Preparing historical fisheries-independent data for use in predictive modeling with seabird foraging

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The proportion of tern prey captured in (left) NMFS bottom trawls surveys and (right) NHFG beach seine surveys for each year.

Annual timeline of available data types color coded with surrounding panels for detail.

The relative abundance of herrings in tern diets correlated with (left) those within tern's foraging size or (right) too large but lagged 2 years.

Sampling map of all historical fisheries data types available in the GoM.

Nesting terns were monitored to record fish provisioned to chicks.

Hidden Markov Model (HMM) on GPS tracks during nesting reveals foraging hotspots within 25 km of their nests.

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