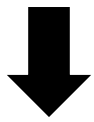
Trait-based analyses of historical albacore diets

Analytical workflow for section 2.4

1. Report on taxonomic and trait diversity in albacore diets

Develop species accumulation curves in relation to ocean basin sampled for all **308 species** identified in albacore diets from **69** independent diet observations (by season, year and location sampled) reported within **26** studies.

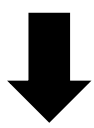


2. Quantitative classification of albacore prey into trait-based guilds

Use divisive hierarchical clustering technique to classify **292 species** with complete trait information from all **69** observations and all **26** studies

Identify optimal clustering and classification of prey trait guilds

Calculate a normalized frequency of occurrence-based index of contribution to diets for each prey trait guild to illustrate variation in historical trait-based diet composition.



3. Statistically compare trait-based vs. taxonomic information in explaining variation in diet composition

Due to low replication of some species and in some ocean basins, trait-based multivariate generalized linear models were developed for **98** species with > 3 occurrences in the dataset and involved **60** diet composition observations from **23** studies.