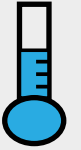


Mark-recapture data (D3)

natural mortality



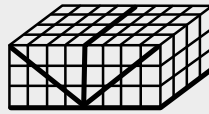
density-dependent
overwinter
mortality



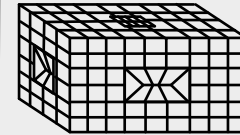
seasonal growth



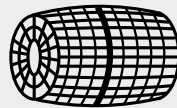
Fukui trap
observation
process



Shrimp trap
observation
process



Minnow trap
observation
process



Initial population density



True population size



Multi-year time series data (D1)

Size-at-age
data (D2)