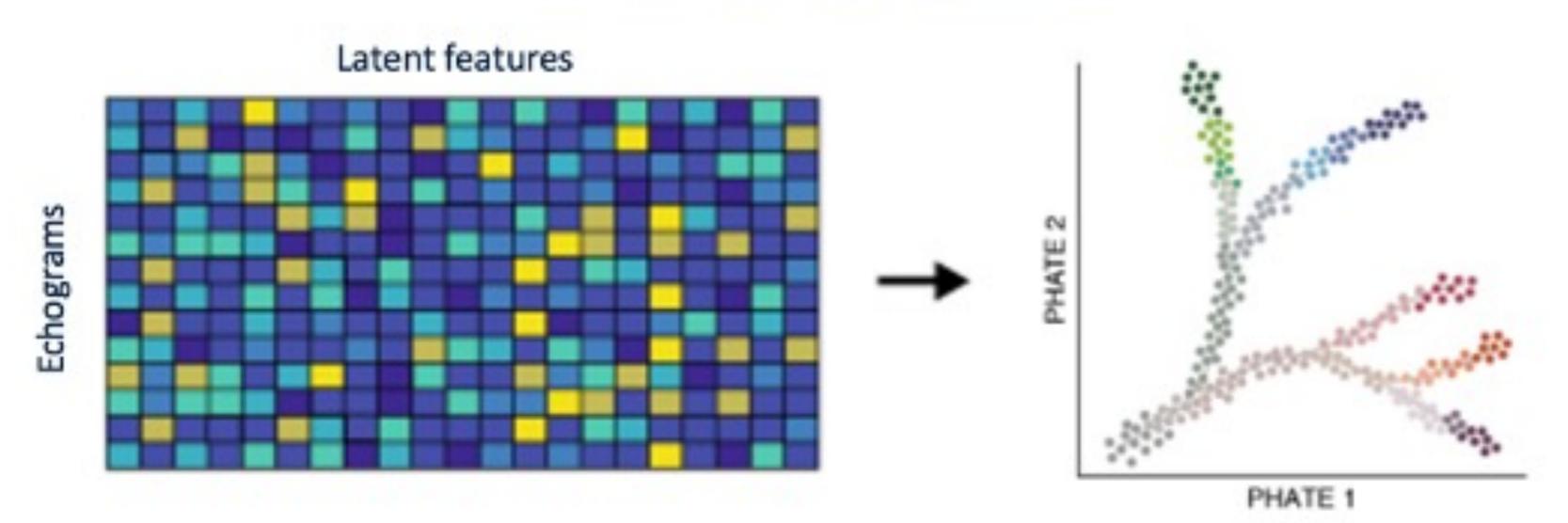
Acoustic classification with image-based machine learning

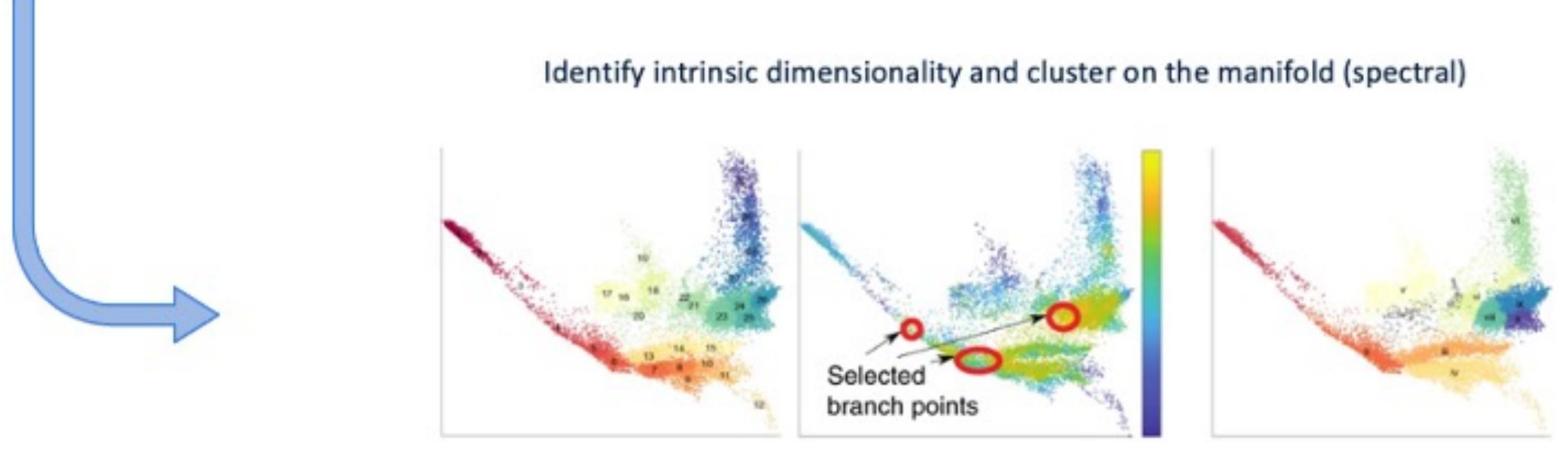
FI Emmett Culhane MIT-WHOI PI Camrin Braun MIT-WHOI



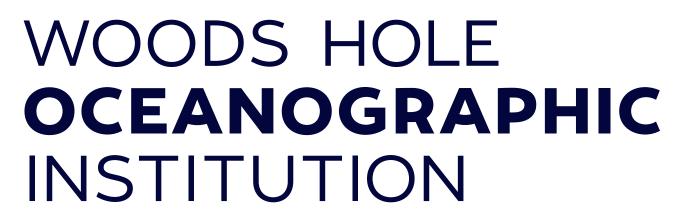


Manifold embedding with PHATE





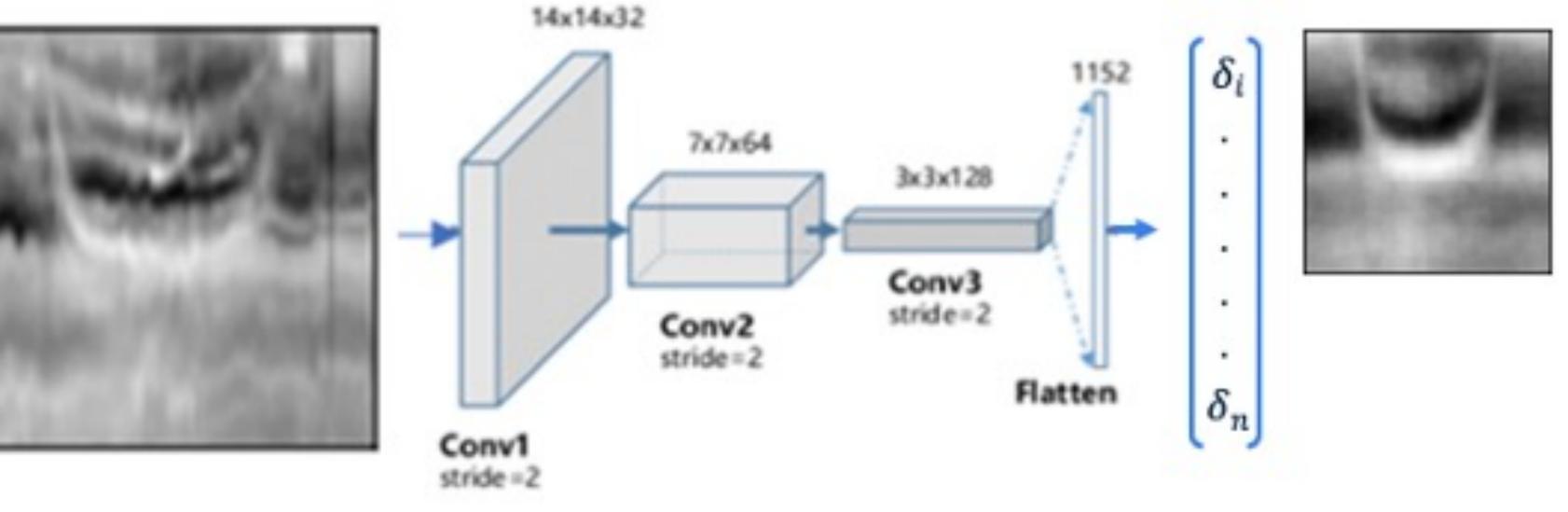


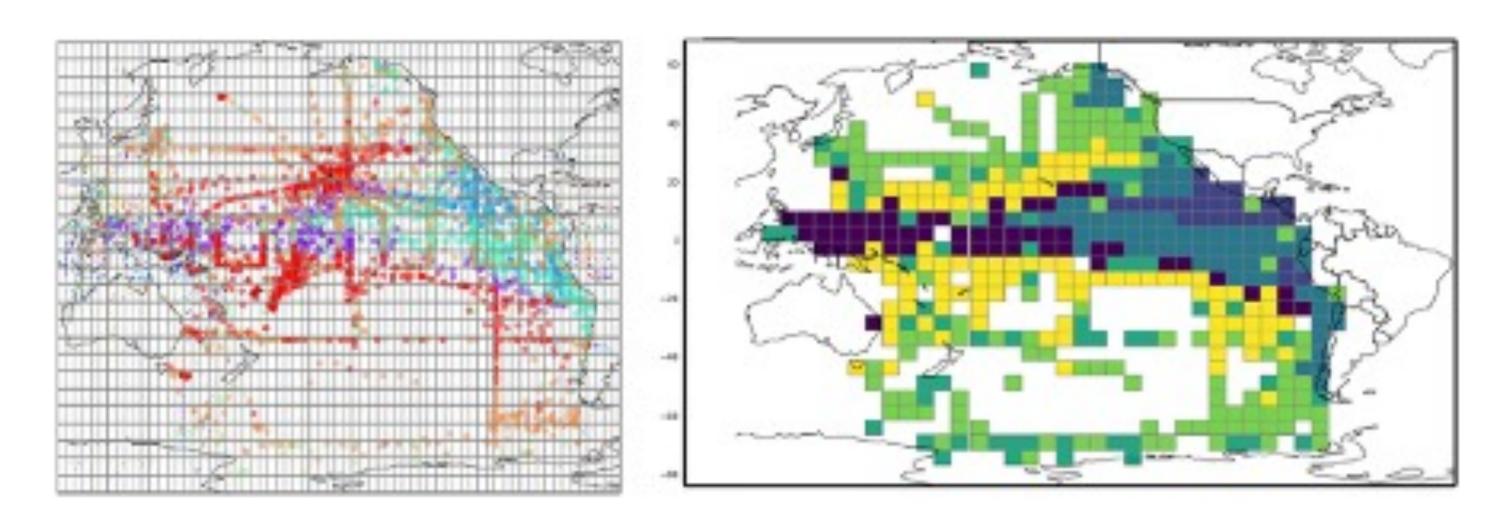




Acoustic seascape classification algorithm

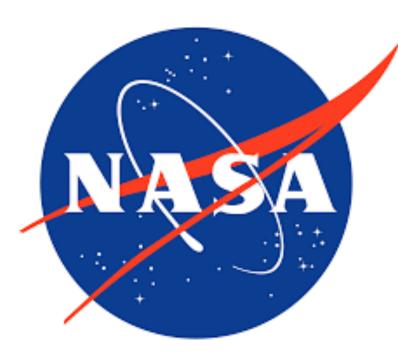
Generate feature vectors with CAE encoder





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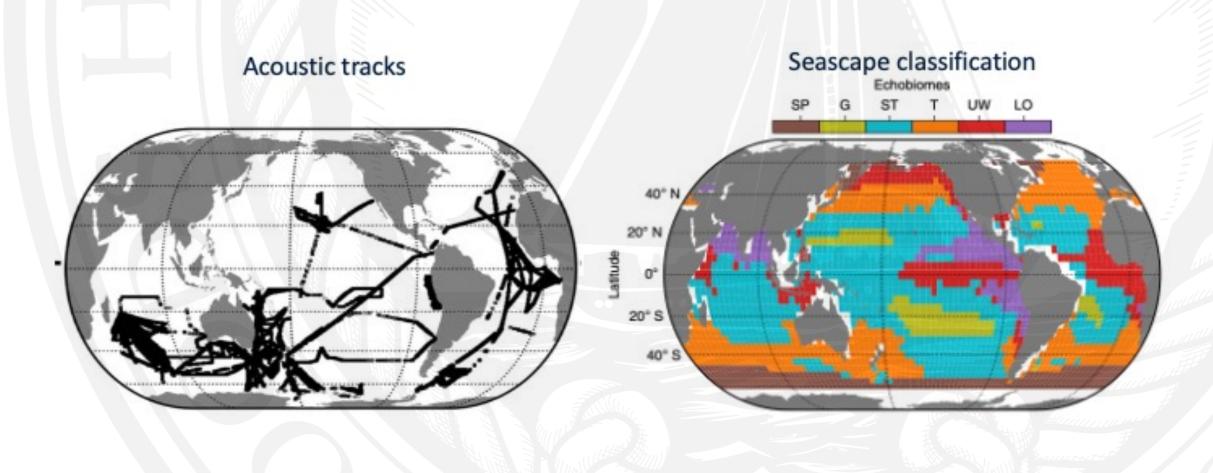




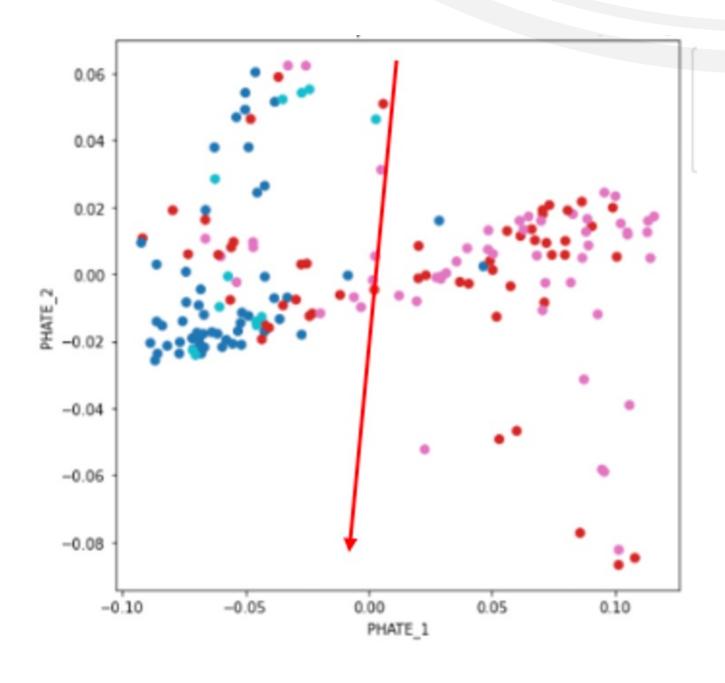
Gridding and backpropagating to the spatial domain



a. Data coverage and bias



b. Polar seasonality



c. Ecological impacts

