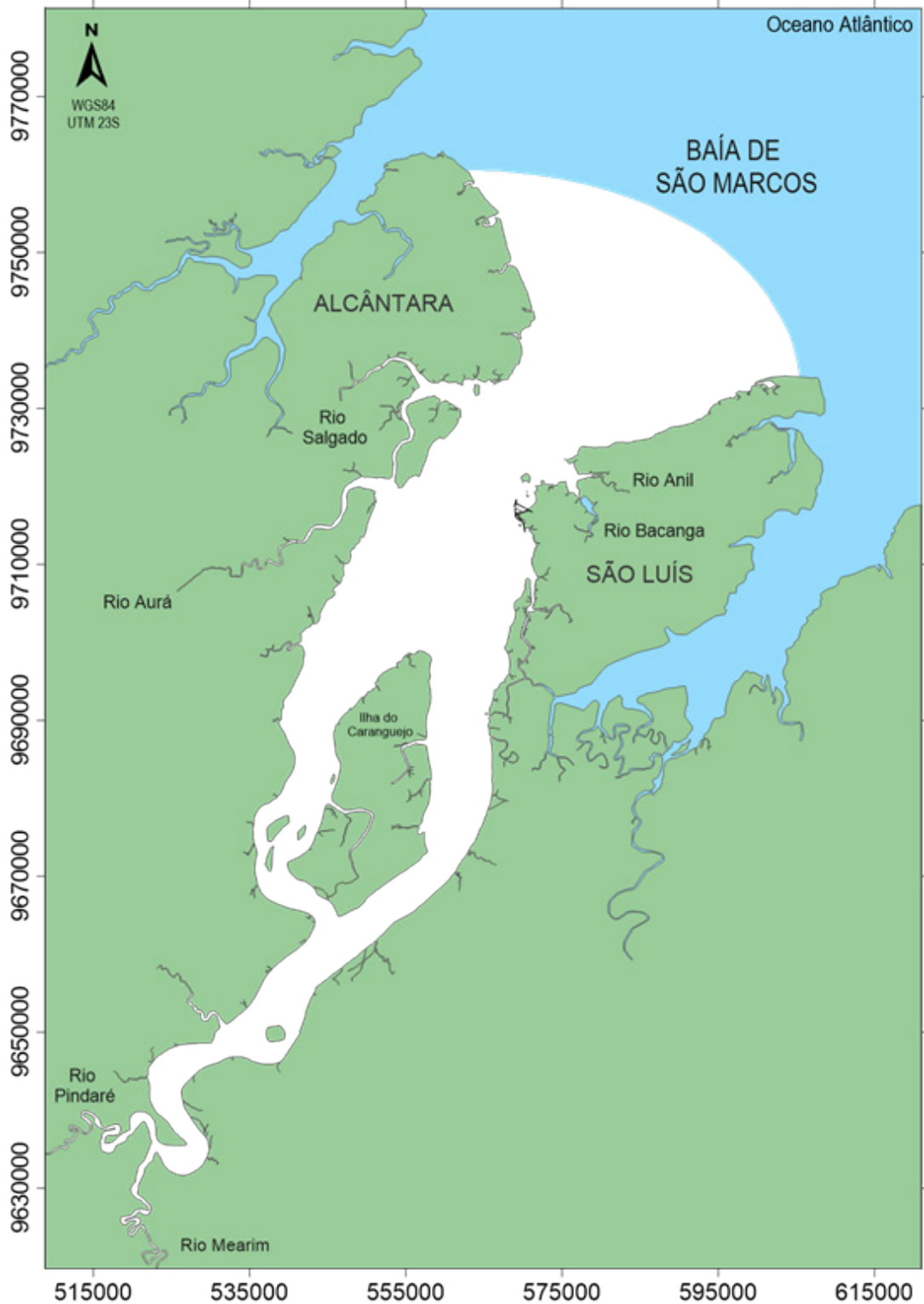
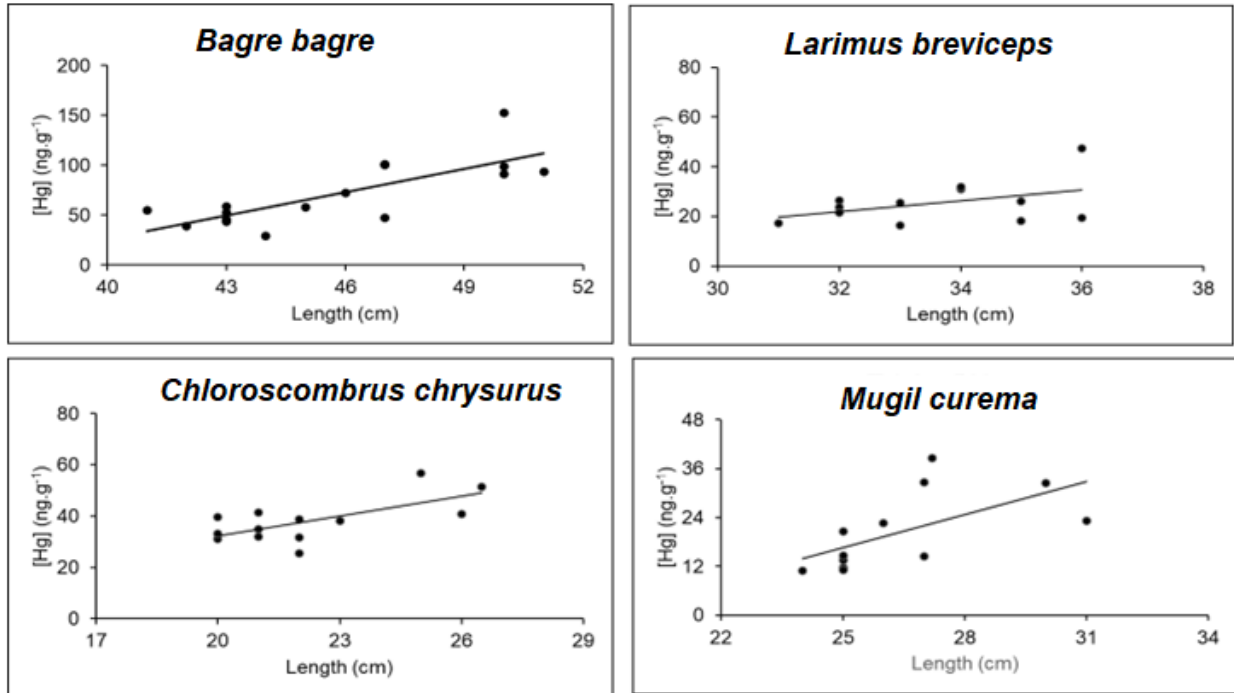


SUPPLEMENTARY MATERIAL

Figure S1. Map depicting the major geophysical aspects of São Marcos Bay, in Maranhão State, Northeastern Brazil.



**Figure S2.** Relationship between Hg concentrations and fish length of commercialized species from the São Luis Marquet, in Maranhão State, Northeastern Brazil.



**Table S1.** Validation of the methods by simultaneous analysis of certified reference material (Mussel Tissue ERM-CE 278K) with certified Hg concentration of 601 ng.g<sup>-1</sup>.

Sample	Hg (ng.g <sup>-1</sup> )	Recovery (%)
1	548.5	91.3
2	642.1	106.8
3	639.8	106.4
4	547.7	91.1
5	527	87.7
6	567.5	94.4
7	552.4	91.9
8	595.1	99.0
9	548.5	91.3
10	543.6	98.1
11	598.5	95.5
12	574.2	91.7
14	551	91.4
<b>Mean</b>	<b>572.0</b>	<b>95.1</b>
<b>Standard Deviation</b>	<b>35.2</b>	<b>5.7</b>