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| Supplementary Table 1 - Number of samples (N) and average values (±SD) of carbon (δ13C) and nitrogen (δ15N) isotope ratios of the Plata pompano *Trachinotus marginatus by* body sized groups (< 40, 40 - 80, > 80 TL mm), preys and basal sources used in the isotopic mixing models. 'Data source' denotes if the samples were obtained in the current study or from the literature. |
|  | N | δ13C |  |  | δ15N |  | Sampling Date | Data source |
|  |  | Mean | ± SD |  | Mean | ± SD |  |  |
| Consumers |  |  |  |  |  |  |  |  |
| *Trachinotus marginatus (< 40)* | 9 | -17.62 | 1.09 |  | 12.44 | 0.75 | March 2015 | This study |
| *Trachinotus marginatus (40 - 80)* | 11 | -16.4 | 0.562 |  | 14.43 | 0.59 | March 2015 | This study |
| *Trachinotus marginatus (> 80)* | 5 | -15.42 | 0.42 |  | 14.73 | 0.19 | March 2015 | This study |
|  |  |  |  |  |  |  |  |  |
| Prey sources |  |  |  |  |  |  |  |  |
|  Crustaceans |  |  |  |  |  |  |  |  |
| *Emerita brasiliensis* | 3 | -12.17 | 1.22 |  | 10.66 | 0.53 | October 2015 | This study |
|  Fish juveniles |  |  |  |  |  |  |  |  |
| *Mugil liza*  | 5 | -19.55 | 0.35 |  | 8.94 | 0.81 | March 2015 | This study |
| *Trachinotus marginatus* | 5 | -18.10 | 1.31 |  | 12.08 | 0.69 | March 2015 | This study |
|  Insects |  |  |  |  |  |  |  |  |
| *Hymenoptera* | 10 | -19.14 | 4.70 |  | 2.77 | 2.13 | May 2008 to April 2009 | Huckembeck et al 2020 |
| *Hemiptera* | 1 | -20.97 |  |  | 3.81 |  | August 2008 | Huckembeck et al 2020 |
| *Coleoptera* | 9 | -20.18 | 2.78 |  | 4.54 | 1.82 | August 2008 to April 2009 | Huckembeck et al 2020 |
| *Odonata* | 4 | -23.59 | 2.81 |  | 3.72 | 2.86 | June 2008 to April 2009 | Huckembeck et al 2020 |
|  Annelids |  |  |  |  |  |  |  |  |
| *Spio gaucha*  | 6 | -14.10 | 0.18 |  | 13.43 | 0.16 | June 2012 | Garcia et al 2019b |
|  Mollusks |  |  |  |  |  |  |  |  |
| *Amarilladesma mactroides* | 5 | -13.54 | 0.18 |  | 10.93 | 0.17 | March 2015 | This study |
|  |  |  |  |  |  |  |  |  |
| Basal sources |  |  |  |  |  |  |  |  |
| POM (particulate organic matter in suspension) | 9 | -16.63 | 0.35 |  | 7.01 | 1.25 | March 2015 | This study |
| SOM (particulate organic matter in the sediment) | 6 | -19.26 | 0.29 |  | 10.45 | 0.36 | March 2015 | This study |