FISH 556: Final Project

Markus Min

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Model equation

$$log(d_{s,t}) \sim \beta + \omega_s + \epsilon_{s,t}$$

Where:

- s is the station
- t is the year
- d is the density of a species caught in a tow
- β_t is the median density in year t
- ω_s is the density for location s relative to the median location that is typical across years
- $\epsilon_{s,t}$

bespoke TMB implementation

sdmTMB package implementation