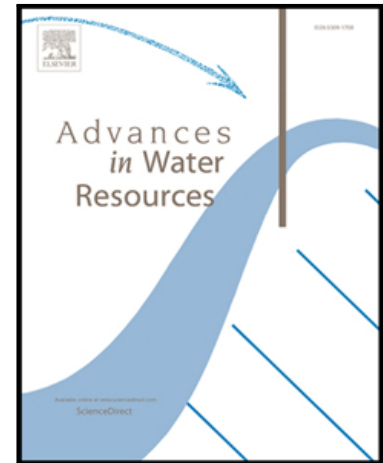


## Accepted Manuscript

Water level variability of the Mirim - São Gonçalo system, a large, subtropical, semi-enclosed coastal complex

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PII: S0309-1708(17)30992-2  
DOI: [10.1016/j.advwatres.2018.05.008](https://doi.org/10.1016/j.advwatres.2018.05.008)  
Reference: ADWR 3141



To appear in: *Advances in Water Resources*

Received date: 26 October 2017  
Revised date: 23 April 2018  
Accepted date: 9 May 2018

Please cite this article as: Juliana Costi, Wiliam Correa Marques, Eduardo de Paula Kirinus, Raquel de Freitas Duarte, Jorge Arigony-Neto, Water level variability of the Mirim - São Gonçalo system, a large, subtropical, semi-enclosed coastal complex, *Advances in Water Resources* (2018), doi: [10.1016/j.advwatres.2018.05.008](https://doi.org/10.1016/j.advwatres.2018.05.008)

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**Highlights**

- The TELEMAC2D model is used to simulate the system's hydrodynamics for five years
- The tributaries' discharges govern the temporal patterns
- The wind damns the water, creating a barotropic gradient, mostly in the southern ML
- The wind is also responsible for high-frequency oscillations of the water level
- The terrain topography and the persistency of high water levels control flood frequencies

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