# **Order of Operations for R scripts files**

Shows order of running the scripts to get

* raw data into useable form
* volume and biomass calculations for all data
* other columns useful for organizing and grouping the data

Key:

File Name.R

optional description

the scripts and functions it requires

data files that it creates and where they are saved

02\_dataclean\_propCntd.R

data/MasterFiles/PropCntd\_100\_R.csv

data/MasterFiles/PropCntd\_400.csv

data/MasterFiles/propCntd100\_final.Rdata

data/MasterFiles/propCntd400\_final.Rdata

02\_dataclean\_100\_400.R

data/MasterFiles/100x\_RawCount\_R.csv

data/MasterFiles/400x\_RawCount\_R.csv

data/MasterFiles/propCntd100\_final.Rdata

data/MasterFiles/propCntd400\_final.Rdata

data/MasterFiles/MasterRFiles/raw100\_final.Rdata

data/MasterFiles/MasterRFiles/raw400\_final.Rdata

03\_calcs\_volume.R

scripts/01\_function\_volume.R

data /MasterFiles/MasterRFiles/raw100\_final.Rdata

data/MasterFiles/MasterRFiles/raw400\_final.Rdata

data/Calculations/vol100.Rdata

data/Calculations/vol400.Rdata

03\_calcs\_biomass.R

scripts/01\_function\_biomass.R

data/Calculations/vol100.Rdata

data/Calculations/vol400.Rdata

data/Calculations/volbio100.Rdata

data/Calculations/volbio400.Rdata

03\_calcs\_volbio\_100400.R

scripts/01\_function\_esd.R

data/Calculations/volbio100.Rdata

data/Calculations/volbio400.Rdata

data/MasterFiles/MasterRFiles/volbio\_all.Rdata

data/Clearance Rates/volbio\_all\_cr.Rdata

# **Other R scripts and what they calculate**

03\_calcs\_Mn\_CR\_FR.R (located in the scripts < Clearance Rates folder)

Creates files that calculate the clearance rates and ingestion rates for both cell counts and biomass

data/Clearance Rates/volbio\_all\_cr.Rdata

scripts/01\_function\_clearanceRates.R

scripts/01\_function\_feedingRate.R

03\_calcs\_IntlMean\_Fr.R

Calculates means of the initial samples cpm and bpm

data/Clearance Rates/volbio\_all\_cr.Rdata

scripts/01\_function\_feedingRate.R

03\_calcs\_CrFr\_bySizeSmLg.R

Calculates clearance rate and ingestion rate of the taxa in their small and large size groups

data/Clearance Rates/volbio\_all\_cr.Rdata

scripts/01\_function\_clearanceRates.R

scripts/01\_function\_feedingRate.R

data/Clearance Rates/Feeding Rates/FRcpmBpm.Rdata

04\_plots\_FRgroups.R

Creates plots of ingestion rates by cell counts and biomass in small/large taxa groups

scripts/01\_function\_wimGraph and Palettes.R

data/Clearance Rates/Feeding Rates/FRcpmBpm.Rdata

data/Clearance Rates/Feeding Rates/FrGrps.Rdata

03\_calcs\_SiteWaterCpm.R

Calculates cpm of site water samples

# **Master Source Files**

Raw data excel spreadsheet

DiffDimAll\_Detailed\_Final\_07\_11.xlsx < Micropl Data Detailed < Data Sheets Detailed < Microzoop Data Sheets < Microplankton < Thesis < Documents

Base files for loading into R

Raw Counts:

100x\_RawCount\_R.xlsx

400x\_RawCount\_R.xlsx

Proportion of slide counted (for calculating counts per ml)

PropCntd\_100\_R.xlsx

PropCntd\_400\_R.xlsx

< MasterFiles < data< MicroplanktonAnalysis < R Work < Microplankton < Thesis < Documents