## **Accepted Manuscript**

Mathematical model of tidal water transport by a partial blockage of a coastal lagoon

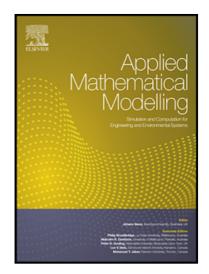
L. Martínez-Suástegui, C. Treviño

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#### ACCEPTED MANUSCRIPT

### Highlights

- A mathematical model for the obstruction of a coastal lagoon is presented.
- Experimental results for before and in front of the bridge are presented.
- Numerical results of the model reproduce observed trends.
- The analysis shows the response if additional bridges are built or removed.
- Interconnection through a porous medium is also considered.

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