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10-day weather forecast with the variable resolution version of a global Eta model

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A global version of the regional Eta model is developed within a framework of quasiuniform spherical grids (cubic and octagonal). The variable resolution is included using the grid stretching method. This model is applied in a series of 10 days integrations with the enhanced resolution snapped over the North American continent. A multimodel ensemble aspect is mimicked by using both spherical grids in conjunction with various rotations of their orientations and by estimating the individual probabilistic weights of the different model variations in the preliminary training stage. The derived results are compared against 10-day forecast of both the regional and the global Eta model with uniform resolution grid.