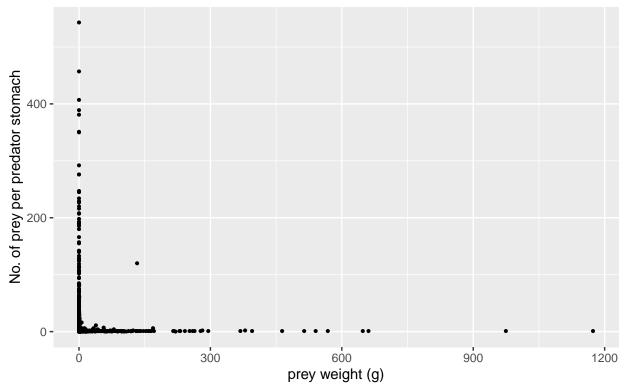
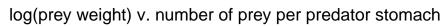
2.11

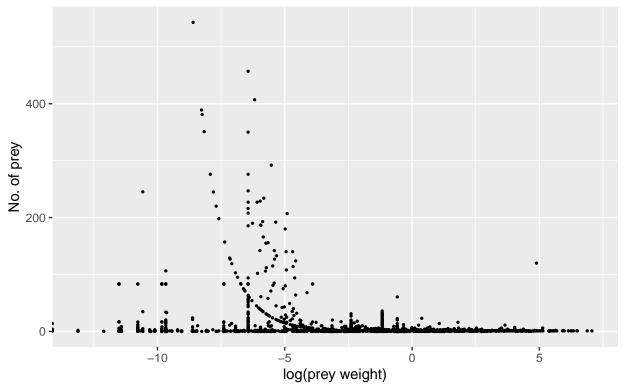
2022-10-27

#### prey weight v. number of prey per stomach

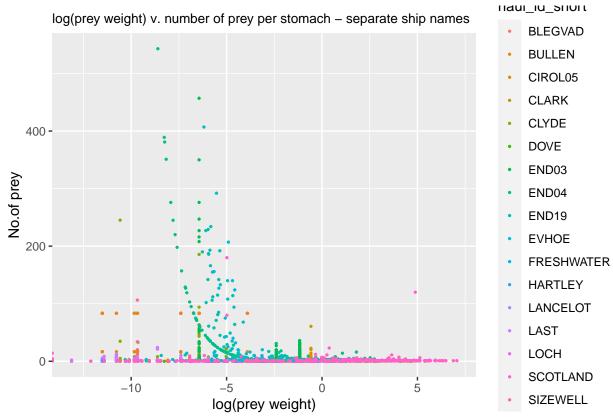


Playing around with data to see any specific correlations; what is the distribution of the weight of prey recorded



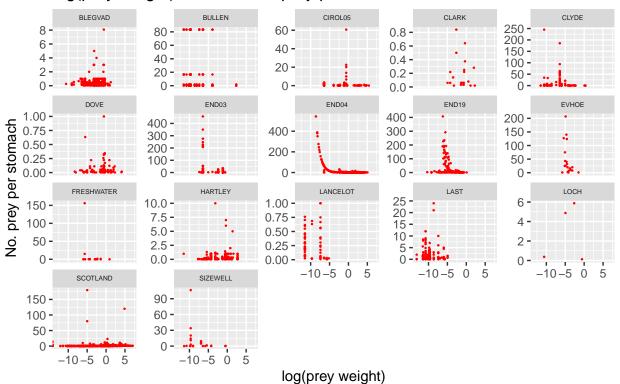


Identifying any 'interesting' looking outputs



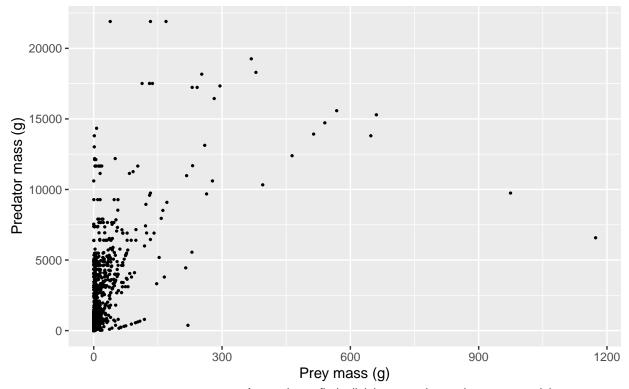
is they were sampled by; shows data lying on a surprsingly nice curve for one of the boats

#### log(prey weight) v. number of prey per stomach



· END04, lots of observations for single weights for LANCELOT; lots of the same no. of fish observations for BULLEN

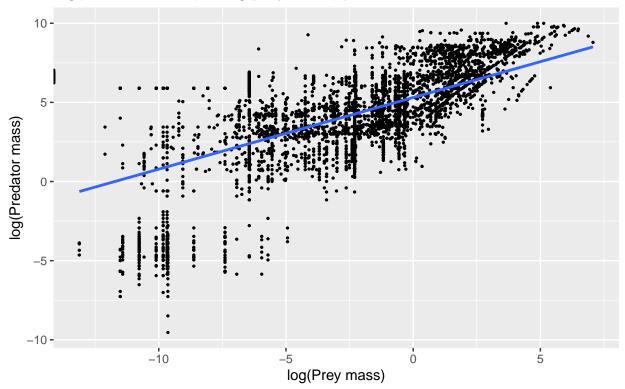
#### Predator v. prey mass plot



Attempting to find a link between the predator mass and the prey mass

## 'geom\_smooth()' using formula 'y ~ x'

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

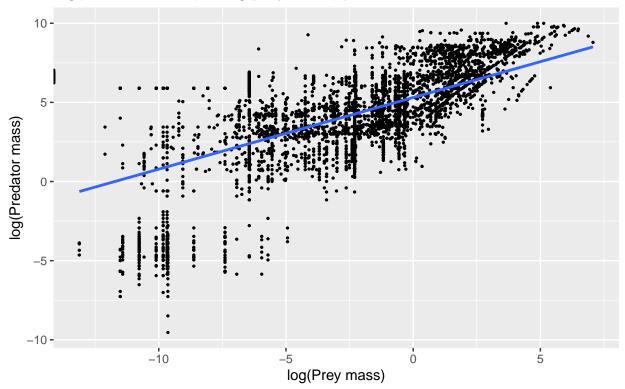


Using log() to see proportionality of the axes, slope of added line should = PPMR

```
## (Intercept) log(prey_weight_fixed)
## 5.3070319 0.4525842
```

## 'geom\_smooth()' using formula 'y ~ x'

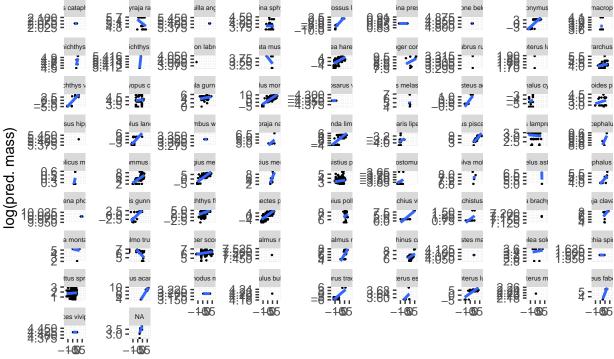
## log(Predator mass) v. log(prey mass) plot



Using log() to see proportionality of the axes, slope of added line should = PPMR

## 'geom\_smooth()' using formula 'y ~ x'

log(pred. mass) v. log(prey mass) separated by predator species

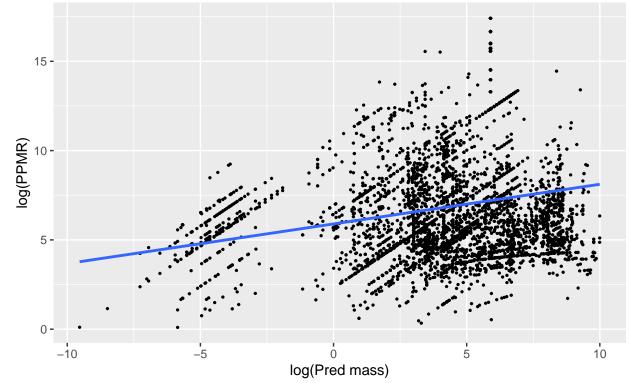


#### log(prey mass)

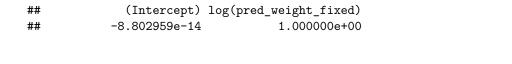
pe should intersect the y-axis at 0, else our idea for PPMR calculation (pred mass is prop. to prey mass) is incorrect.

## 'geom\_smooth()' using formula 'y ~ x'

## log(pred mass) v. log(ppmr) plot

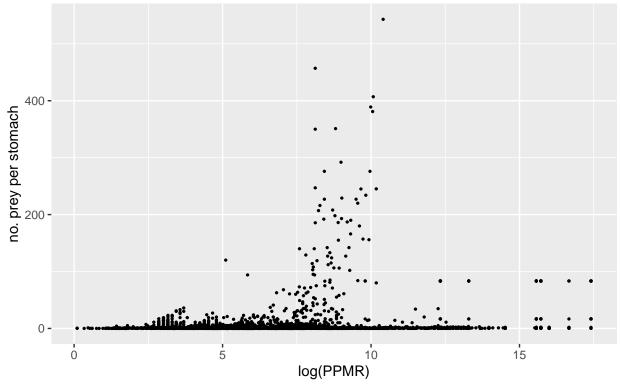


The slope is not =1, so the PPMR is indept. of pred. mass (as desired)



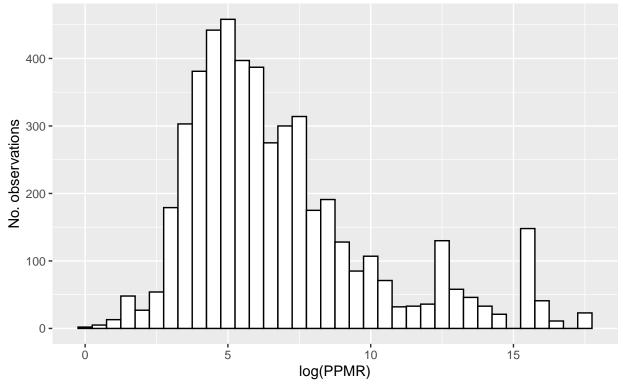
 $\#\#\#\log(\text{PPMR})$ v. number density of prey

## Scatter plot: log(PPMR) v. no. of prey per stomach



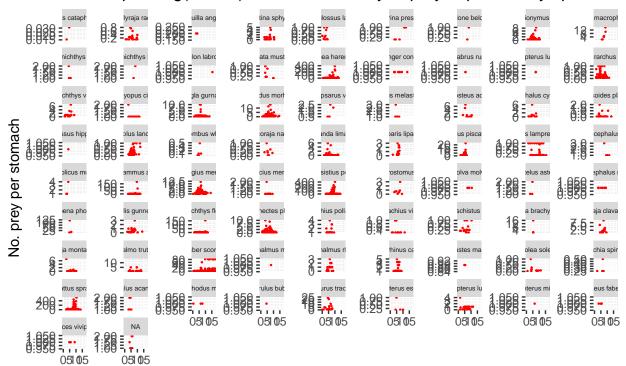
Trying to find the most common PPMR over all the fish

## Histogram: log(PPMR) v. number of observations



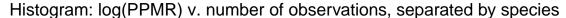
rvation for each value of log(PPMR), i.e. seeing more clearly what the most common PPMR is across all fish species

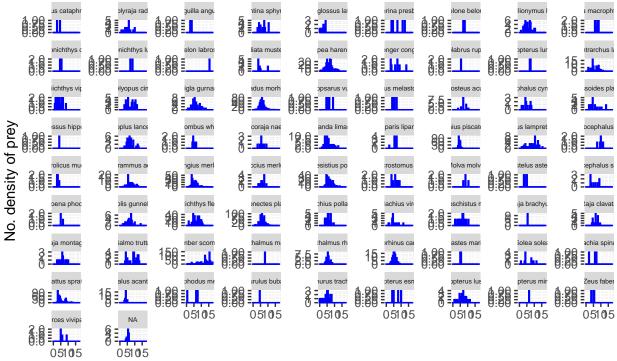
#### Scatter plot: log(PPMR) v. number density of prey separated by species



log(PPMR)

looking for the most common PPMR for each individual species





log(PPMR)

most common PPMR per species in a clearer way - the most common should be the one with the single largest bar

# Histogram: log(PPMR) v. number density of prey separated by spe

