



Contribution ID: 20

Type: **not specified**

On the improvement of operational downscaling in spectral wave models

Tuesday, 15 September 2020 14:30 (45 minutes)

In the past significant progress has been made in terms of downscaling our wave forecasts towards our coasts. We present in this talk the work of the last decade in terms of operational downscaling using unstructured grids and implicit numerical schemes on triangular unstructured grids. Special focus will be numerical limiters and the error order of the discretization itself. We will look at various cases ranging from large ocean basins e.g. U.S. east Coast and very high resolution coastal application for the sake of the validation of the physics and numerics used in the models. The given talk is not limited to a certain model, the presented schemes have been already implemented in the common forecasting systems like WAM or WW3 and are actually in testing and further development.

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Session Classification: Moderator: Michail Diamantakis (ECMWF)