2.11

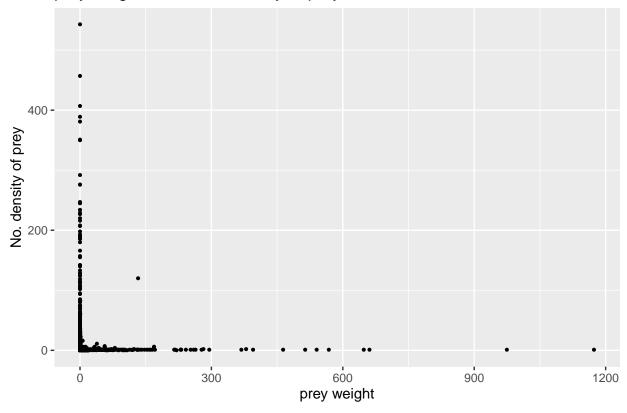
2022-10-27

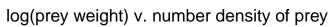
```
## [1] "stom_df"
   # A tibble: 300,538 x 27
##
      sample_id haul_id
                           latit~1 longi~2
                                              day month year ices_~3 pred_~4 pred_~5
##
          <int> <chr>
                             <dbl>
                                     <dbl> <dbl> <dbl> <dbl> <chr>
                                                                         <dbl>
              3 CLYDE-19~
                              55.9
                                     -5.41
                                                         1935 40E4
                                                                        0.0617
                                                                                   2.56
##
   1
                                               NA
                                                     NA
                                                                                  2.56
    2
              3 CLYDE-19~
                              55.9
                                     -5.41
                                               NA
                                                     NA
                                                         1935 40E4
                                                                        0.0617
    3
              3 CLYDE-19~
                              55.9
                                     -5.41
                                                         1935 40E4
                                                                                   2.56
##
                                               NA
                                                     NA
                                                                        0.0617
##
    4
              3 CLYDE-19~
                              55.9
                                     -5.41
                                               NA
                                                     NA
                                                         1935 40E4
                                                                        0.0617
                                                                                   2.56
##
    5
              3 CLYDE-19~
                              55.9
                                     -5.41
                                               NA
                                                     NA
                                                         1935 40E4
                                                                        0.0617
                                                                                  2.56
##
             10 CLYDE-19~
                              55.9
                                     -5.41
                                                         1935 40E4
                                                                        0.550
                                                                                   4.9
    6
                                               NA
                                                     NA
##
    7
             10 CLYDE-19~
                              55.9
                                     -5.41
                                               NA
                                                         1935 40E4
                                                                        0.550
                                                                                   4.9
##
             10 CLYDE-19~
                              55.9
                                     -5.41
                                                         1935 40E4
                                                                                   4.9
    8
                                               NA
                                                     NA
                                                                        0.550
##
    9
             10 CLYDE-19~
                              55.9
                                     -5.41
                                               NA
                                                     NA
                                                         1935 40E4
                                                                        0.550
                                                                                   4.9
             10 CLYDE-19~
                              55.9
                                     -5.41
                                                         1935 40E4
                                                                        0.550
                                                                                   4.9
## 10
                                               NA
                                                     NA
     ... with 300,528 more rows, 17 more variables: n_stomachs <dbl>,
       bin_number <int>, pred_aphiaID <dbl>, pred_taxa <chr>, pred_species <chr>,
       prey_taxa <chr>, prey_aphiaID <dbl>, prey_species <chr>, prey_count <dbl>,
## #
       prey_ind_weight_g <dbl>, prey_weight_g <dbl>, prey_funcgrp <chr>,
       gprey_perpred <dbl>, nprey_perpred <dbl>, ppmr <dbl>, data <chr>,
## #
## #
       guild <fct>, and abbreviated variable names 1: latitude, 2: longitude,
       3: ices_rectangle, 4: pred_weight_g, 5: pred_length_cm
## # i Use 'print(n = ...)' to see more rows, and 'colnames()' to see all variable names
## # A tibble: 300,538 x 12
##
      haul_id latit~1 longi~2 year pred_~3 pred_~4 pred_~5 prey_~6 prey_~7 indiv~8
##
      <chr>
                 <dbl>
                         <dbl> <dbl> <chr>
                                                <dbl>
                                                        <dbl> <chr>
                                                                       <chr>
                                                                                  <dbl>
                                                                       zoopla~ 6.5 e-5
    1 CLYDE-~
                 55.9
                         -5.41
                                1935 Clupea~
                                               0.0617
                                                         2.56 <NA>
##
##
    2 CLYDE-~
                 55.9
                         -5.41
                                1935 Clupea~
                                              0.0617
                                                         2.56 <NA>
                                                                       zoopla~ 6.5 e-5
##
    3 CLYDE-~
                 55.9
                         -5.41
                                1935 Clupea~
                                              0.0617
                                                         2.56 <NA>
                                                                       zoopla~ 5.4 e-5
##
   4 CLYDE-~
                 55.9
                         -5.41
                                1935 Clupea~
                                              0.0617
                                                         2.56 <NA>
                                                                       zoopla~ 5.4 e-5
##
    5 CLYDE-~
                 55.9
                         -5.41
                                1935 Clupea~
                                              0.0617
                                                         2.56 <NA>
                                                                       zoopla~ 1.60e-3
##
    6 CLYDE-~
                 55.9
                         -5.41
                                1935 Clupea~
                                              0.550
                                                         4.9
                                                              <NA>
                                                                       zoopla~ 6.5 e-5
    7 CLYDE-~
                 55.9
                         -5.41
                                1935 Clupea~
                                               0.550
                                                         4.9
                                                               <NA>
                                                                       zoopla~ 5.4 e-5
    8 CLYDE-~
                 55.9
##
                         -5.41
                                1935 Clupea~
                                               0.550
                                                         4.9
                                                               <NA>
                                                                       zoopla~ 5.4 e-5
    9 CLYDE-~
                 55.9
                         -5.41
                               1935 Clupea~
                                               0.550
                                                         4.9
                                                              Centro~ zoopla~ 1.8 e-4
## 10 CLYDE-~
                 55.9
                         -5.41 1935 Clupea~
                                              0.550
                                                         4.9 Centro~ zoopla~ 1.8 e-4
     ... with 300,528 more rows, 2 more variables: no._prey_per_stmch <dbl>,
       ppmr <dbl>, and abbreviated variable names 1: latitude, 2: longitude,
       3: pred_species, 4: pred_weight_g, 5: pred_length_cm, 6: prey_species,
       7: prey_type, 8: indiv_prey_weight
## # i Use 'print(n = ...)' to see more rows, and 'colnames()' to see all variable names
```

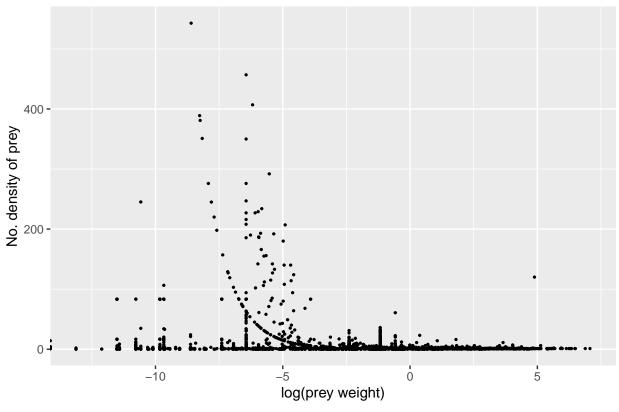
[1] FALSE

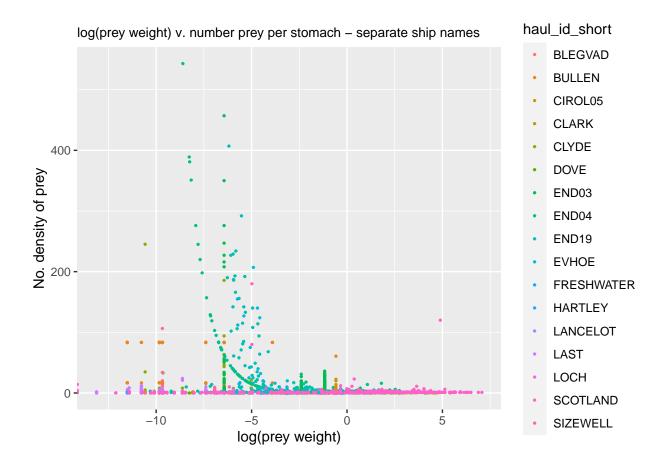
- ## [1] FALSE
- ## [1] TRUE

prey weight v. number density of prey

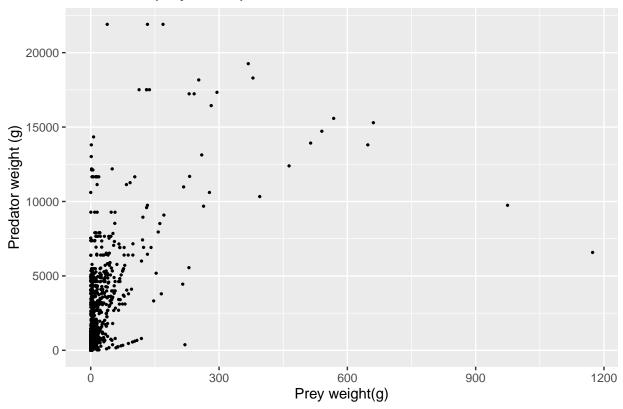






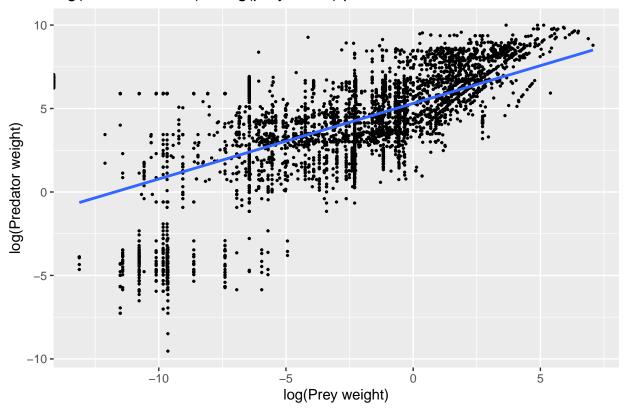


Predator v. prey mass plot



'geom_smooth()' using formula 'y ~ x'

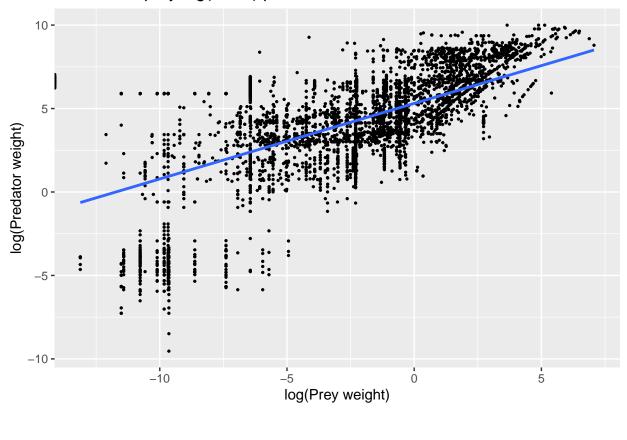
log(Predator mass) v. log(prey mass) plot



```
## (Intercept) df_smaller$indiv_prey_weight
## 535.96347 28.74321
```

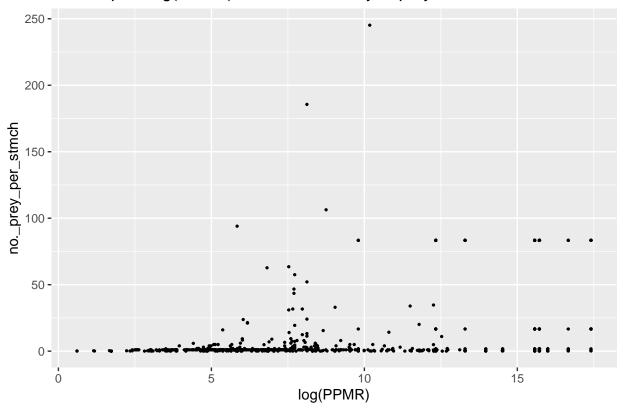
'geom_smooth()' using formula 'y ~ x'

Predator v. prey log(mass) plot

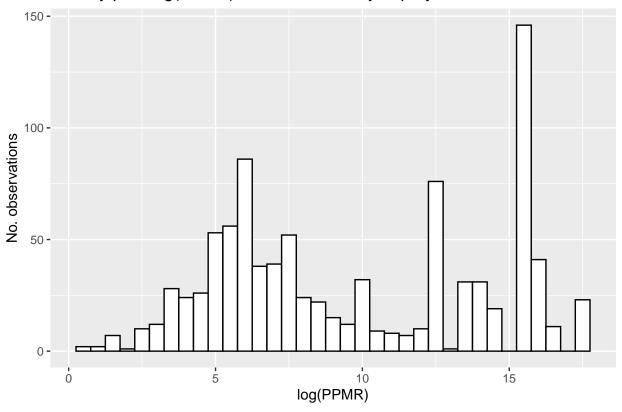


 $\log(\text{PPMR})$ v. number density of prey

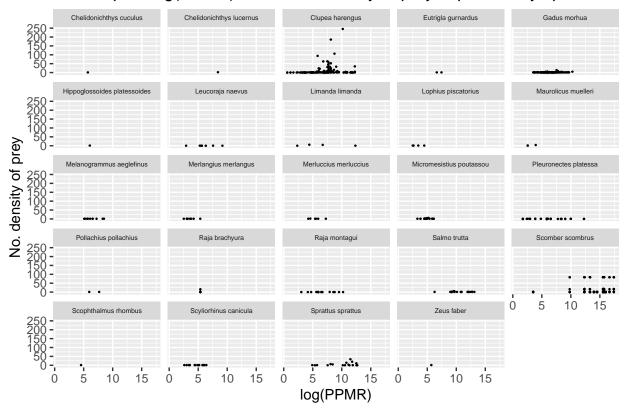
Scatter plot: log(PPMR) v. number density of prey



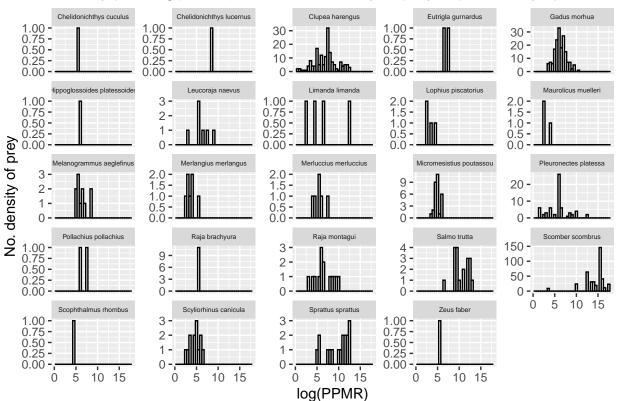
Density plot: log(PPMR) v. number density of prey



Scatter plot: log(PPMR) v. number density of prey separated by species



Density plot: log(PPMR) v. number density of prey separated by species



Density plot: log(PPMR) v. number density of prey separated by s

