

Accepted Manuscript

Analysis of modified Godunov type schemes for the two-dimensional linear wave equation with Coriolis source term on cartesian meshes

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PII: S0021-9991(18)30307-3
DOI: <https://doi.org/10.1016/j.jcp.2018.05.015>
Reference: YJCPH 8014

To appear in: *Journal of Computational Physics*

Received date: 18 October 2017
Revised date: 15 March 2018
Accepted date: 7 May 2018

Please cite this article in press as: E. Audusse et al., Analysis of modified Godunov type schemes for the two-dimensional linear wave equation with Coriolis source term on cartesian meshes, *J. Comput. Phys.* (2018), <https://doi.org/10.1016/j.jcp.2018.05.015>

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Highlights

- Design of a new scheme able to preserve geostrophic-like equilibria for the linearised shallow water equations with Coriolis term.
- Derivation of an explicit stability condition.
- Proof that the scheme is energy-decreasing and also preserves the orthogonal subspace.

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