
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Figure 5-15e
Box and Whisker Plots of LMW PAHs in LPRSA Caged Bivalve Tissue Samples

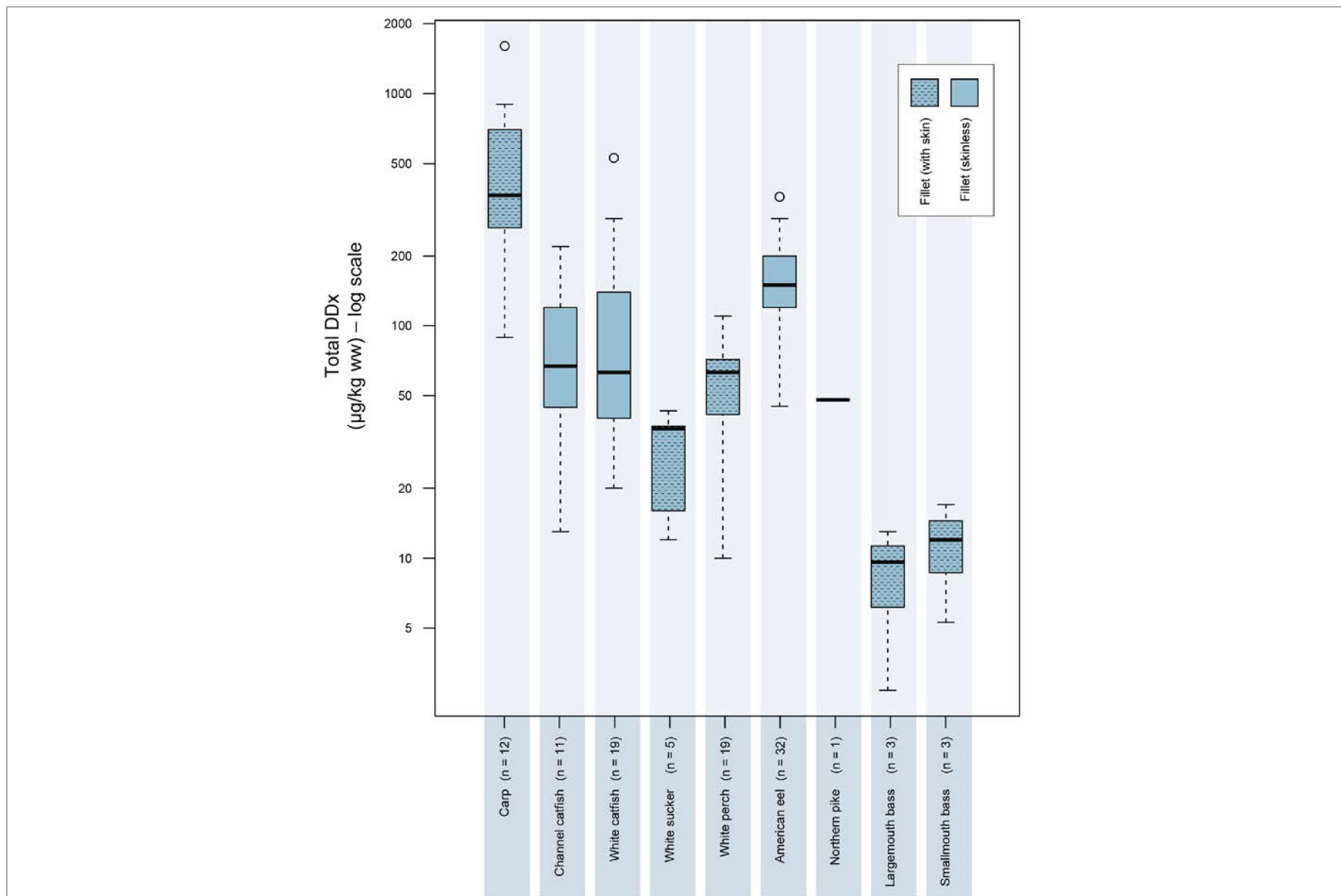
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Figure 5-16a
Box and Whisker Plots of Total DDx in LPRSA Crab and Fish Whole Body Tissue Samples

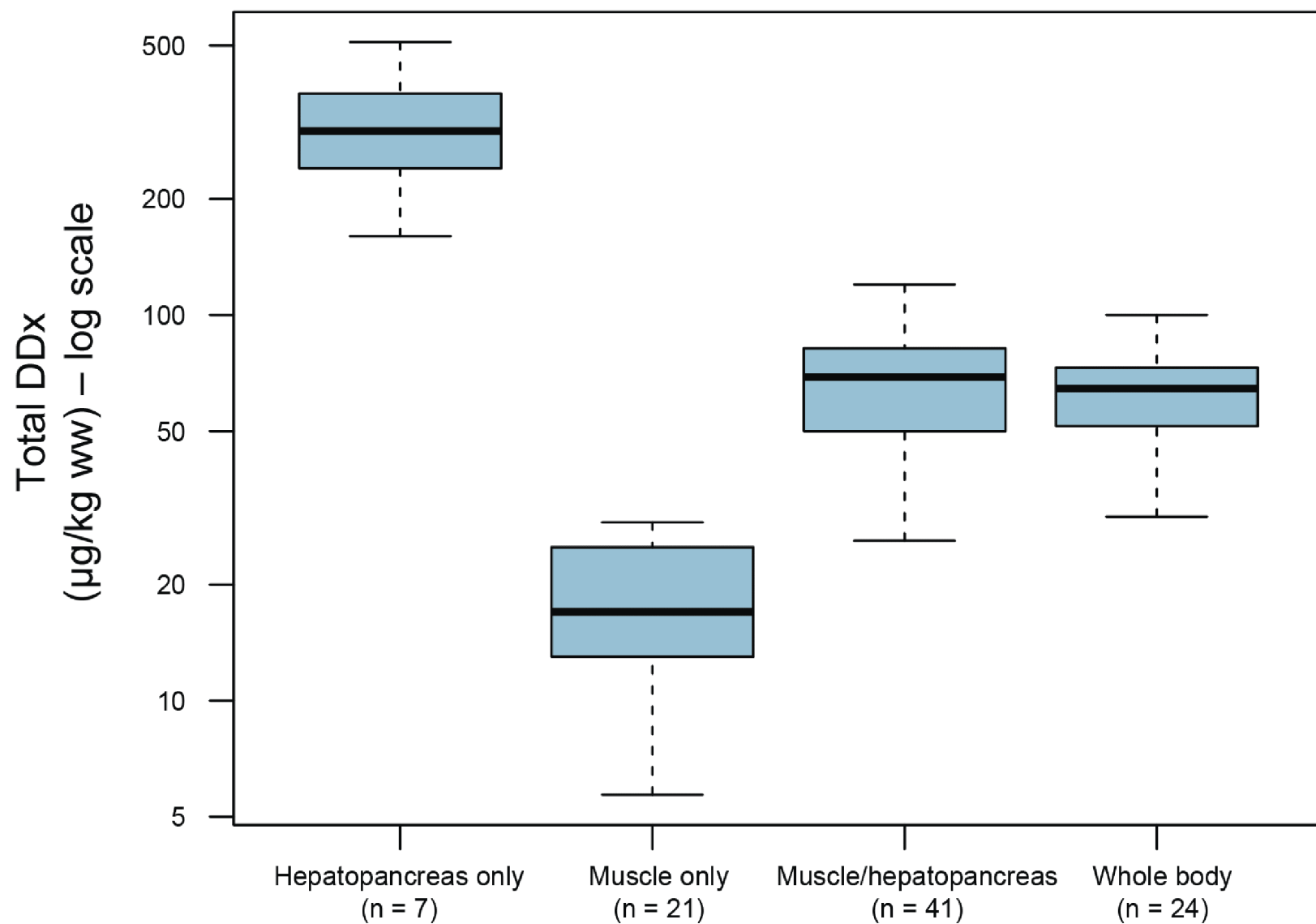
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Figure 5-16b
Box and Whisker Plots of Total DDx in LPRSA Fish Fillet Tissue Samples

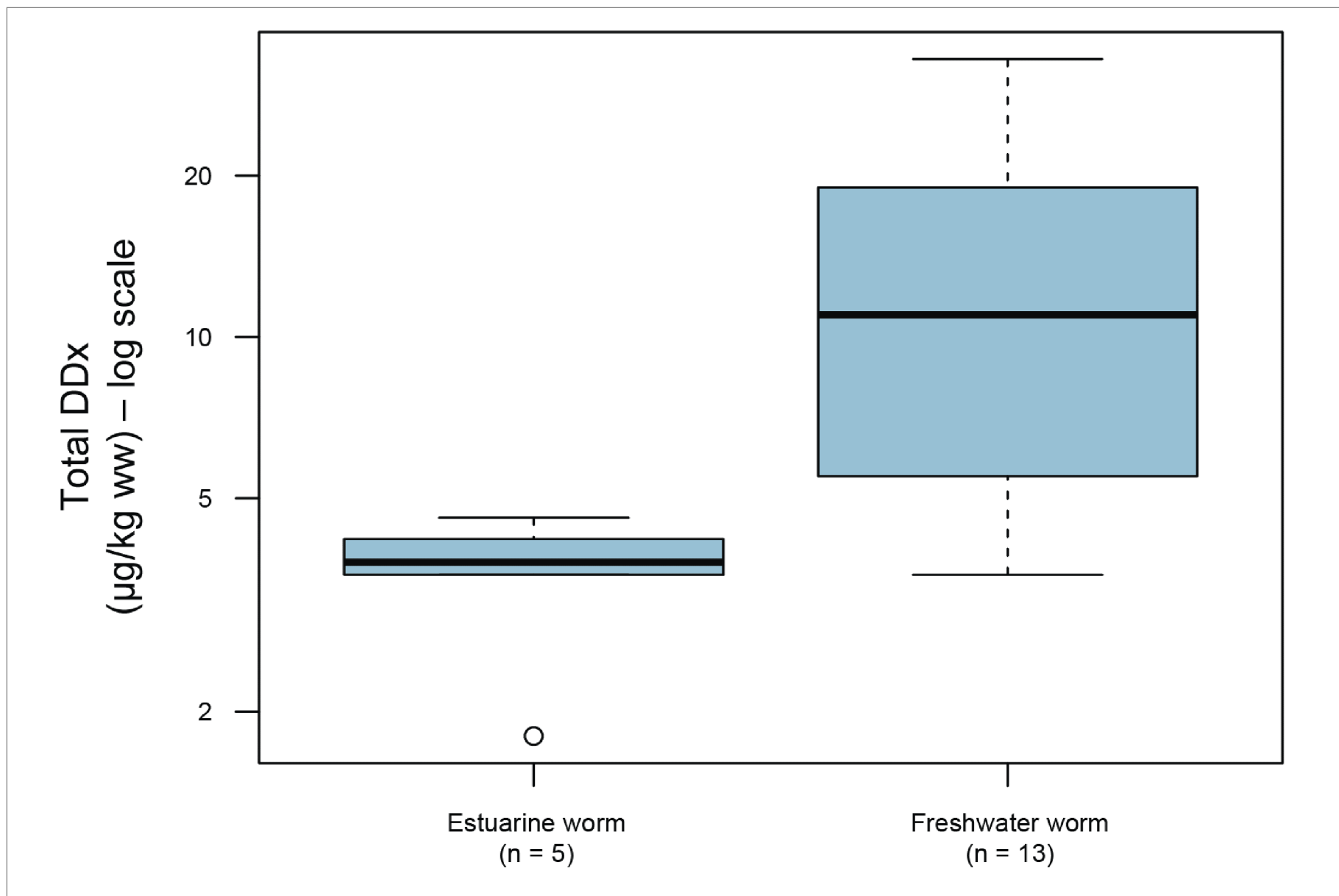
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Figure 5-16c
Box and Whisker Plots of Total DDX in LPRSA Blue Crab Bivalve Tissue Samples

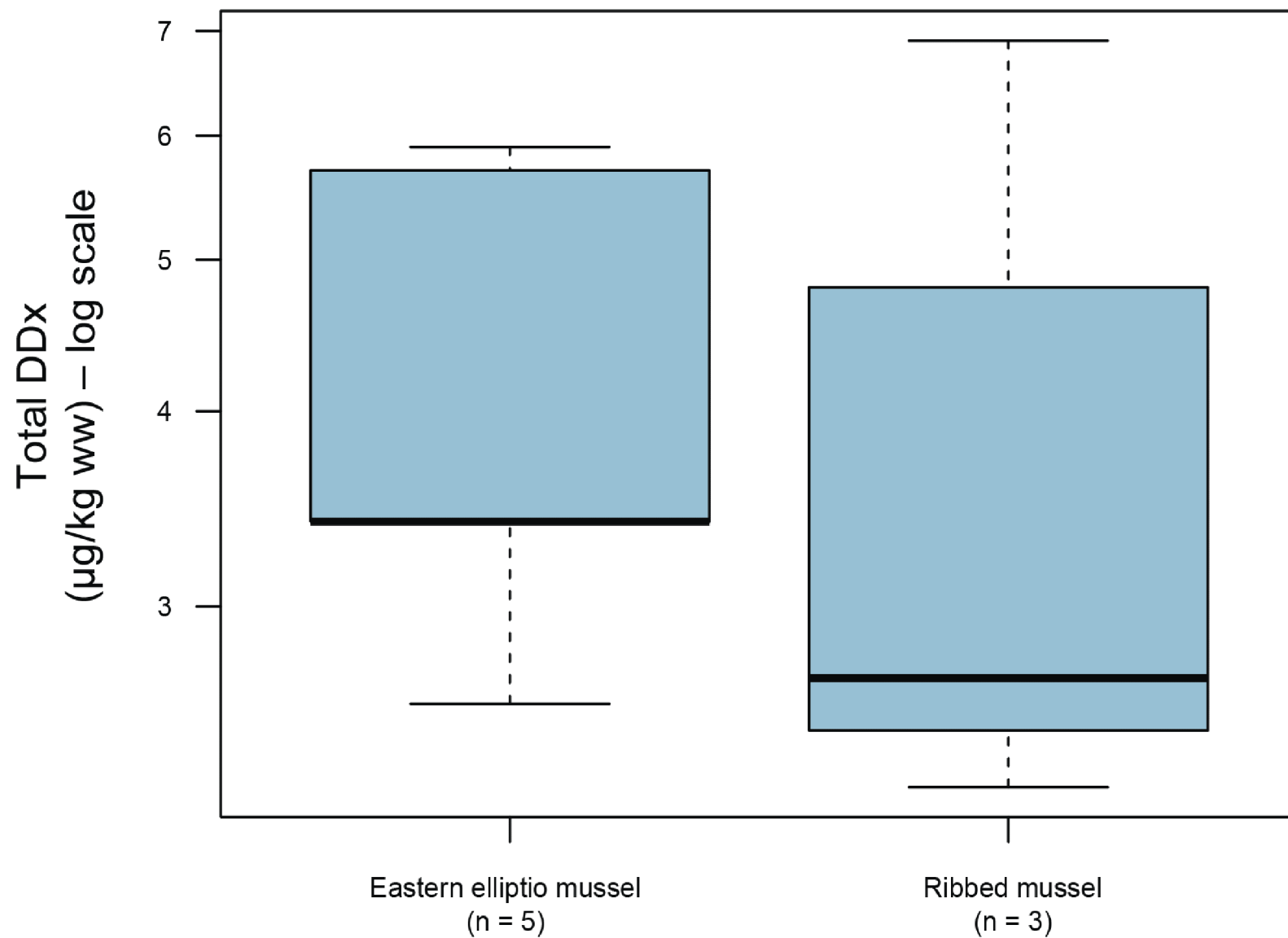
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Figure 5-16d
Box and Whisker Plots of Total DDx in LPRSA Bioaccumulation Worm Tissue Samples

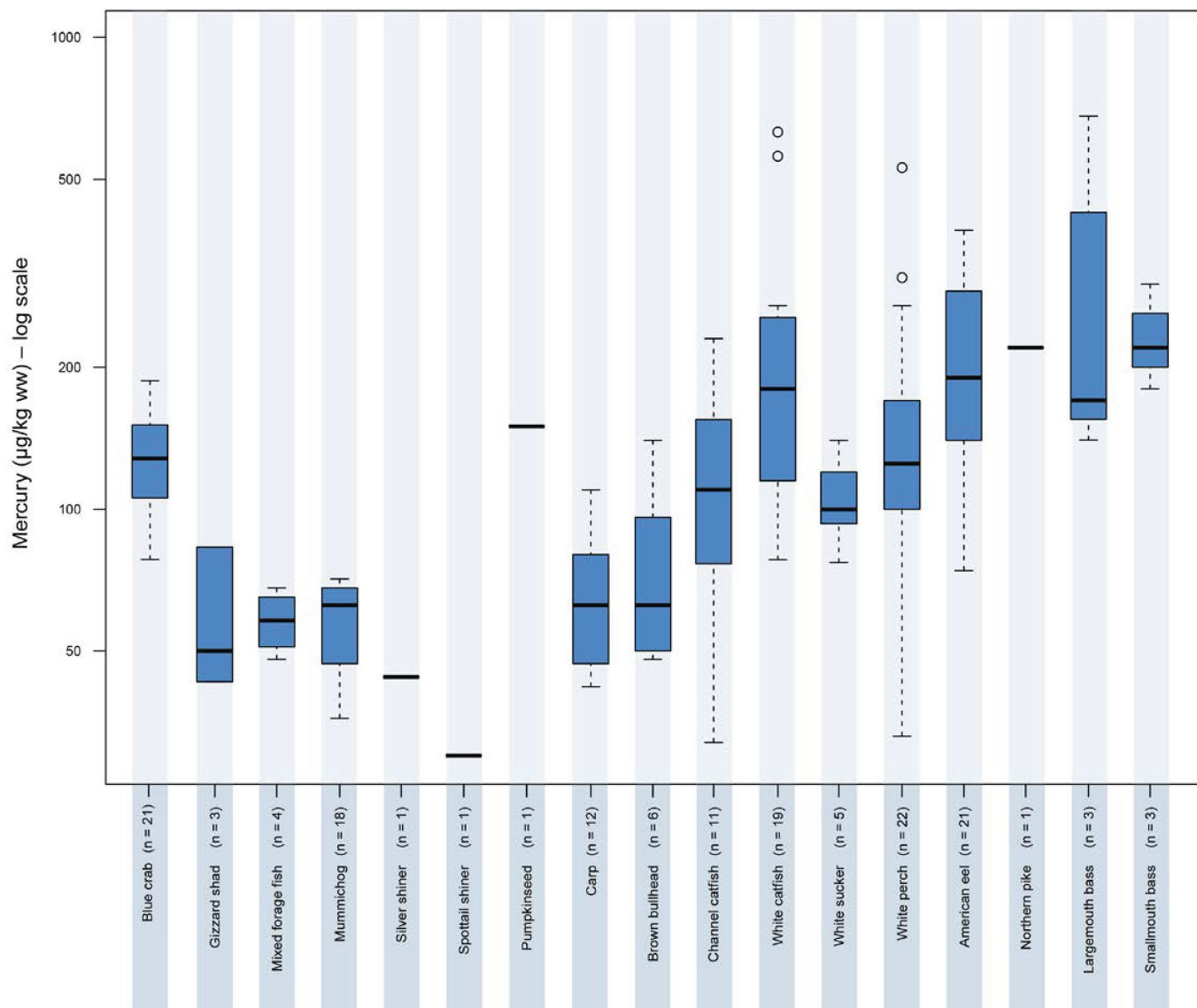
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Figure 5-16e
Box and Whisker Pots of Total DDX in LPRSA Caged Bivalve Tissue Samples

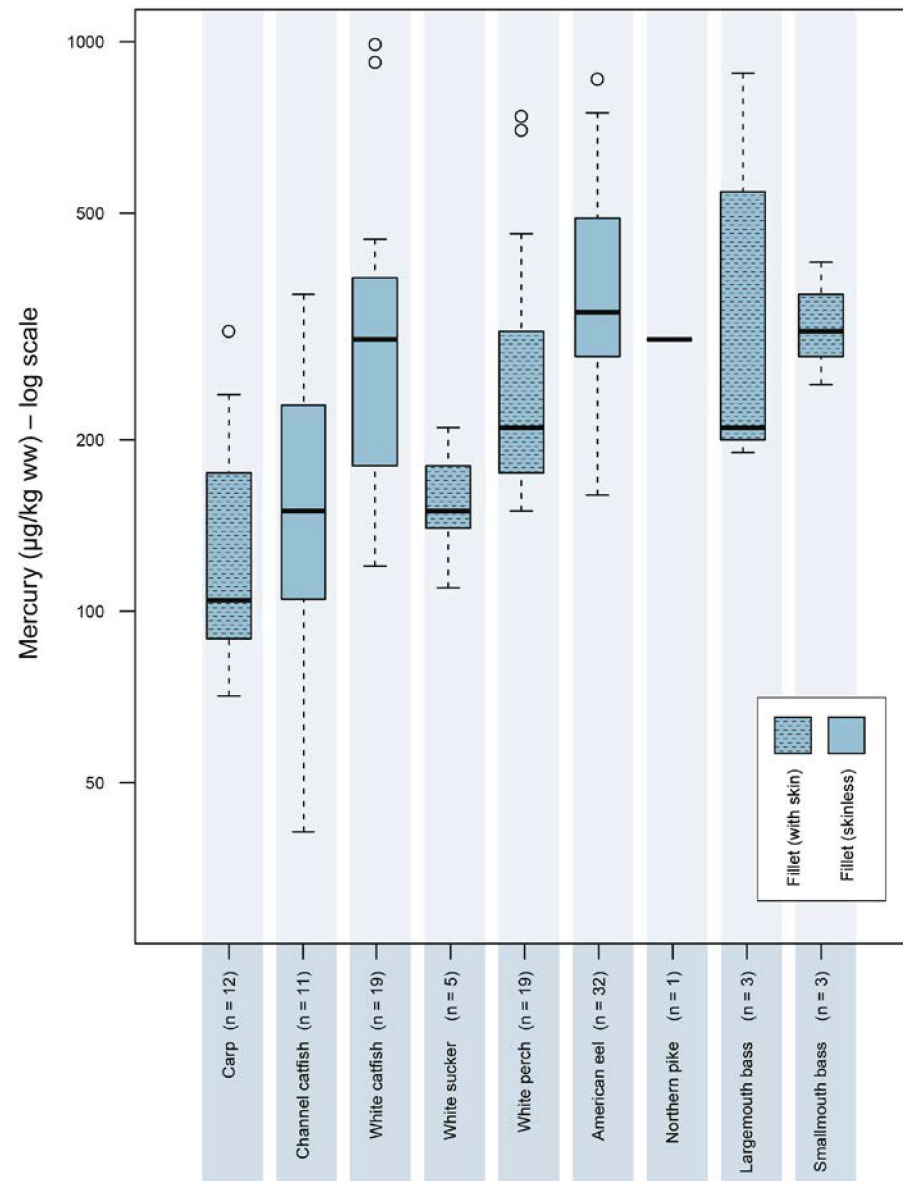
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Figure 5-17a
Box and Whisker Plots of Mercury in LPRSA Crab and Fish Whole Body Tissue Samples

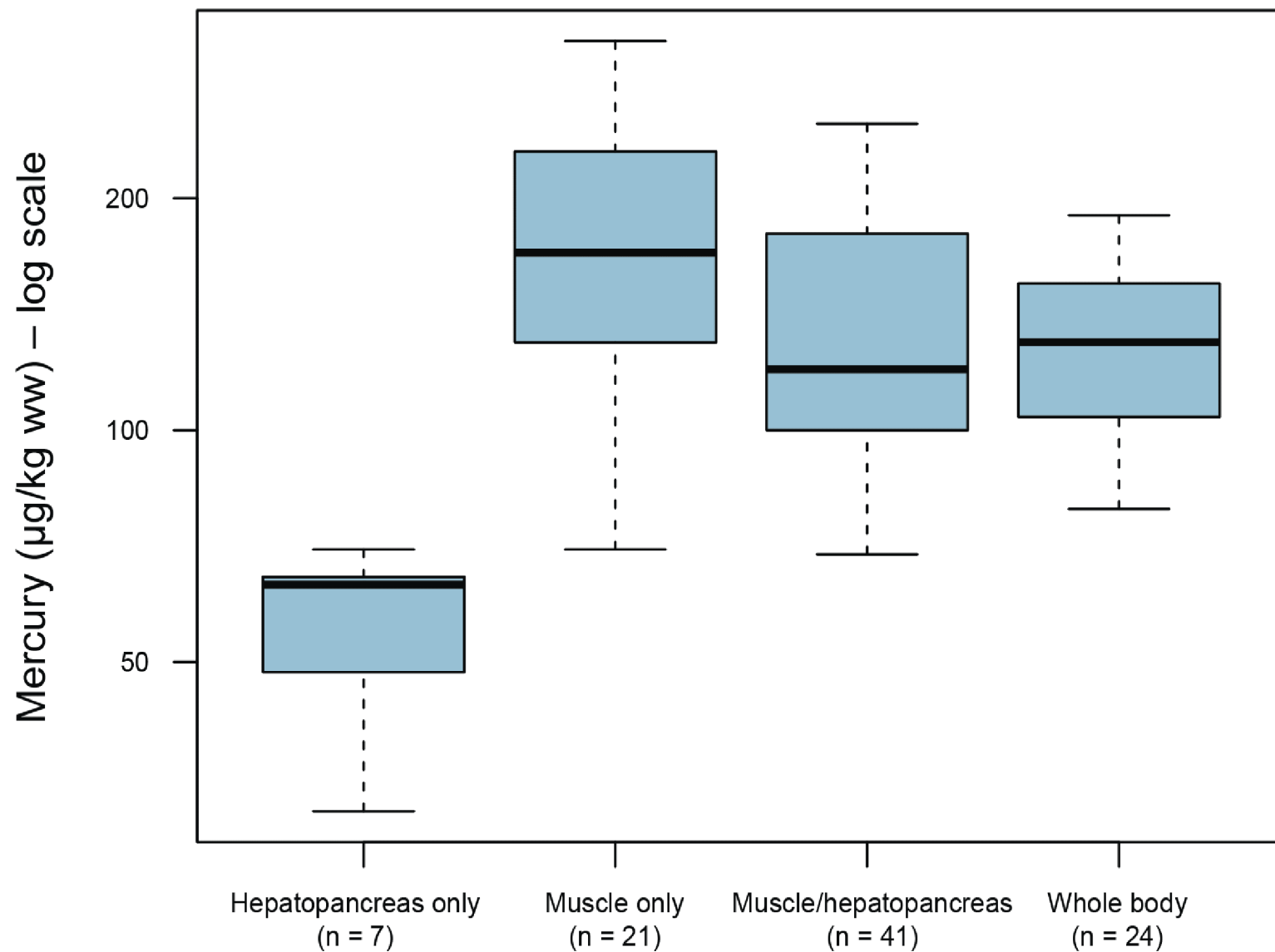
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Figure 5-17b
Box and Whisker Plots of Mercury in LPRSA Fish Fillet Tissue Samples

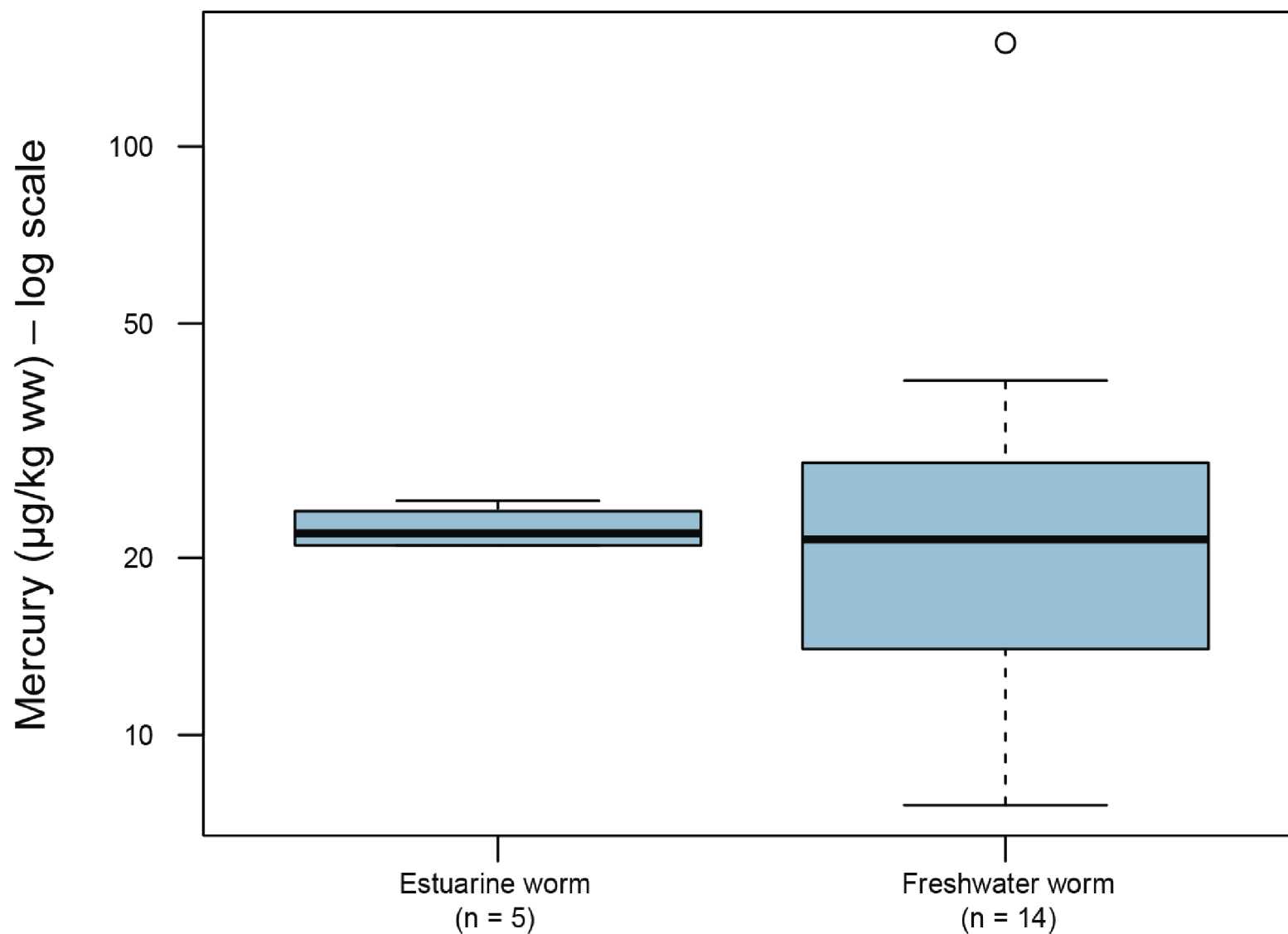
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Figure 5-17c
Box and Whisker Plots of Mercury in LPRSA Blue Crab Bivalve Tissue Samples

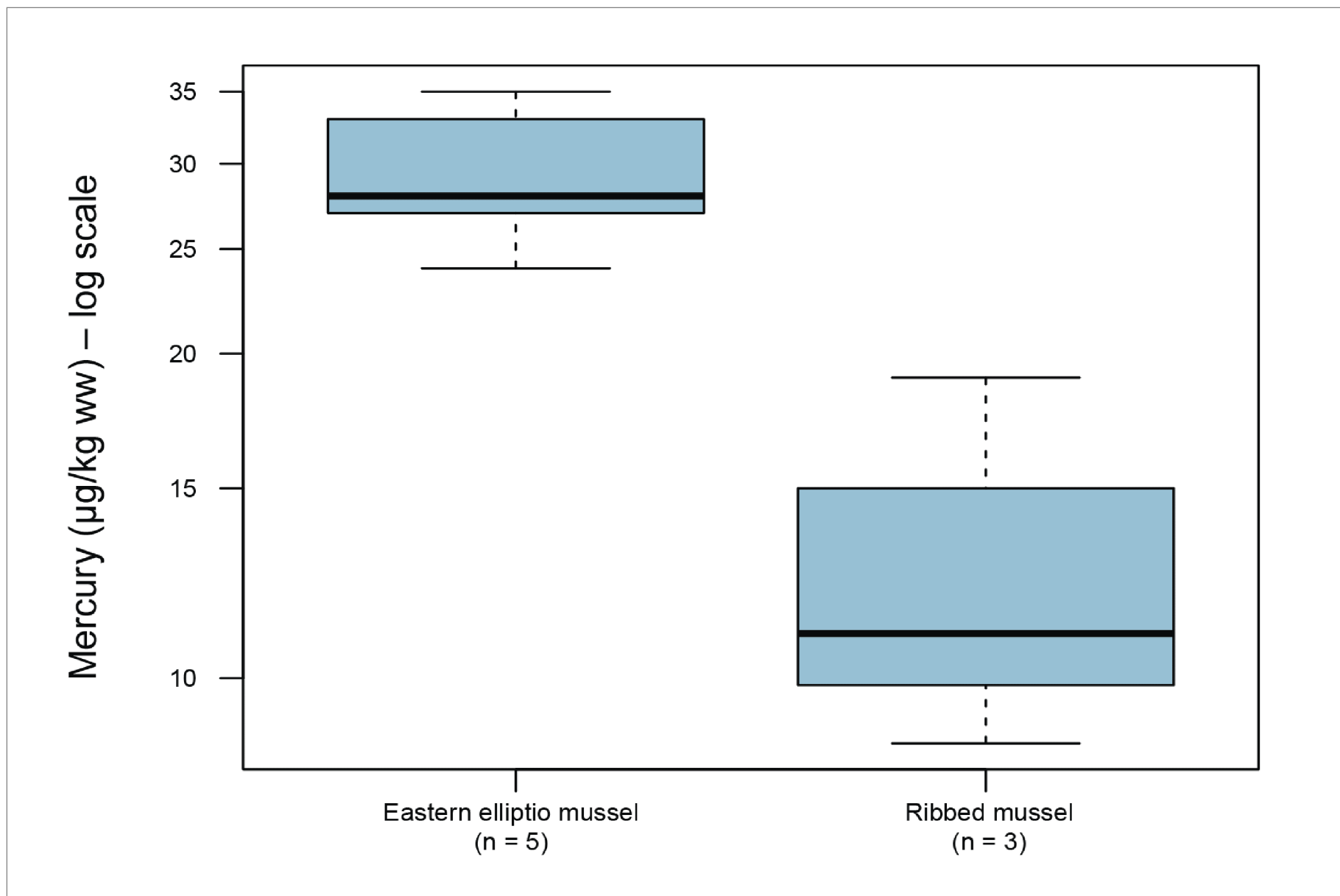
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Figure 5-17d
Box and Whisker Plots of Mercury in LPRSA Bioaccumulation Worm Tissue Samples

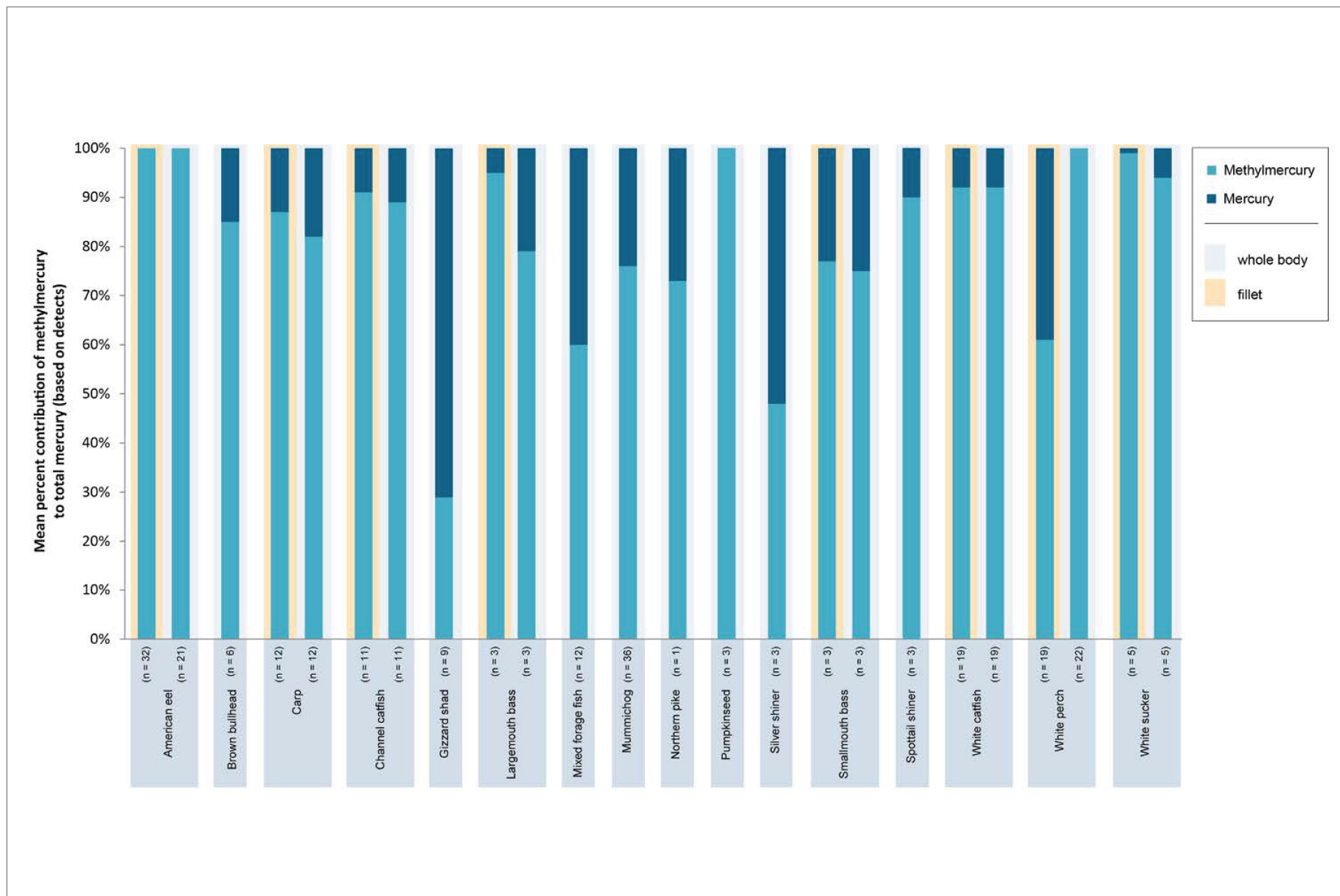
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Figure 5-17e
Box and Whisker Plots of Mercury in LPRSA Caged Bivalve Tissue Samples

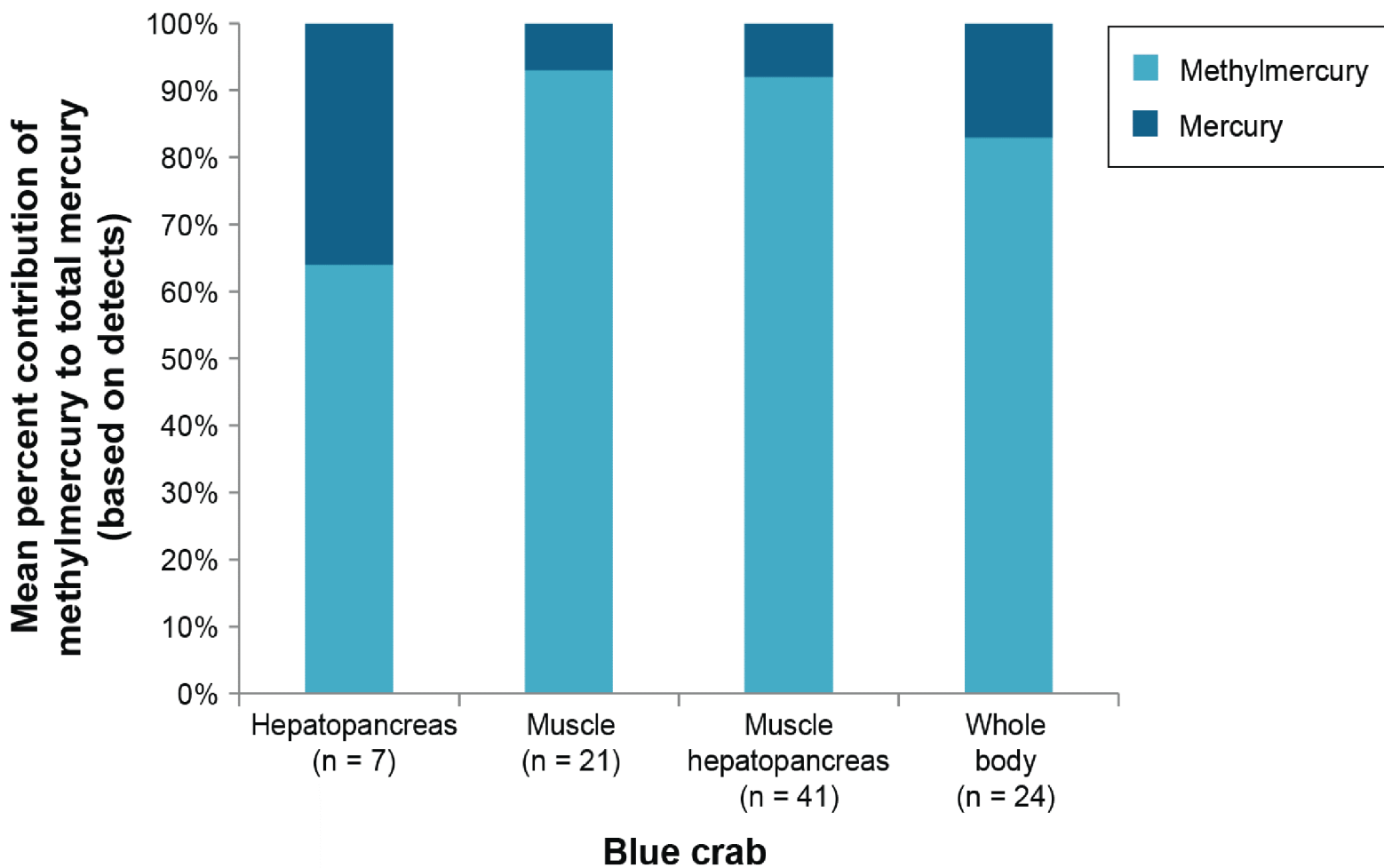
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Figure 5-18a
Mean Percent Contribution of Methylmercury to Total Mercury in LPRSA Fish Tissue

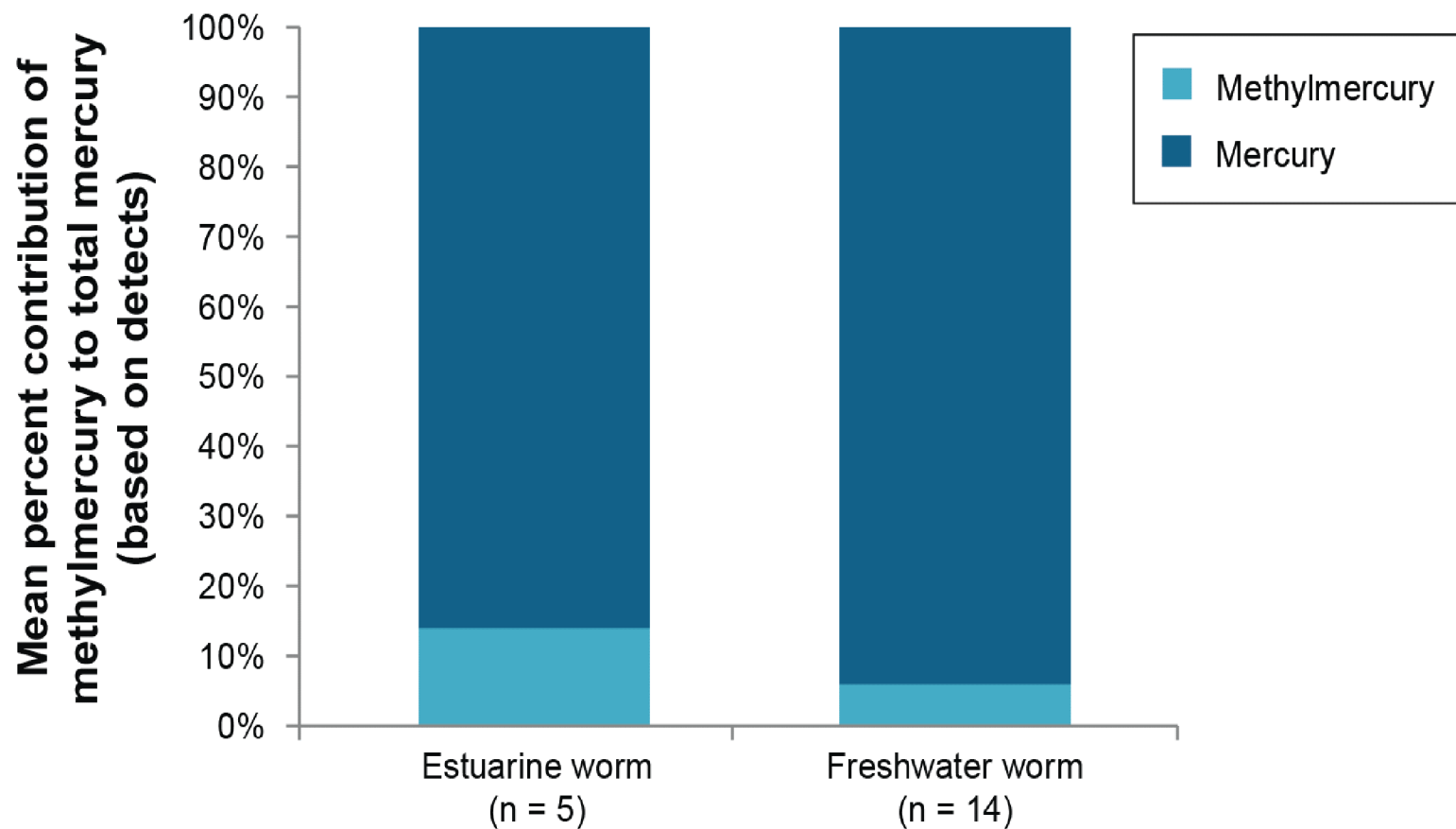
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Figure 5-18b
Mean Percent Contribution of Methylmercury to Total Mercury in Blue Crab LPRSA Tissue

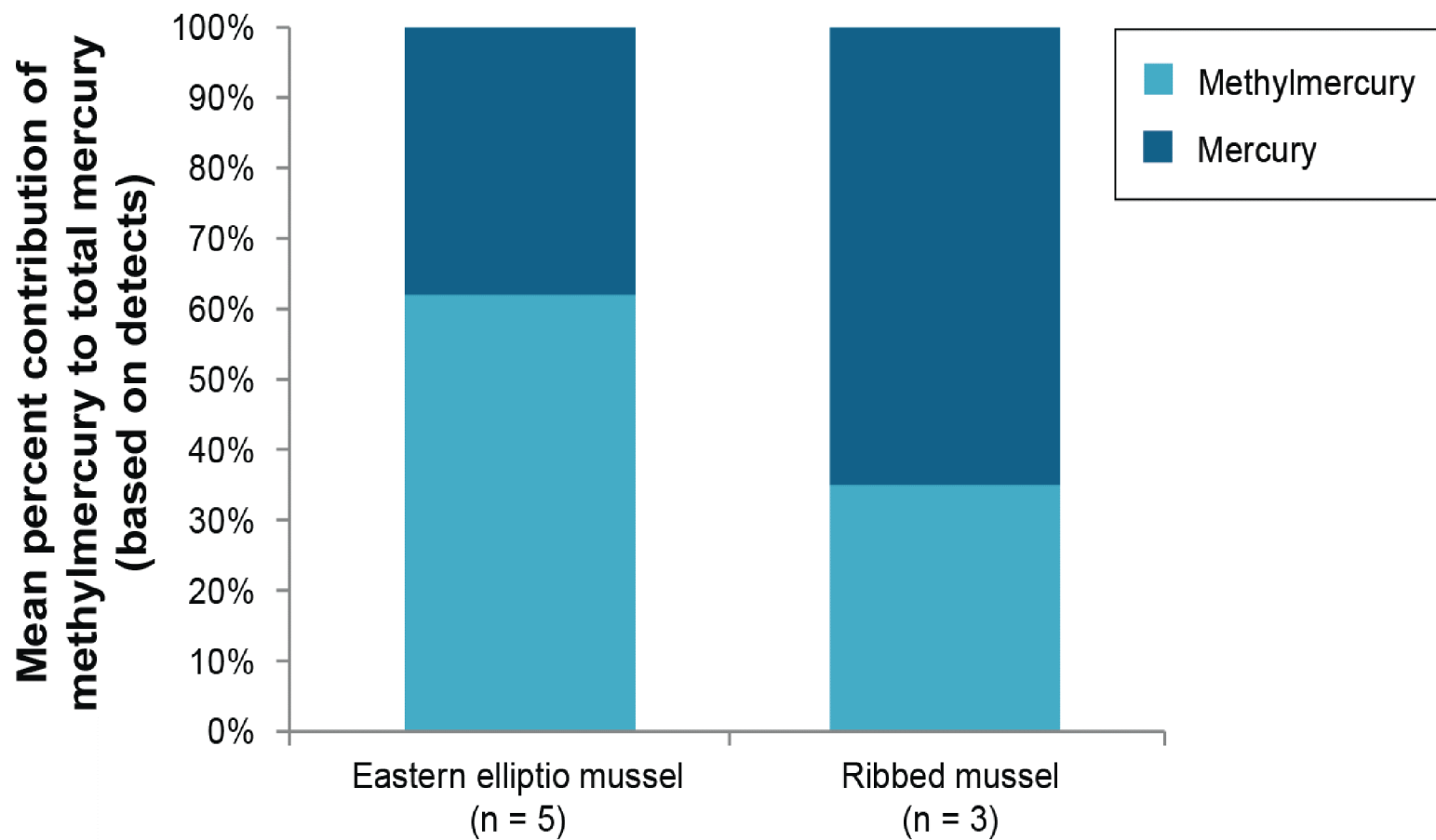
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Figure 5-18c
Mean Percent Contribution of Methylmercury to Total Mercury in Bioaccumulation Worm LPRSA Tissue

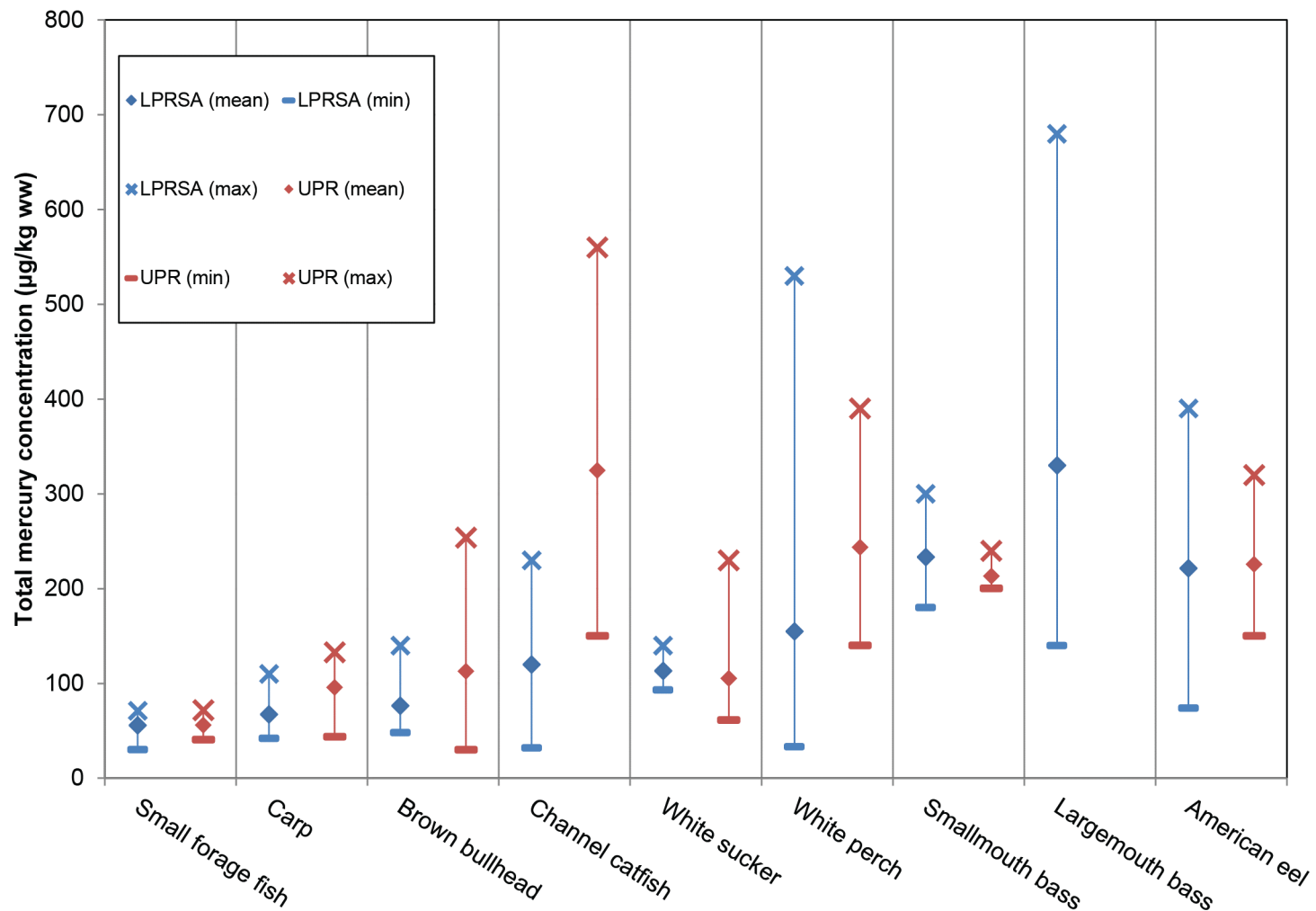
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Figure 5-18d
Mean Percent Contribution of Methylmercury to Total Mercury in Caged Bivalve LPRSA Tissue

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Note: No UPR data are available for largemouth bass.

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Figure 5-19
Comparison of LPRSA and UPR Whole Body Fish Tissue Concentrations of Total Mercury

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