

MATERIAL SUPLEMENTARIO / SUPPLEMENTARY MATERIAL

Supplementary material article: Metal concentrations
in *Isognomon alatus* by stages and climatic seasons
in San Andrés Island, Colombian Caribbean

Material suplementario artículo: Concentraciones de metales
en estadios adultos y juvenil de la ostra *Isognomon alatus*,
a través de épocas climáticas (seca, transición, lluvia) en
ecosistemas de manglar de San Andrés Isla, Caribe colombiano

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Table S1. Comparisons of mean metal concentrations in the biological reference material (NRC, Canada TORT-1, lobster hepatopancreas) (micrograms per gram dry weight $\mu\text{g/gdw}$) with the results of this study along with data on the blanks and the limit of detection (LOD).

Metal	Cd	Cu	Zn
NRC certified value	26.3 $\pm$ 0.14	177 $\pm$ 0.5	439 $\pm$ 1.1
This study	25.16 $\pm$ 2.36	144.78 $\pm$ 5.77	339.68 $\pm$ 22.47
Recovery [%]	95.7	85	90
LOD	0.016	0.019	0.12
Blank*	0.014	0.016	0.11

* Expressed as a mean value. n=8 ($\mu\text{g. mL}^{-1}$)

Table S2. Temperature and salinity of the rainy and the dry season in San Andres Island.

	Temperature ($^{\circ}\text{C}$)		Salinity (UPS)	
	Rainy 2009	Dry 2010	Rainy 2009	Dry 2010
E1	24.23 $\pm$ 1.50	24.83 $\pm$ 1.50	32.23 $\pm$ 0.30	34.70 $\pm$ 0.10
E2	26.70 $\pm$ 0.20	24.70 $\pm$ 1.50	33.53 $\pm$ 0.20	34.67 $\pm$ 0.30
E3	26.70 $\pm$ 0.20	26.07 $\pm$ 1.16	34.50 $\pm$ 0.10	34.67 $\pm$ 0.37

Table S3. Univariate tests to analyze factorial ANOVA ($p>0.05$) comparing the concentration of Cd, Cu and Zn in soft tissue of *I. alatus* and BCF with respect to age (adults and juveniles), sites (E1 and E2) and climatic seasons (rainy and dry) considering the rank transformation of the data. SS: Sum of Squares, MS: Mean Square.

	Cd					BCF-Cd				
	SS	Degr. Of Freedom	MS	F ratio	p-value	SS	Degr. Of Freedom	MS	F ratio	p-value
Intercept	11008.17	1	11008.17	211.87	0.0000	7776.00	1	7776.00	931.96	0.0000
Season	1066.67	1	1066.67	20.53	0.0003	228.17	1	228.17	27.35	0.0001
Age	468.17	1	468.17	9.01	0.0084	60.17	1	60.17	7.21	0.0163
“Season”*“Age”	266.67	1	266.67	5.13	0.0377	6.00	1	6.00	0.72	0.4089
Site (Season*Age)	1519.00	4	379.75	7.31	0.0015	3571.67	4	892.92	107.02	0.0000
Error	831.33	16	51.96			133.50	16	8.34		
Cu						BCF-Cu				
Intercept	20680.01	1	20680.01	412.48	0.0000	9009.37	1	9009.37	466.00	0.0000
Season	2470.51	1	2470.51	49.28	0.0000	3151.04	1	3151.04	162.98	0.0000
Age	0.26	1	0.26	0.01	0.9434	0.67	1	0.67	0.03	0.8550
“Season”*“Age”	12.76	1	12.76	0.25	0.6208	2.67	1	2.67	0.14	0.7152
Site (Season*Age)	155.04	4	38.76	0.77	0.5585	1739.42	4	434.85	22.49	0.0000
Error	802.17	16	50.14			309.33	16	19.33		
Zn						BFC-Zn				
Intercept	15453.37	1	15453.37	193.7727	0.000000	13113.38	1	13113.38	162.56	0.0000
Season	672.04	1	672.04	8.4269	0.010378	4455.37	1	4455.37	55.23	0.0000
Age	2838.38	1	2838.38	35.5909	0.000020	408.37	1	408.37	5.06	0.0389
“Season”*“Age”	135.37	1	135.37	1.6975	0.211057	18.38	1	18.38	0.23	0.6396
Site (Season*Age)	523.83	4	130.96	1.6421	0.212411	28.83	4	7.21	0.09	0.9845
Error	1276.00	16	79.75			1290.67	16	80.67		