

portfolio_plots.rmd

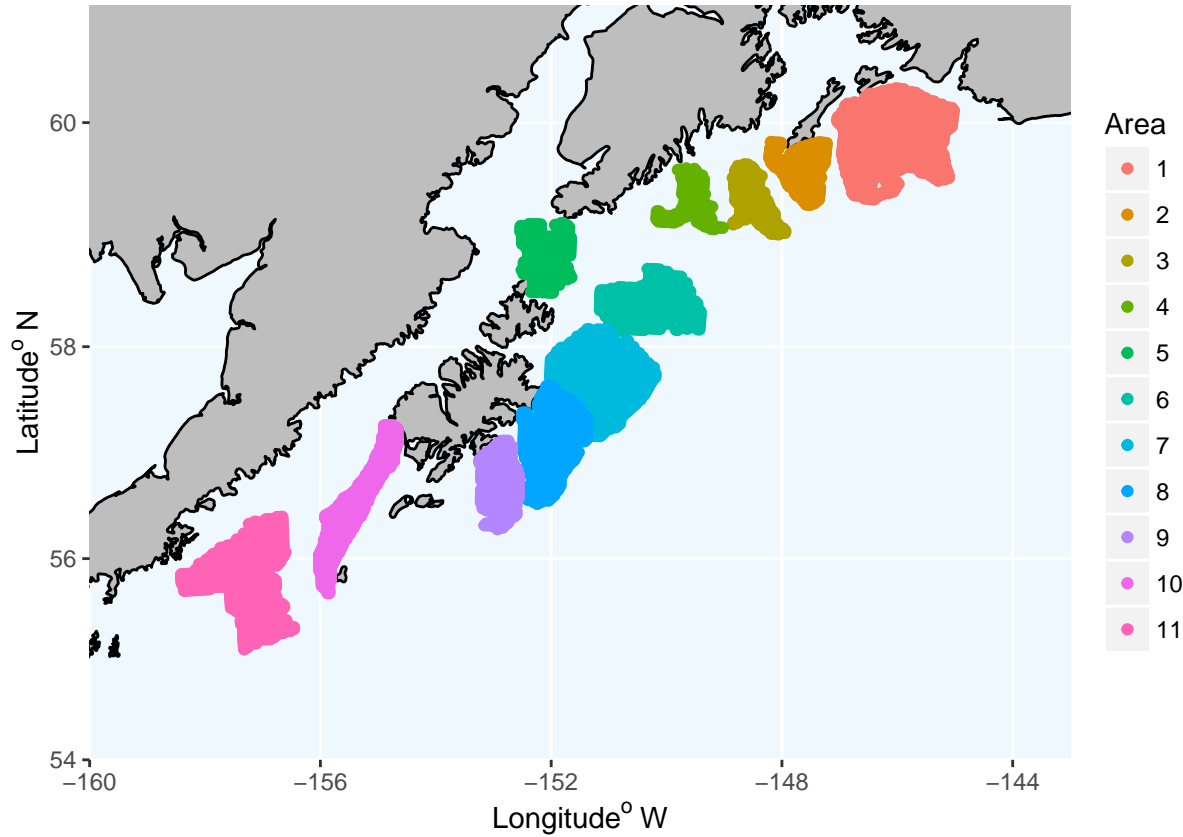
Ole Shelton

March 8, 2016

This is a file for trying out alternative plots of portfolio metrics for groundfish.

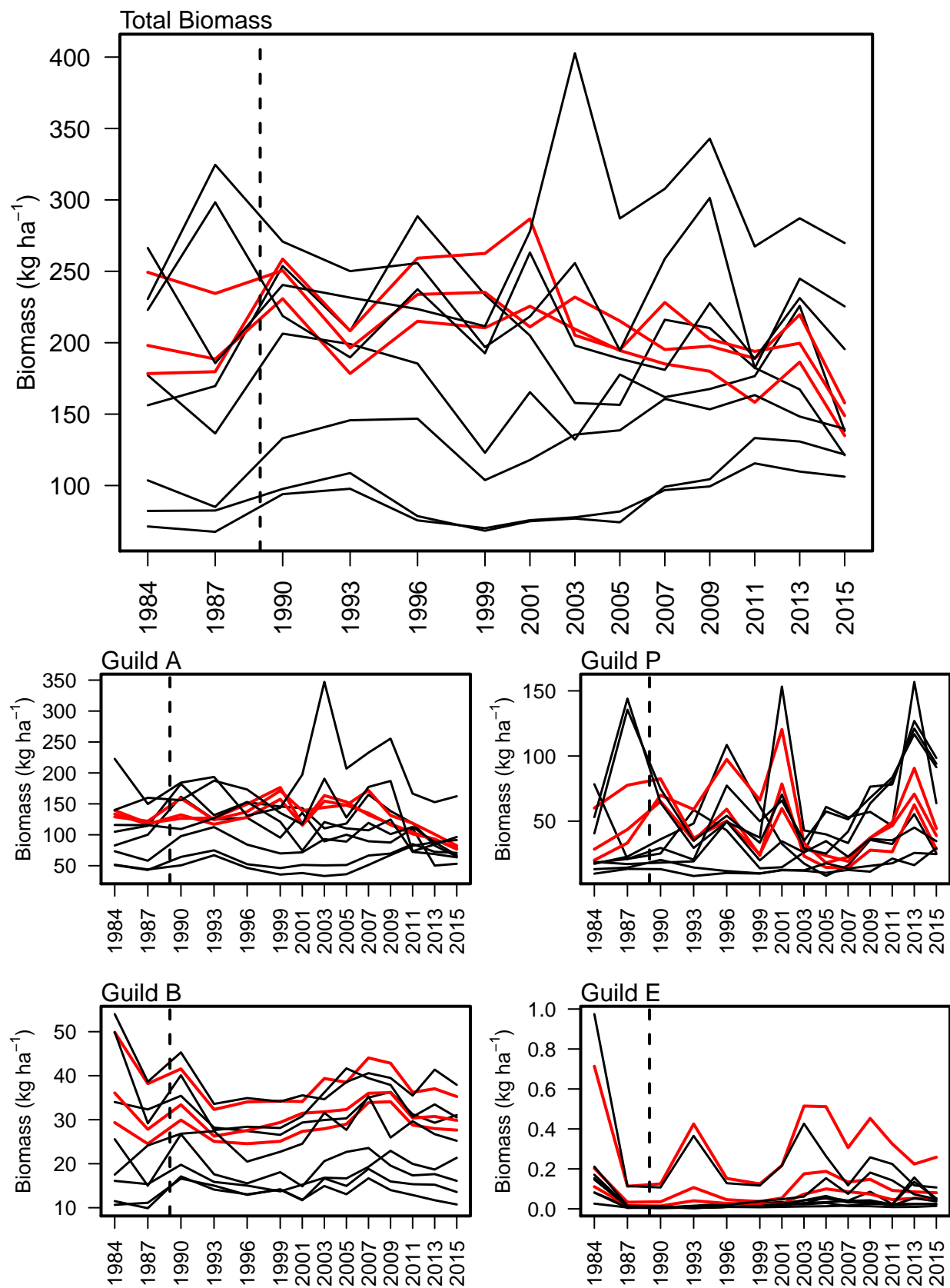
Here are a bunch of plots for looking at trend and variability in different groups for the period 1990 to present

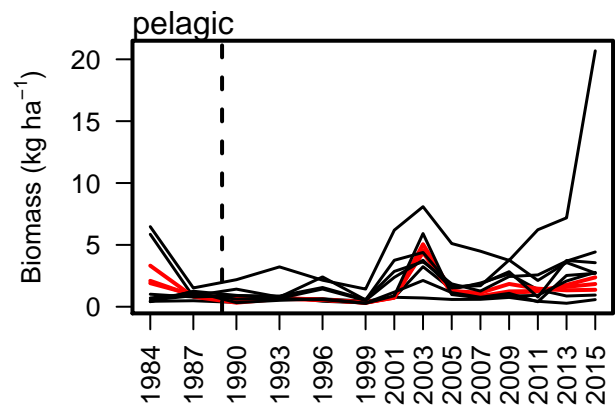
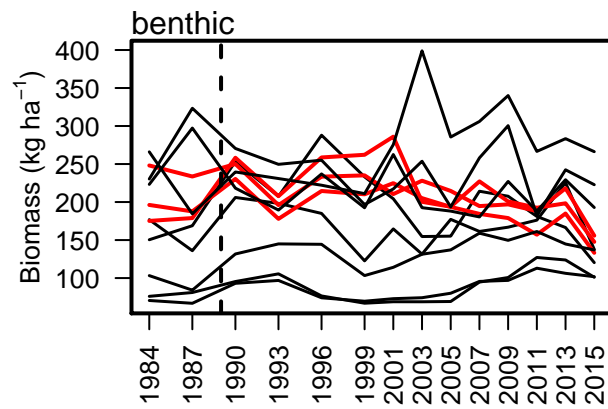
Map of area locations



Plot time series of a few community metrics

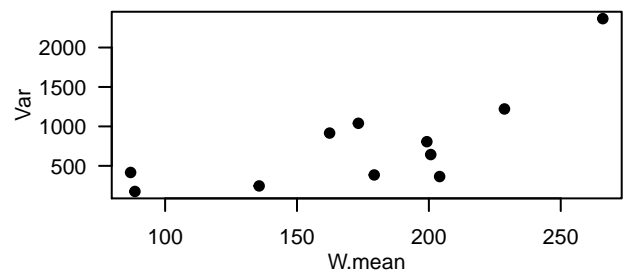
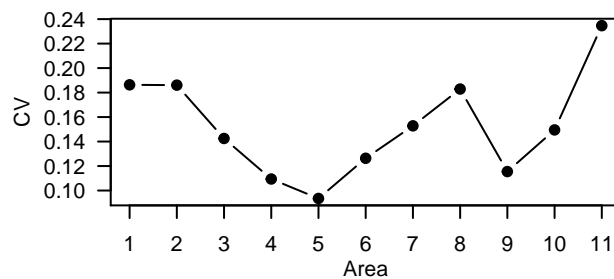
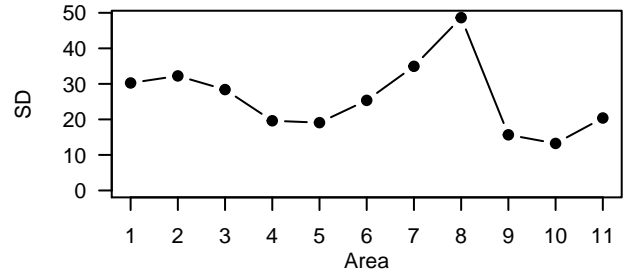
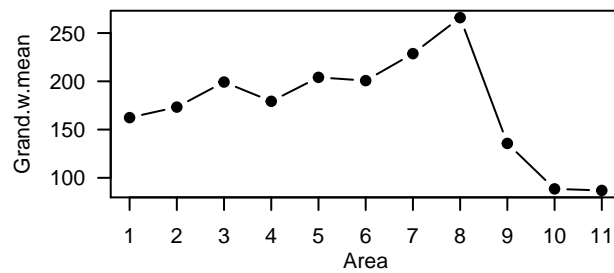
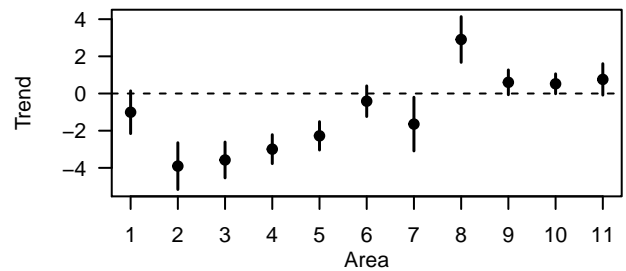
Total Biomass: (RED denotes areas 3-5)





Total Biomass (fish only)

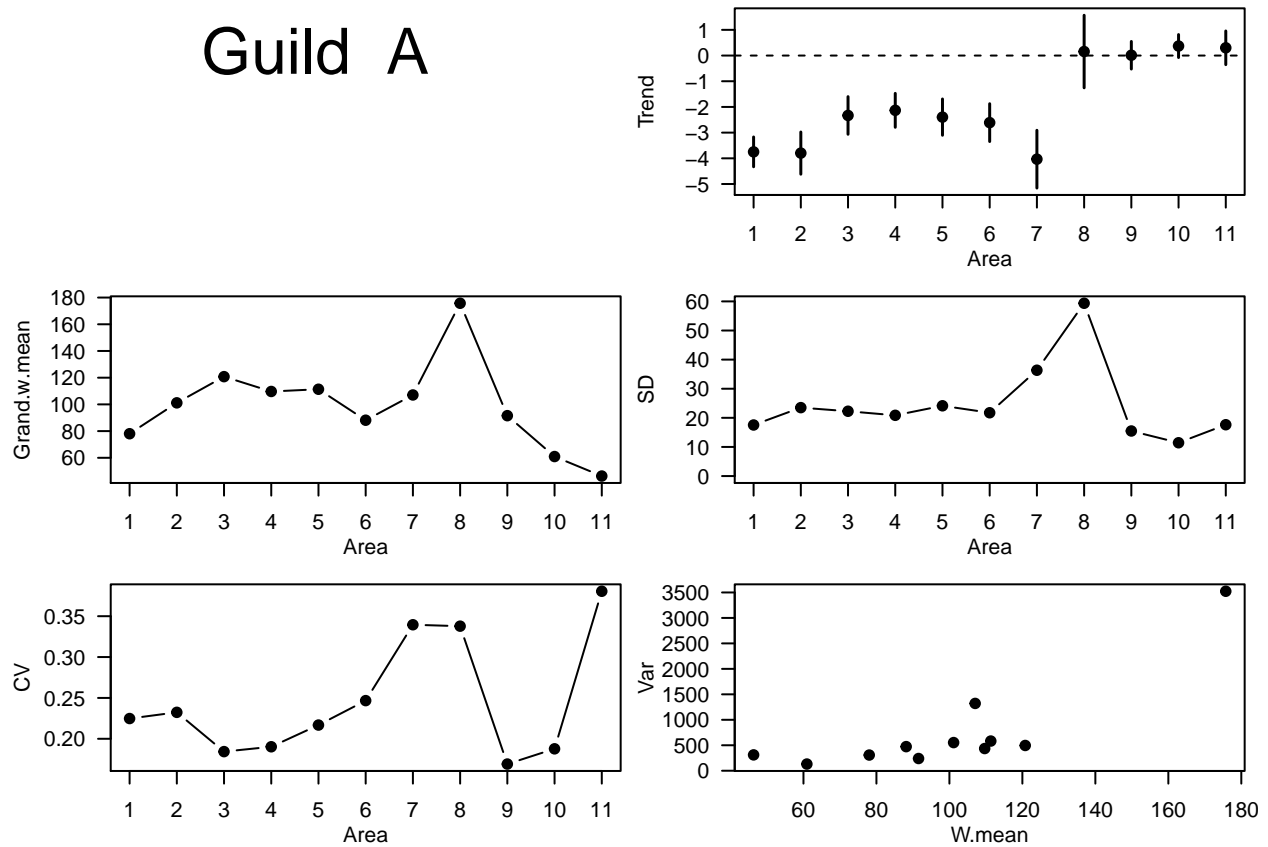
Total Biomass



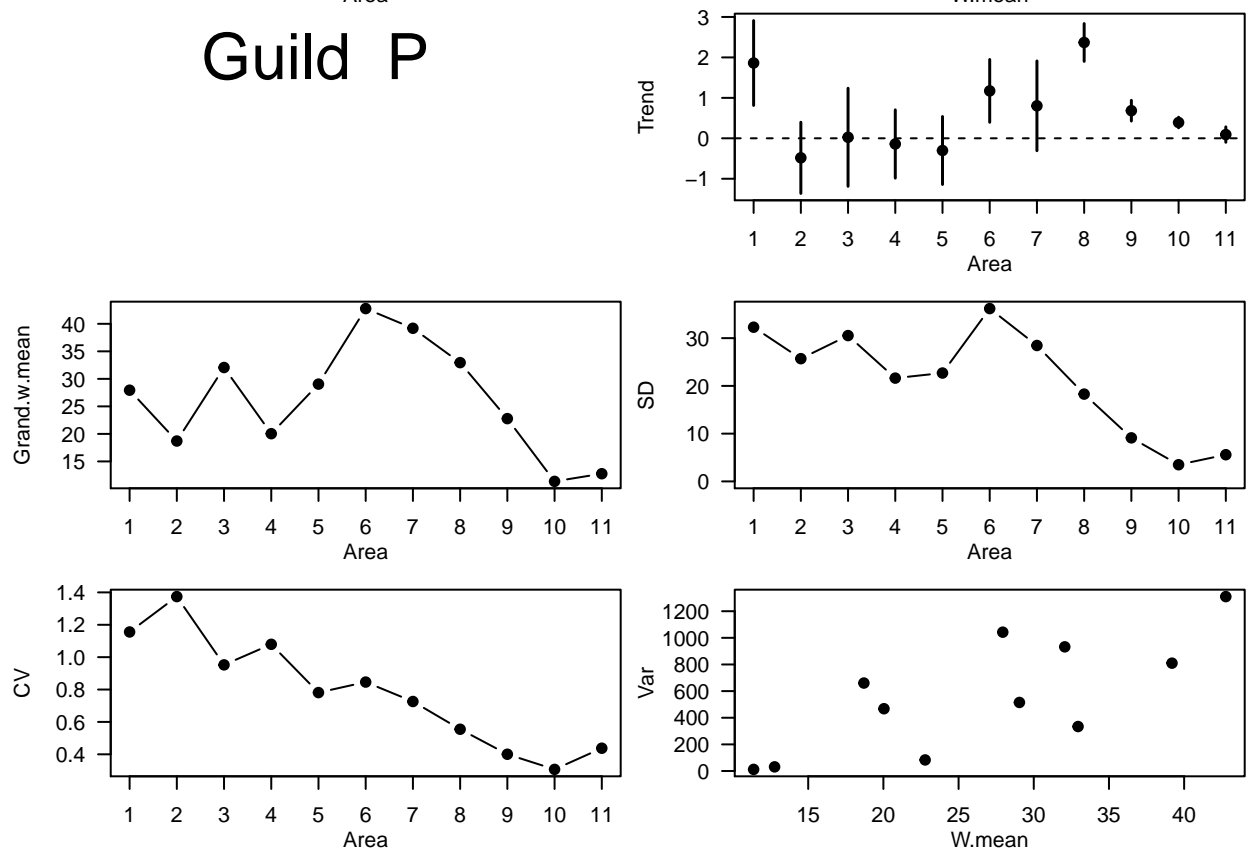
By Feeding Guild

- A = Apex predators (Piscivores)
- B = Benthic Foragers
- P = Pelagic Foragers
- E = Invertebrates (benthic foragers)

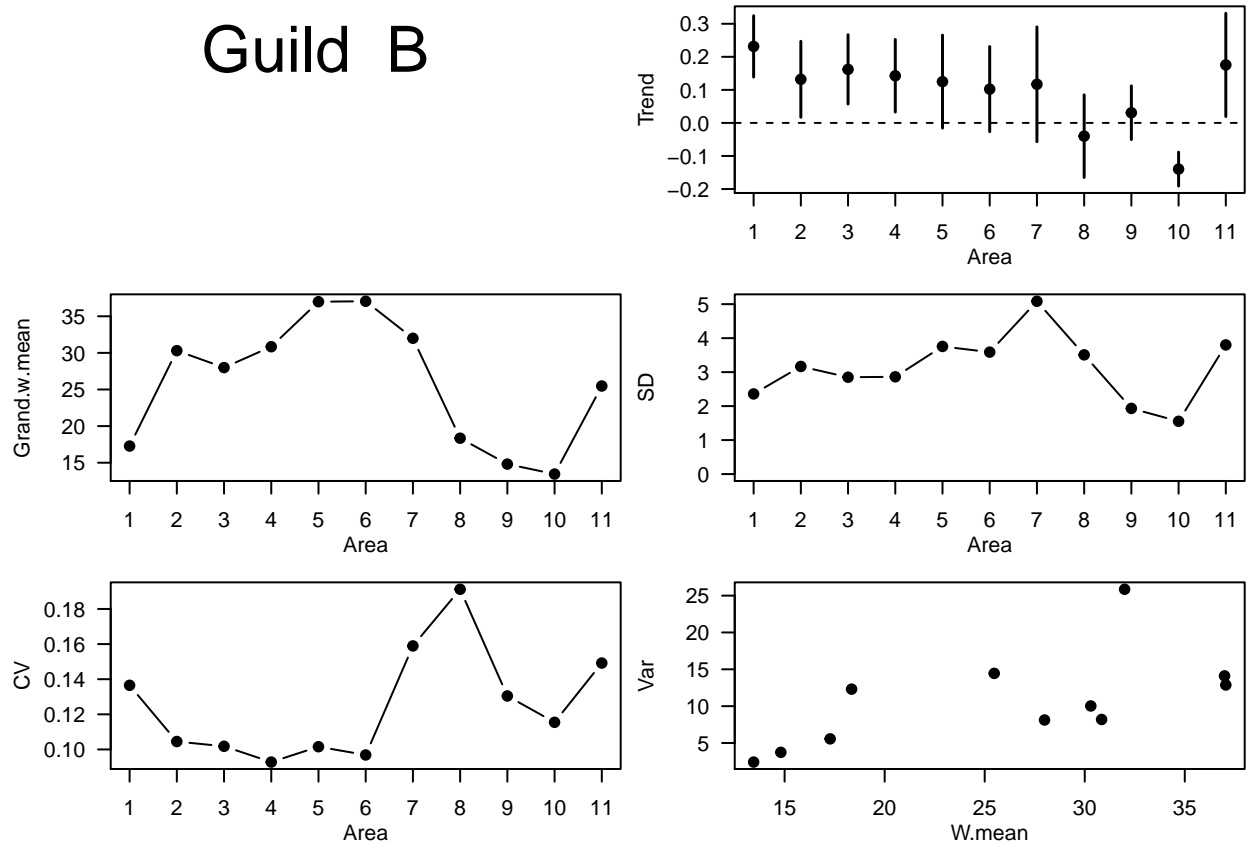
Guild A



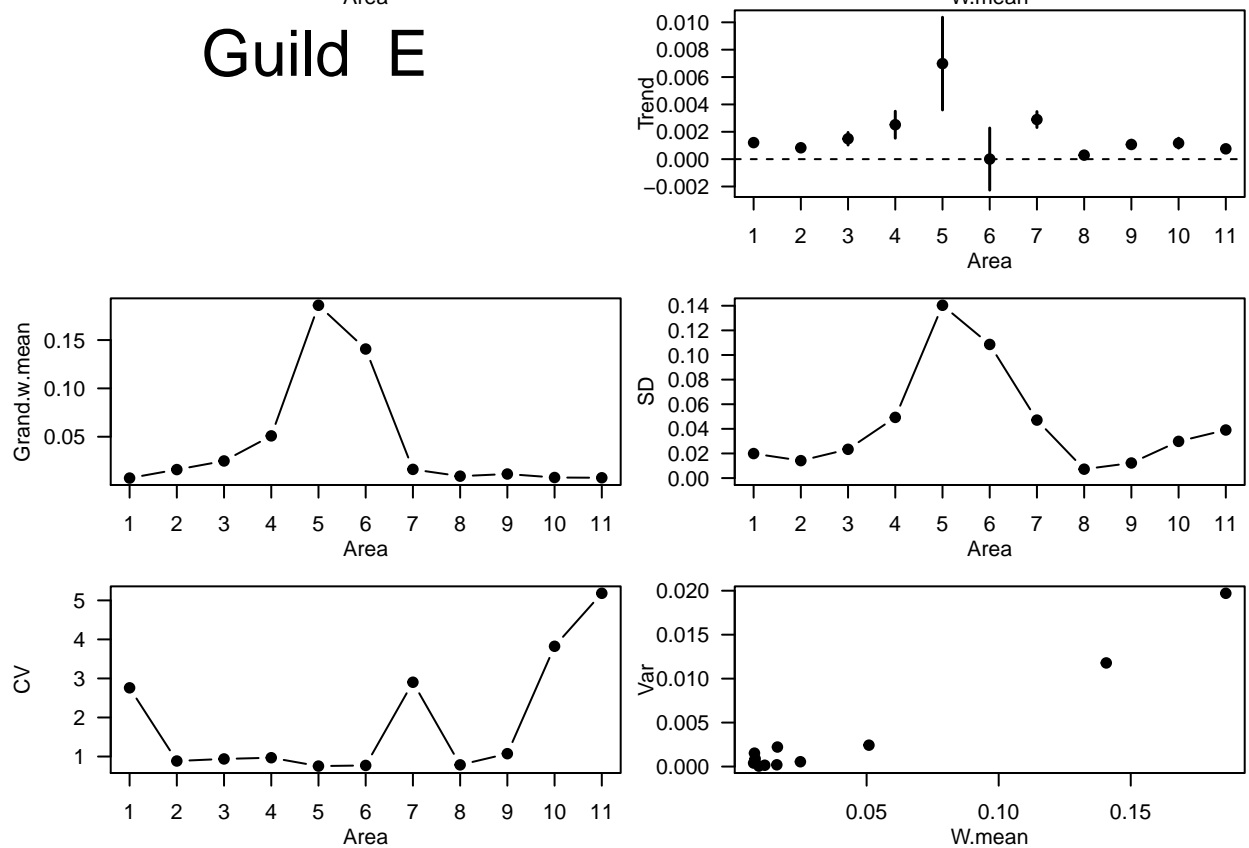
Guild P



Guild B

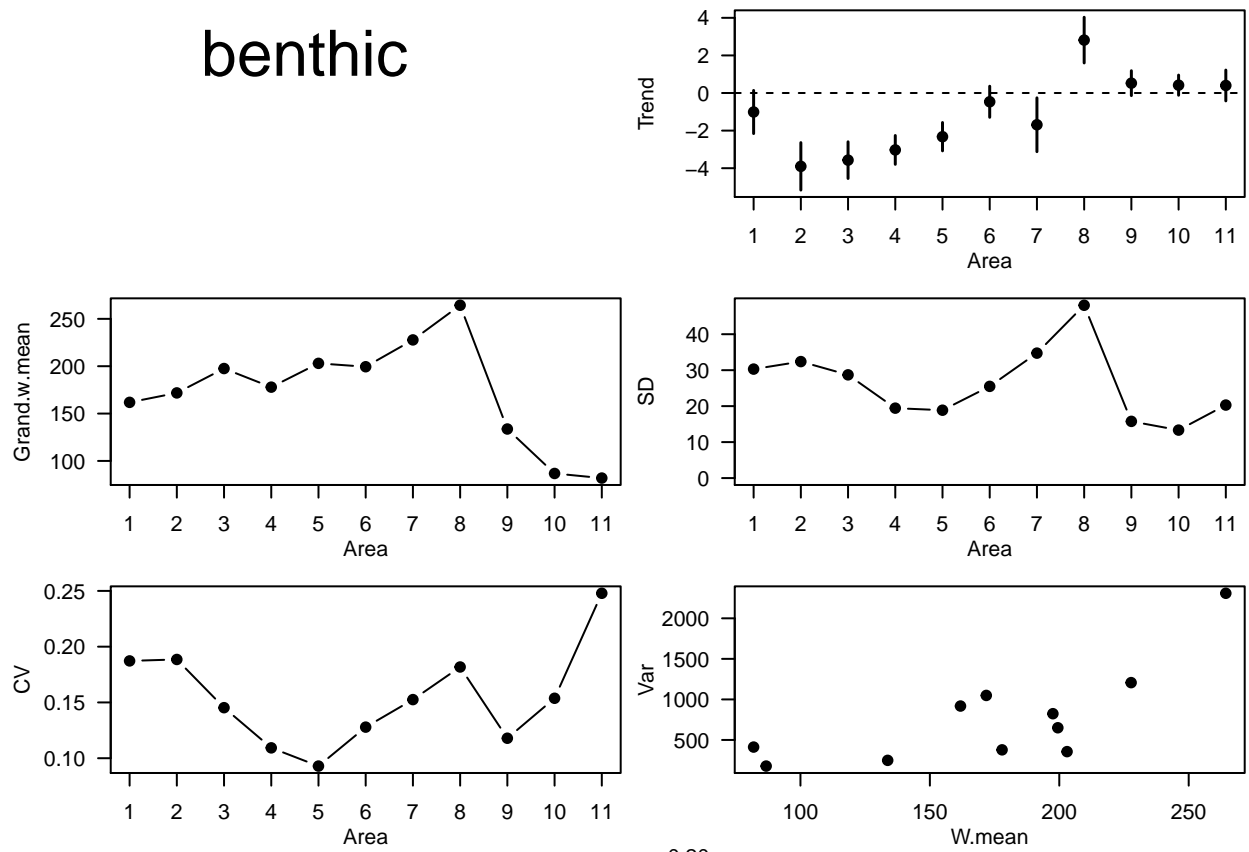


Guild E

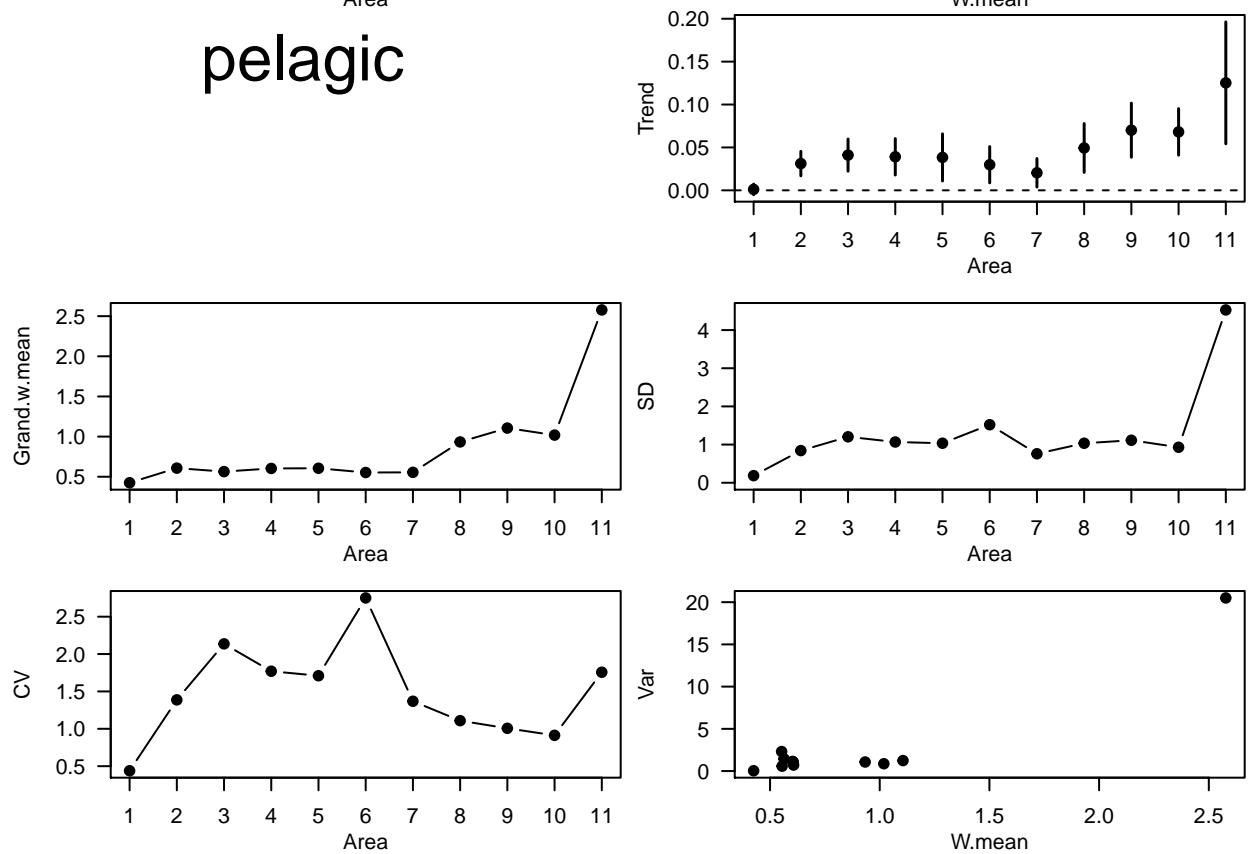


By Benthic vs. Pelagic

benthic



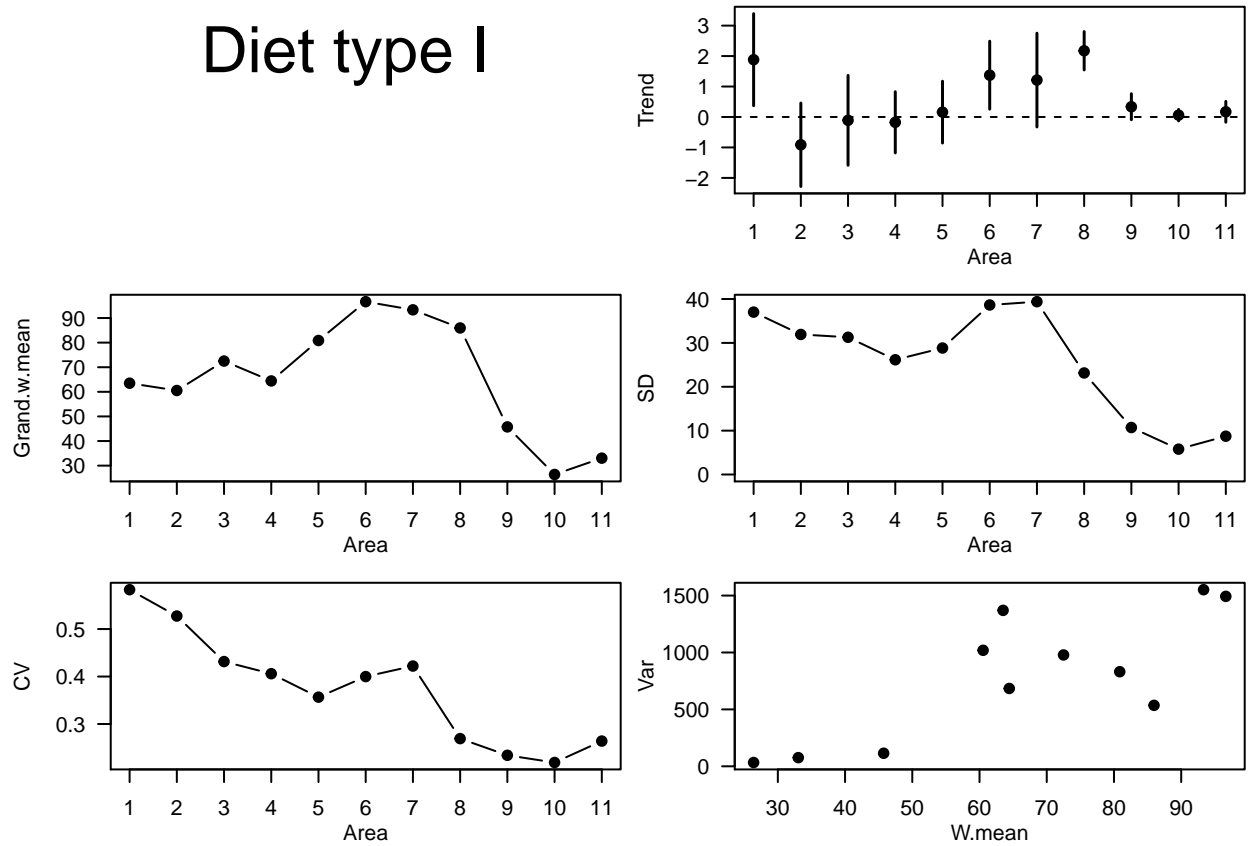
pelagic



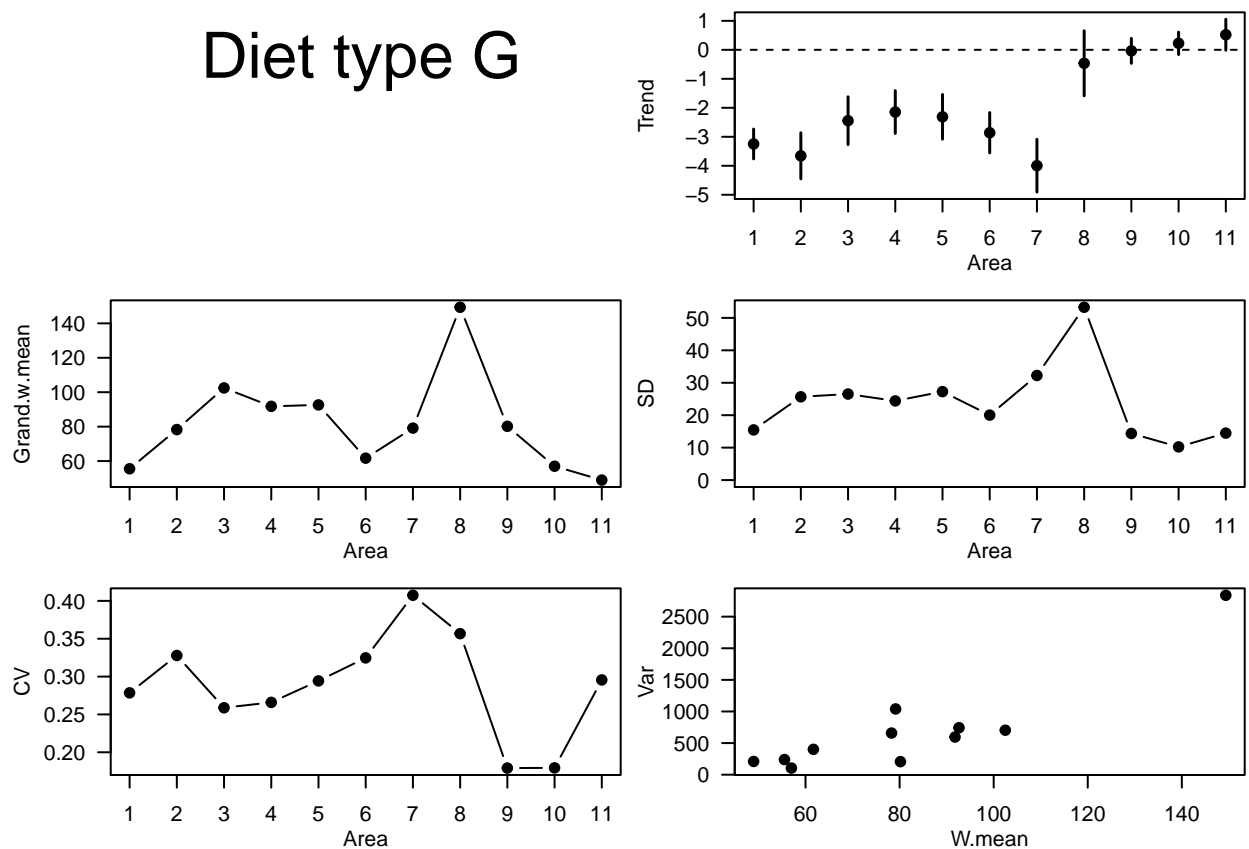
By DIET

- I = invertebrate prey
- F = fish prey
- G = generalist (Generalist if consumes both Invert & Fish prey (threshold = 20% diet by weight))
- B = demersal prey
- C = pelagic prey

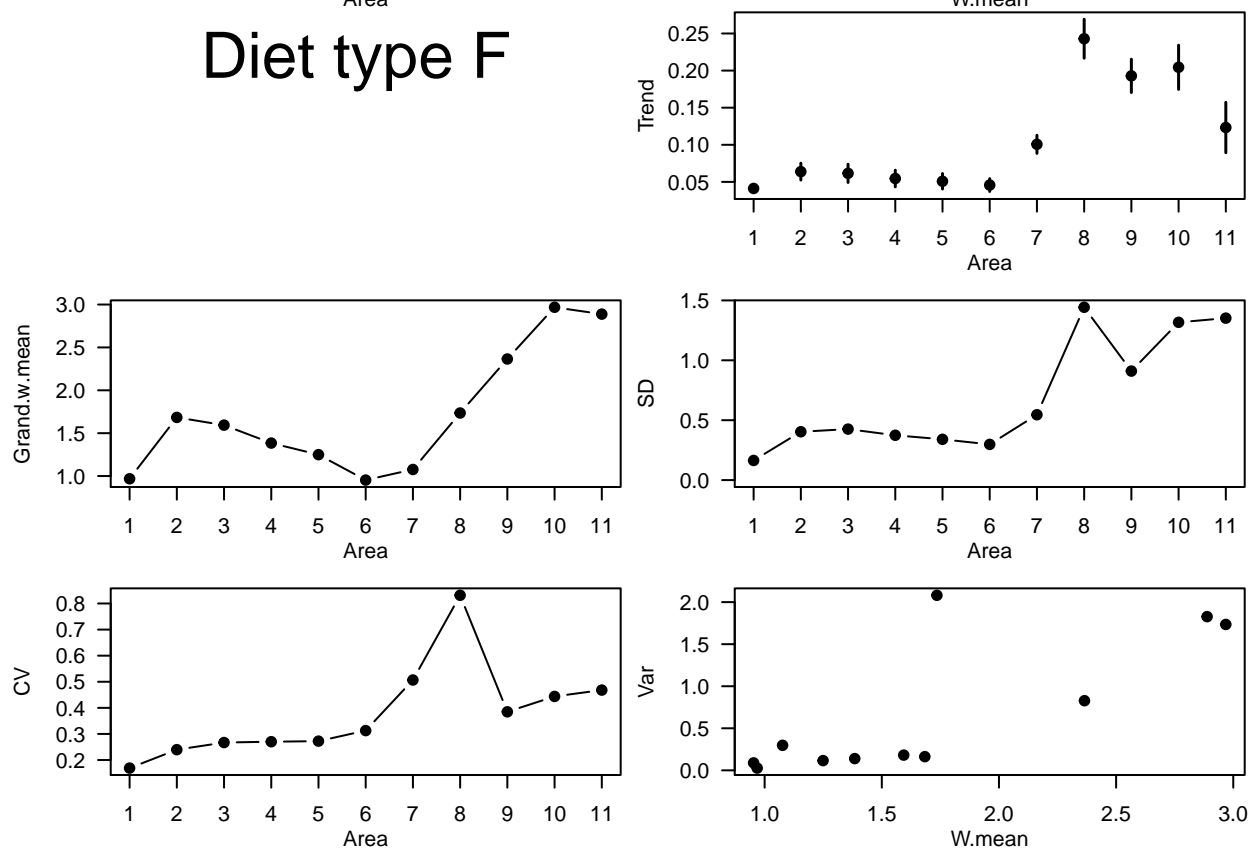
Diet type I



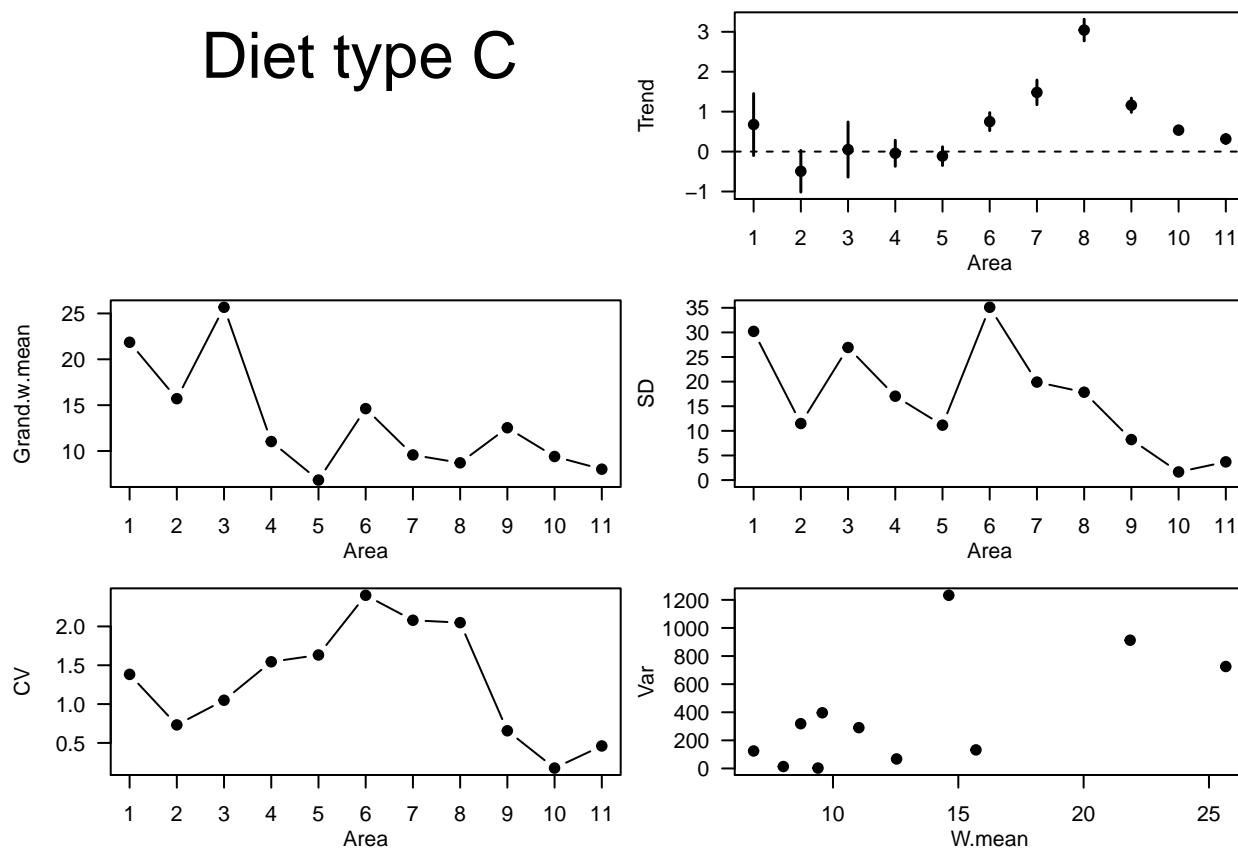
Diet type G



Diet type F



Diet type C



Diet type B

