

# portfolio\_plots.rmd

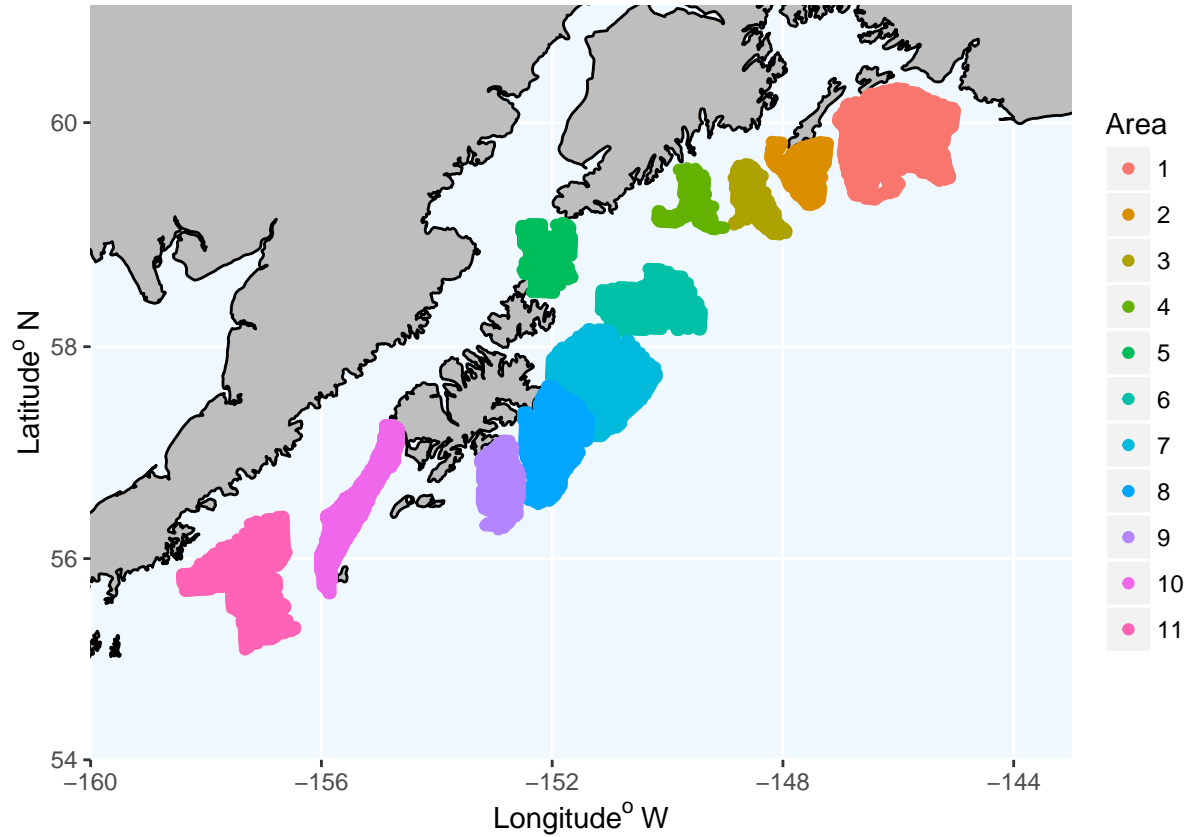
*Ole Shelton*

*March 8, 2016*

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

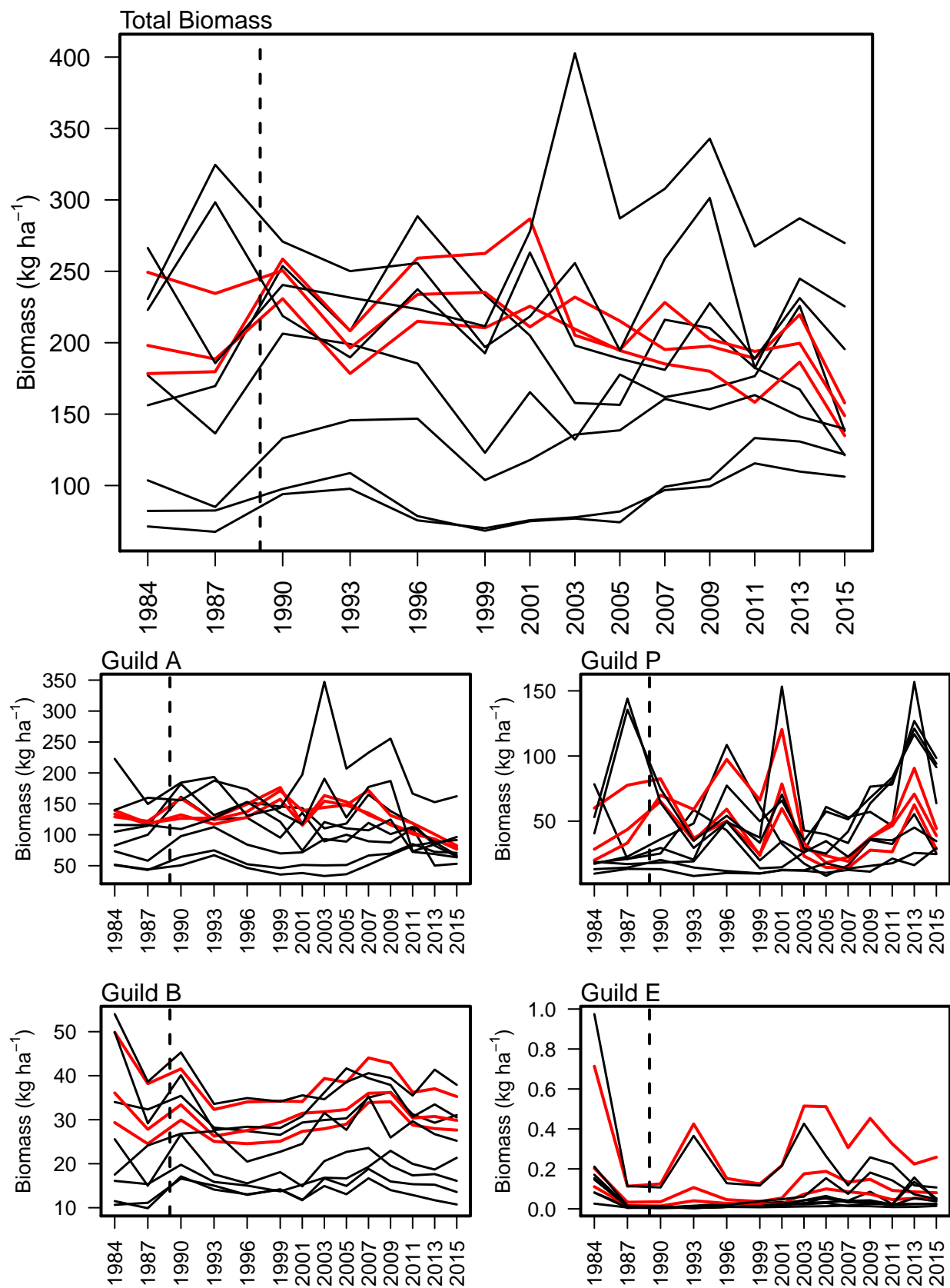
Here are a bunch of plots for looking at trend and variability in different groups for the period 1990 to present

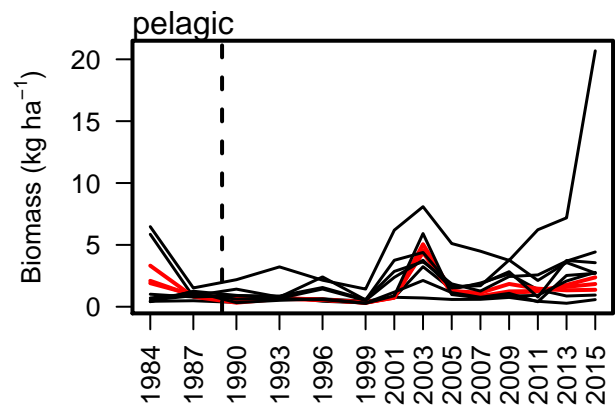
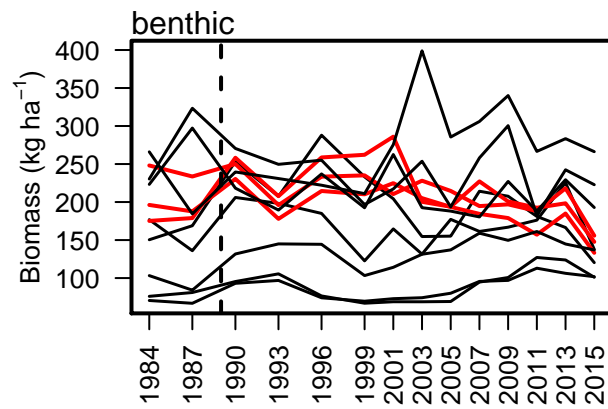
Map of area locations



Plot time series of a few community metrics

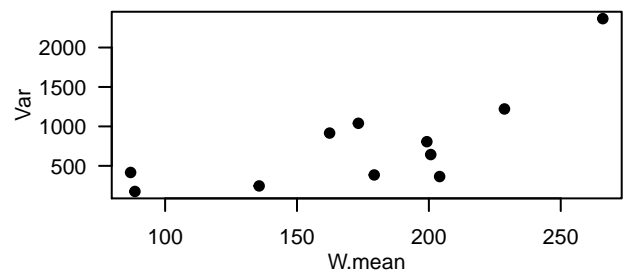
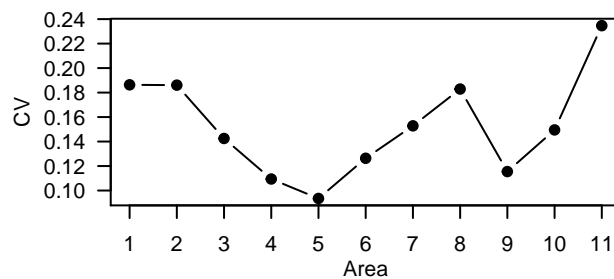
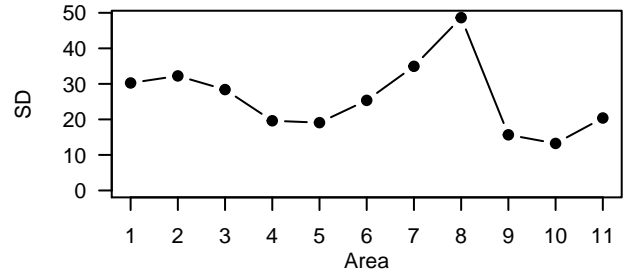
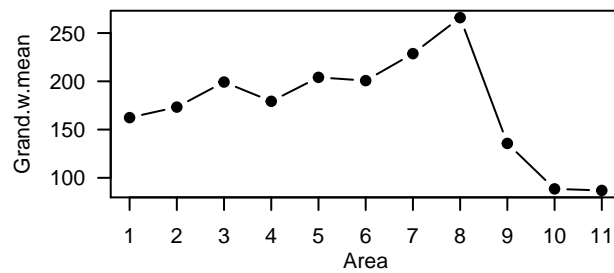
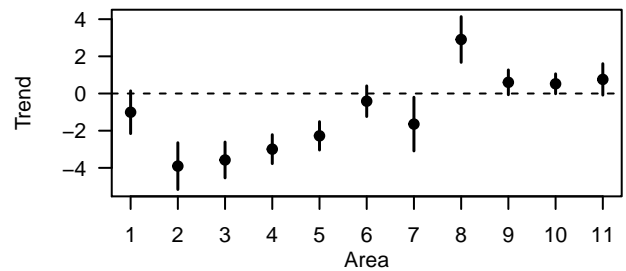
Total Biomass: (RED denotes areas 3-5)





Total Biomass (fish only)

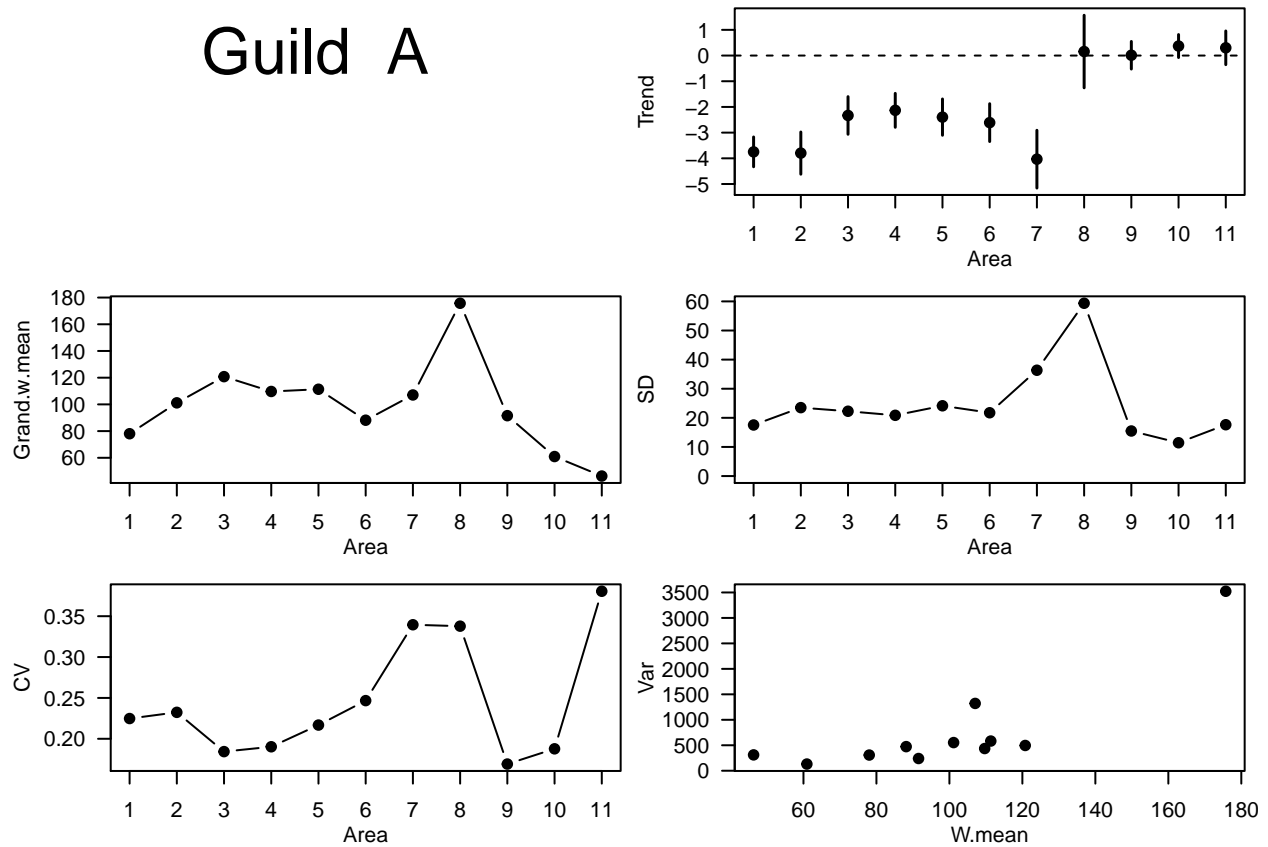
## Total Biomass



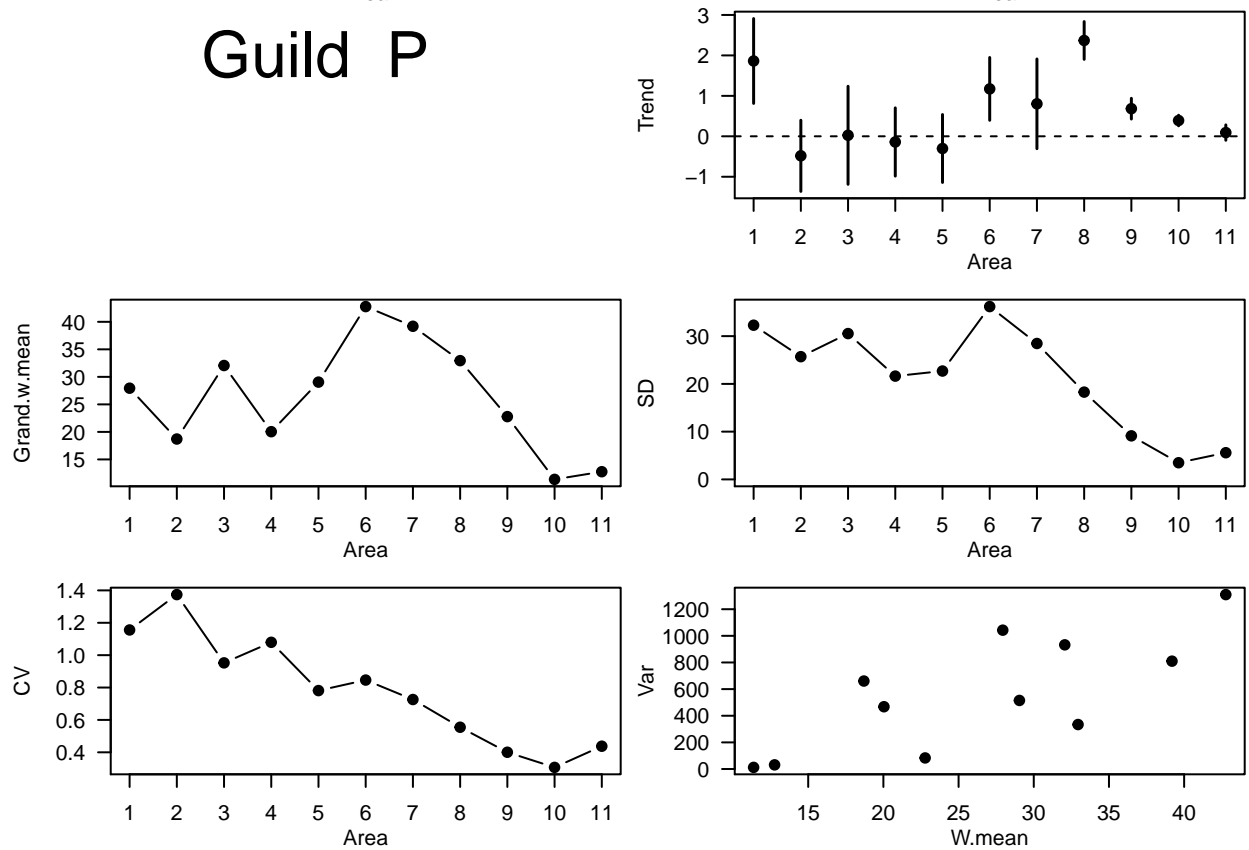
## By Feeding Guild

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

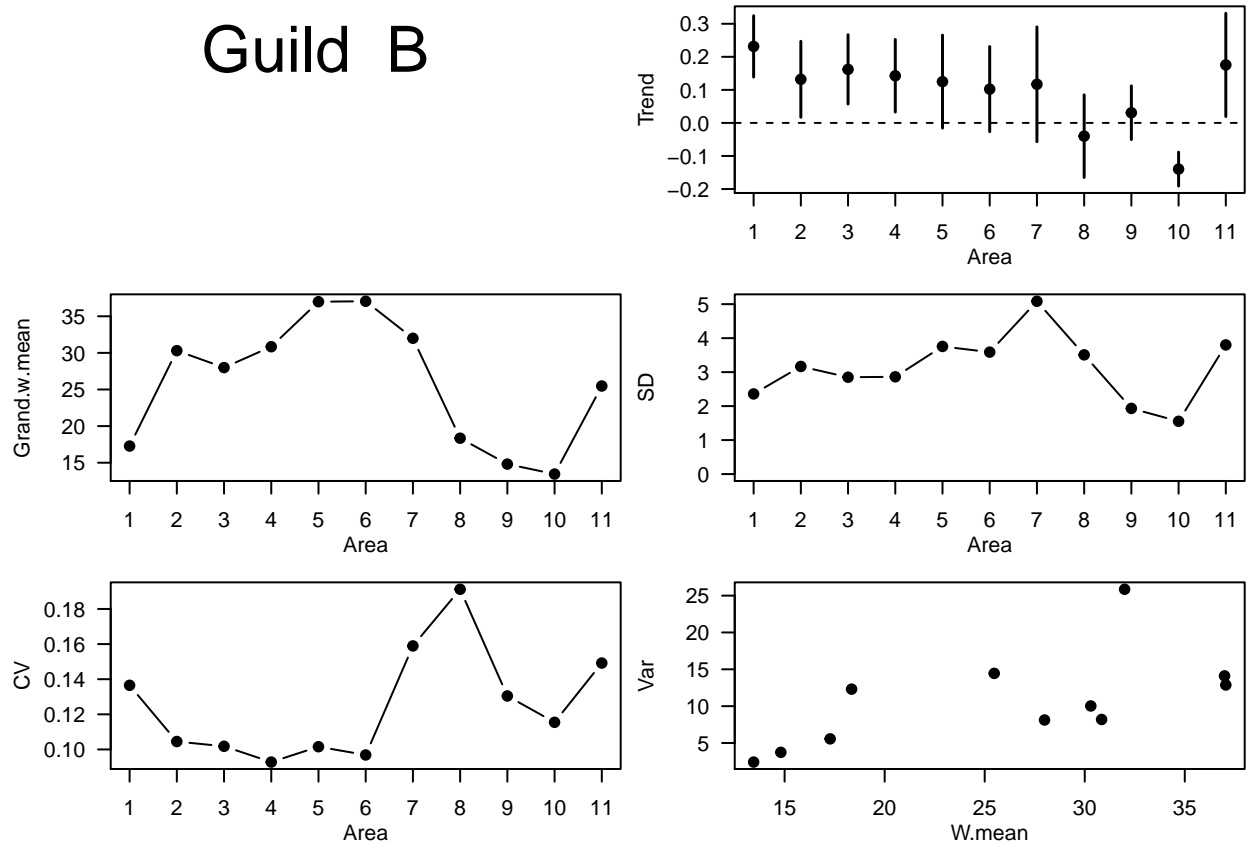
# Guild A



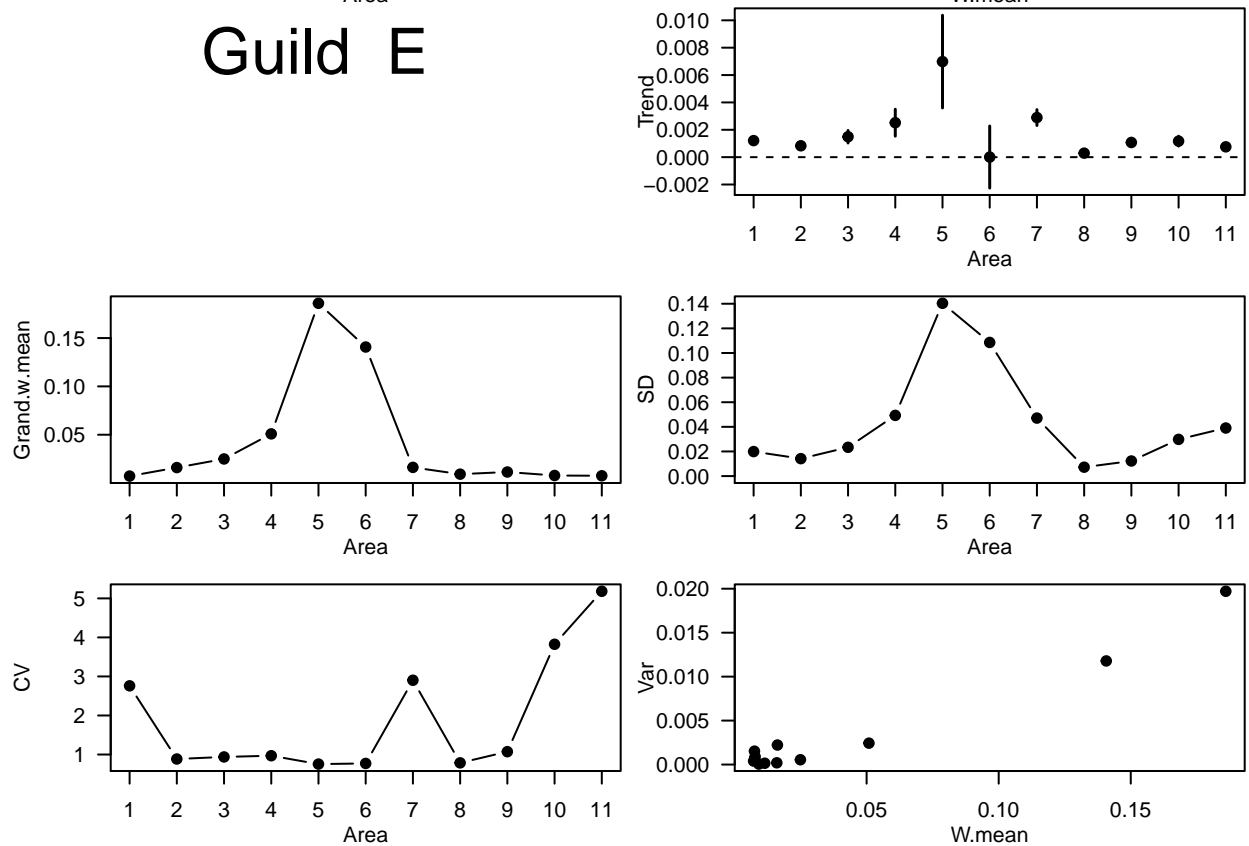
# Guild P



# Guild B

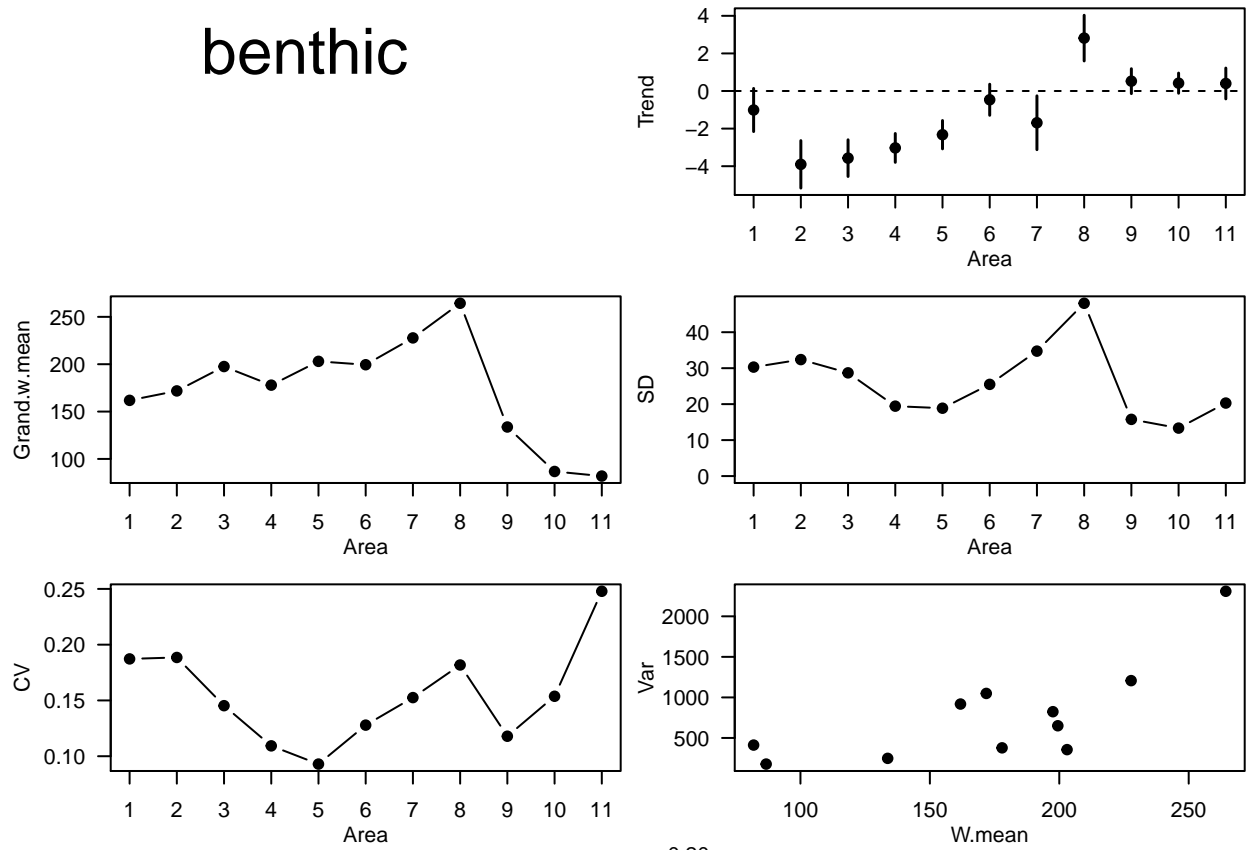


# Guild E

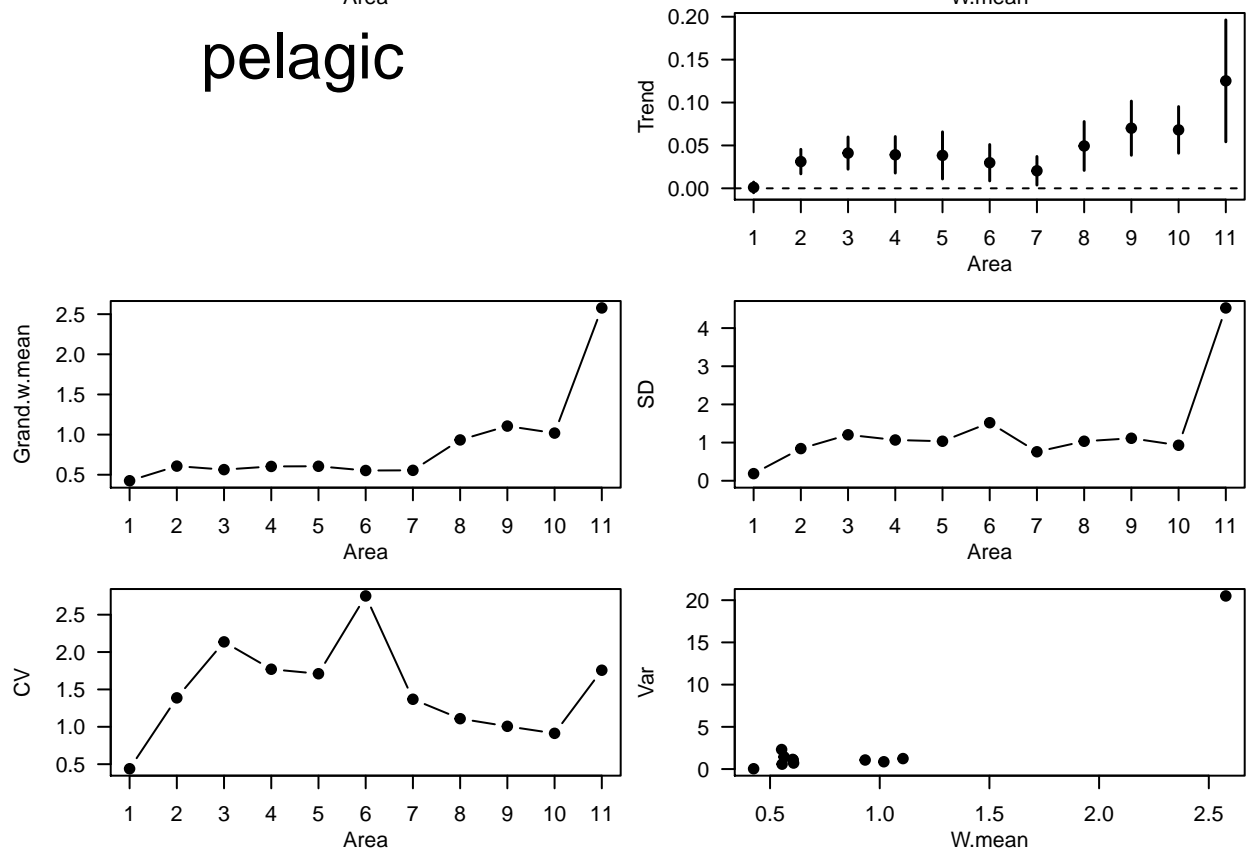


By Benthic vs. Pelagic

# benthic



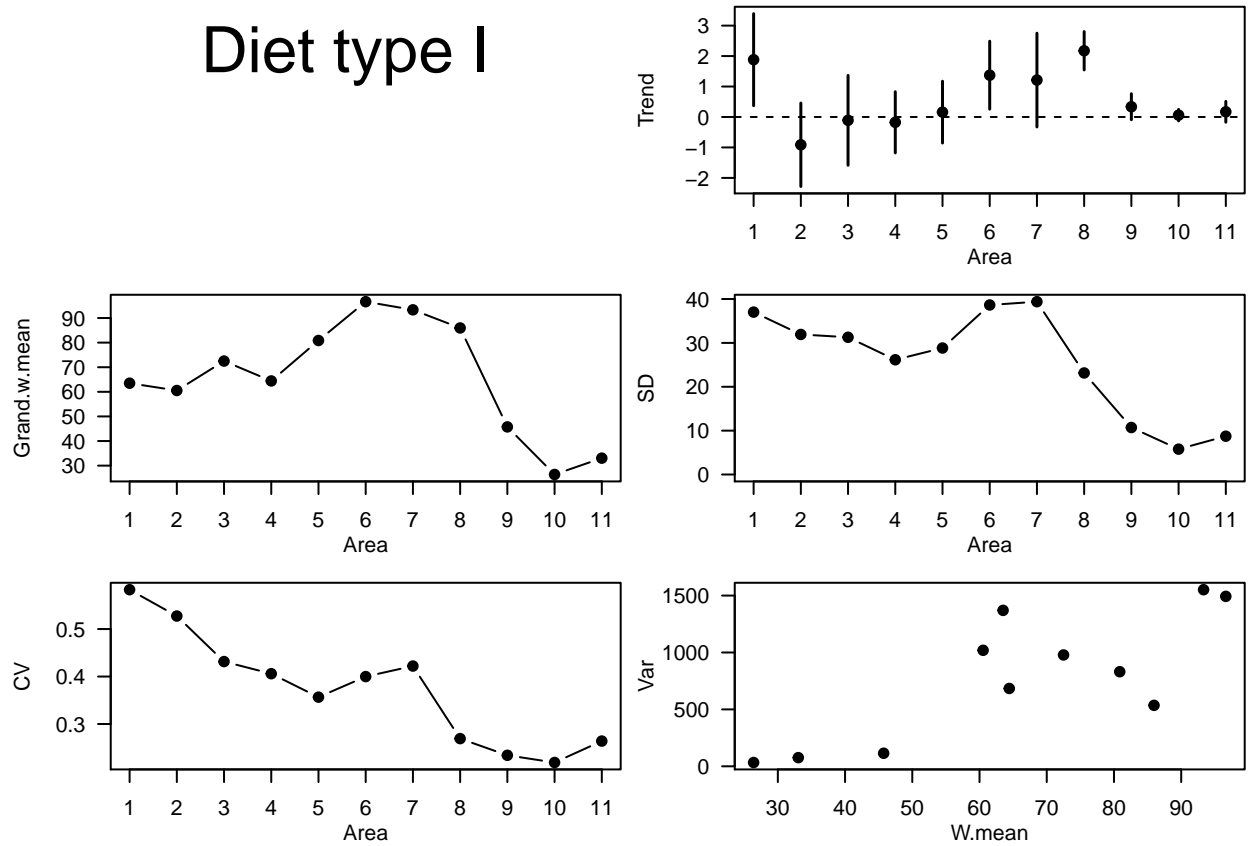
# pelagic



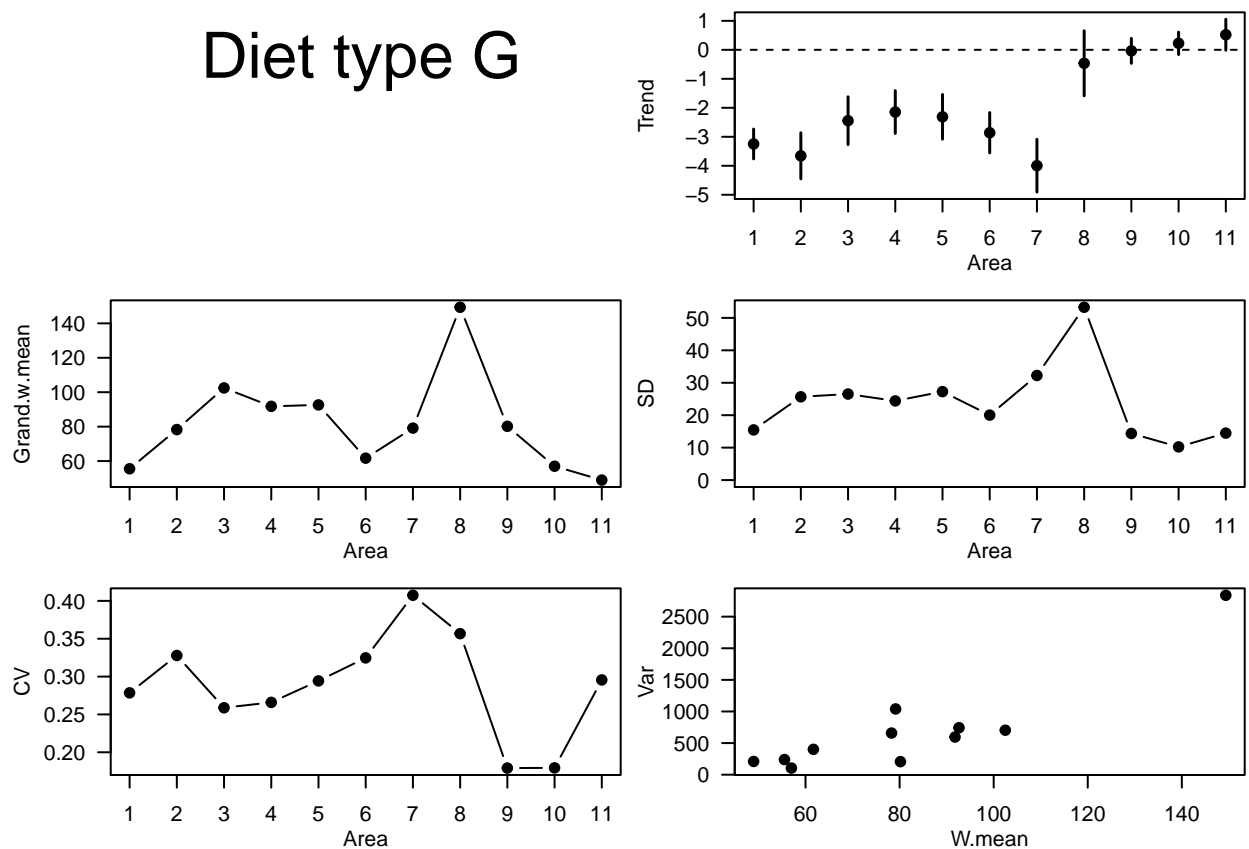
By DIET

- 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

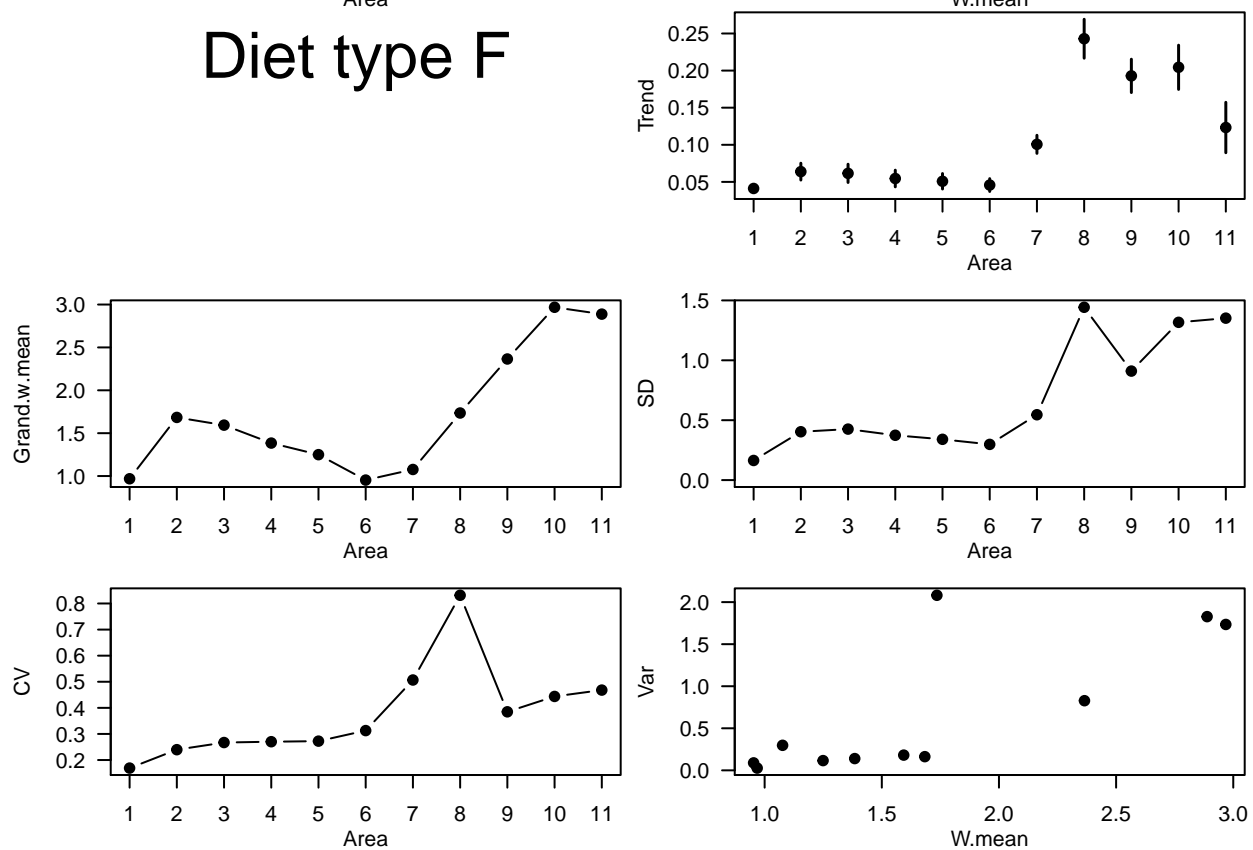
## Diet type I



# Diet type G

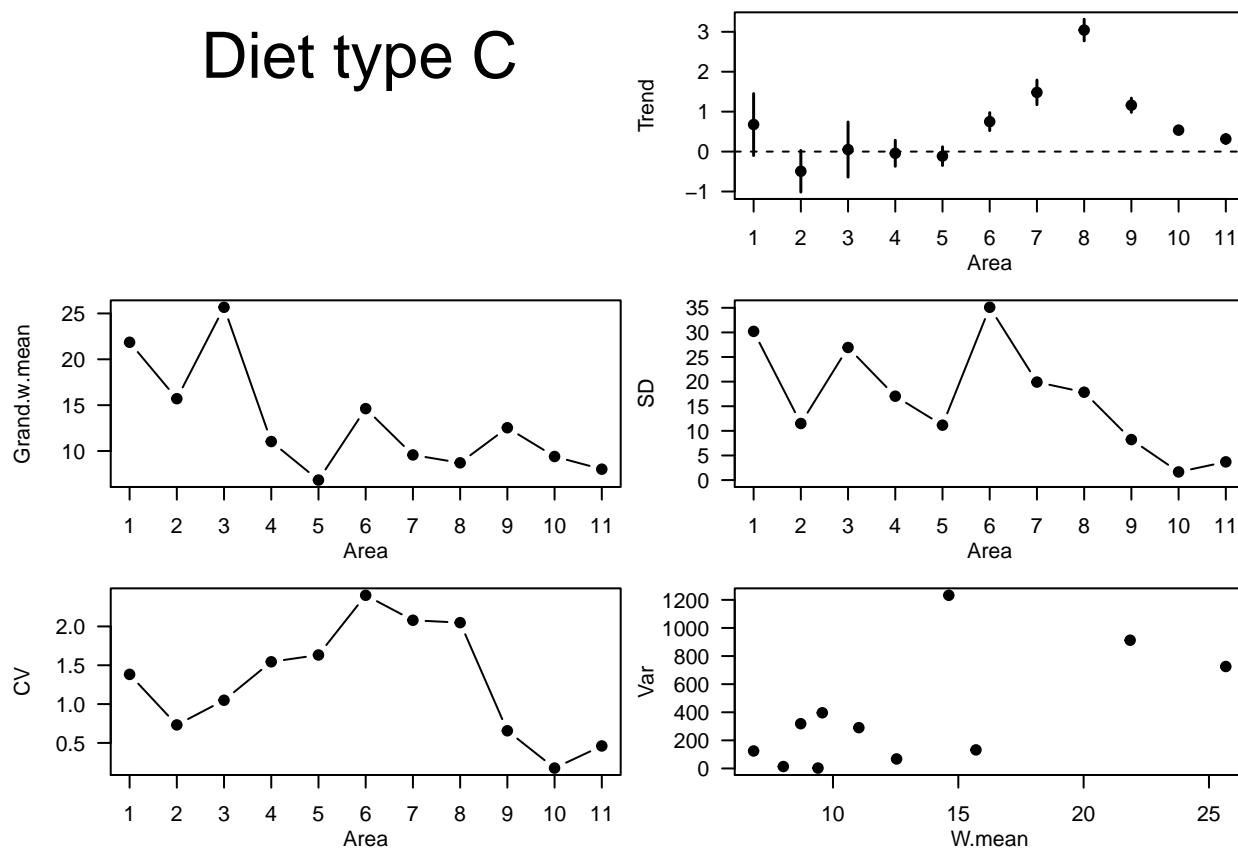


# Diet type F

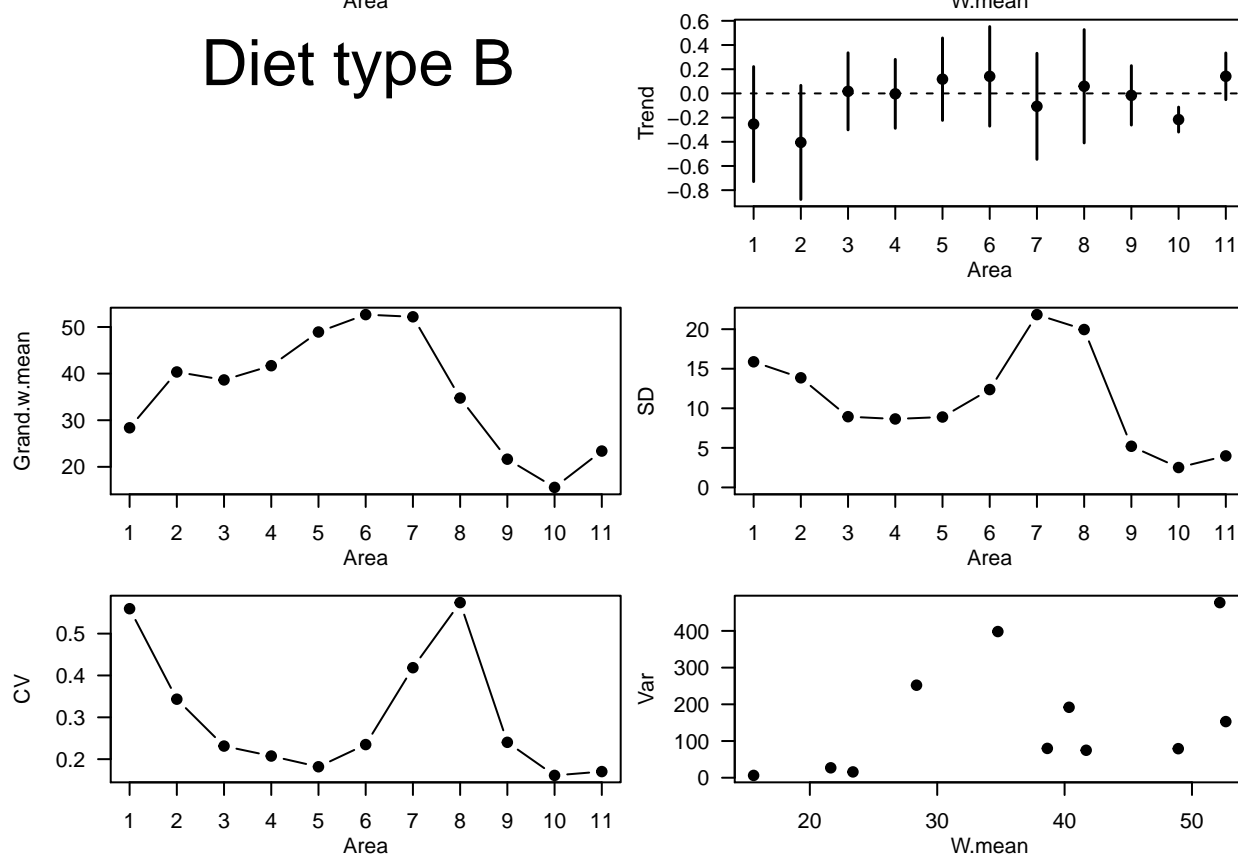




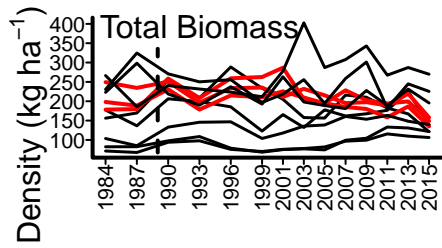
## Diet type C



## Diet type B



OK. Combine Trends in to one file to make a 4x4 array of plots for potential publication-like Figure.



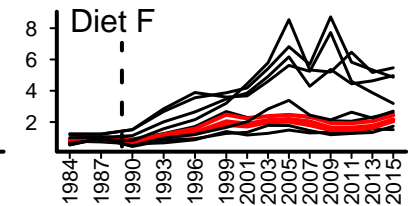
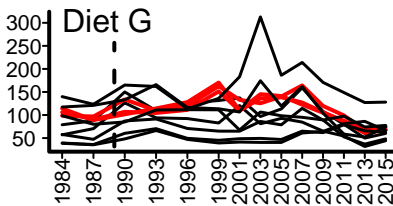
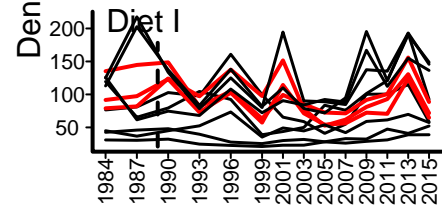
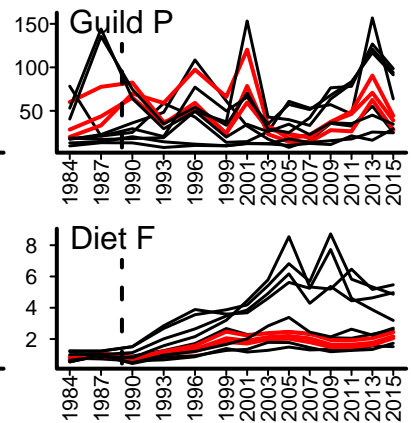
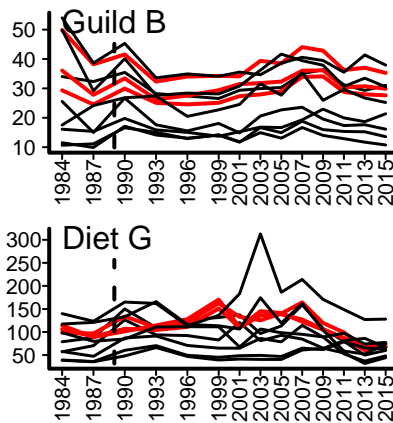
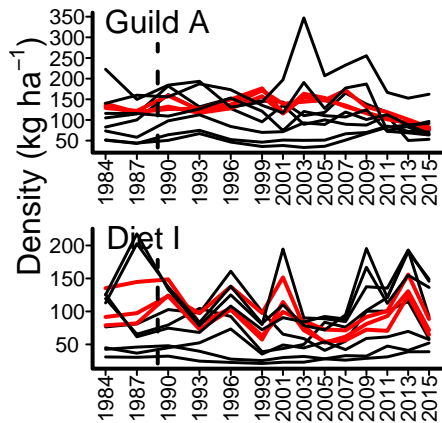
Diversity Metric 1

Diversity Metric 2

Diversity Metric 3

Diversity Metric 4

Diversity Metric 5



Repeat for Trend Estimates