

Lump Manuscript Figures

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Table 1: Data points and year spanned per source of all data points

Data Code	Years Spanned	Number of datapoints
MA_DMF	1978-2021	120
ME_DMR	2000-2021	1357
NH_FG	1997-2015	104
NOAA_Observer	1989-2023	10443
NEFSC	1963-2021	649
TOTAL	1963-2023	12673

Table 2: Data points and year spanned per source of occurrences

Data Code	Years Spanned	Number of datapoints
MA_DMF	1978-2021	65
ME_DMR	2000-2021	655
NH_FG	1997-2015	44
NOAA_Observer	1989-2023	10040
NEFSC	1963-2021	503
TOTAL	1963-2023	11307

Table 3: Number of fish caught per geartype in NOAA Observer Data

Gear Type	Count
TRAWL,OTTER,BOTTOM,FISH	9410
GILL NET, FIXED OR ANCHORED,SINK, OTHER/NK SPECIES	644
TRAWL,OTTER,MIDWATER PAIRED	103
DREDGE, SCALLOP,SEA	59
TRAWL,OTTER,MIDWATER	54
TRAWL,OTTER,BOTTOM,SHRIMP	48
GILL NET,DRIFT-SINK, FISH	47
TRAWL,OTTER,BOTTOM,HADDOCK SEPARATOR	47
TRAWL,OTTER,BOTTOM,TWIN	10
TRAWL,OTTER,BOTTOM PAIRED	6
LONGLINE, BOTTOM	5
DREDGE, OTHER/NK SPECIES	2
POT/TRAP, LOBSTER OFFSH NK	2

Gear Type	Count
SCOTTISH SEINE	2
TRAWL,OTTER,BOTTOM,RUHLE	2
HANDLINE	1
TRAWL,SHRIMP,TWINNED	1

Age and Bayesian Weights

Note: Datapoints without lengths were excluded from the following as there was no way to calculate Bayes Weights or Ages

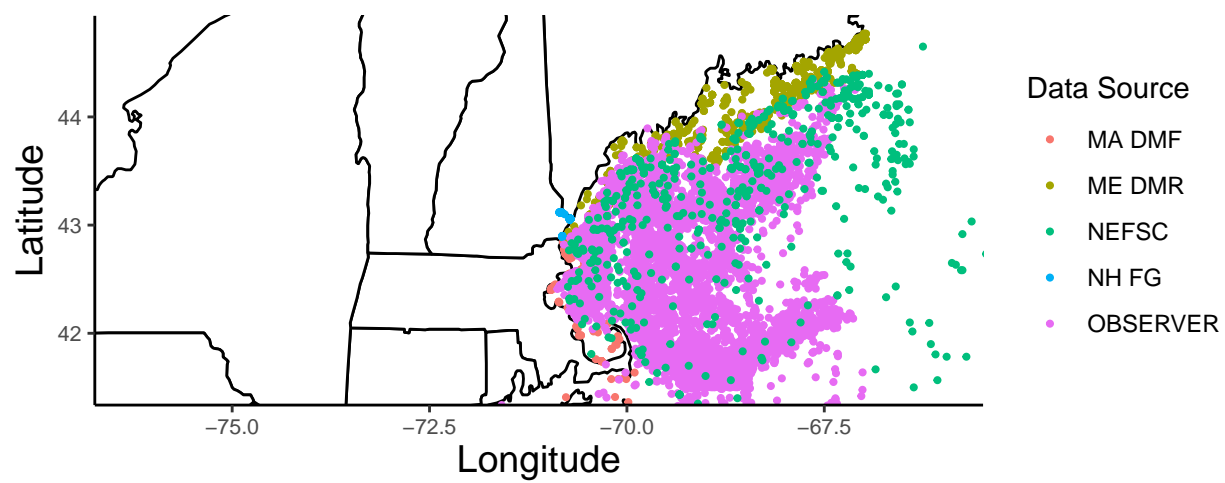


Figure 1: Datapoints per source

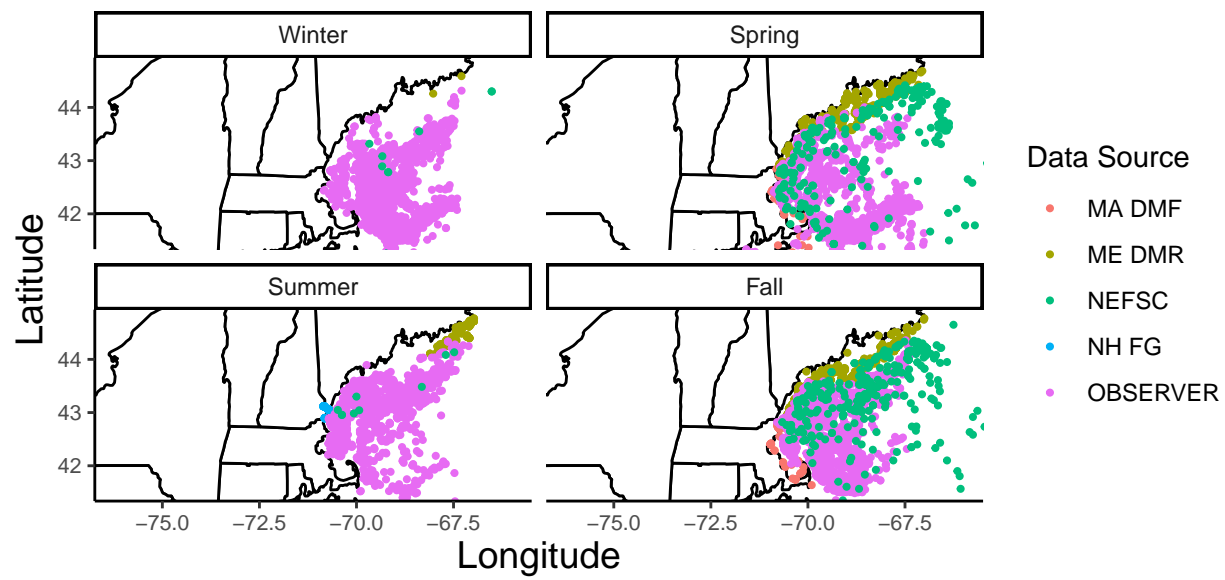


Figure 2: Datapoints per season

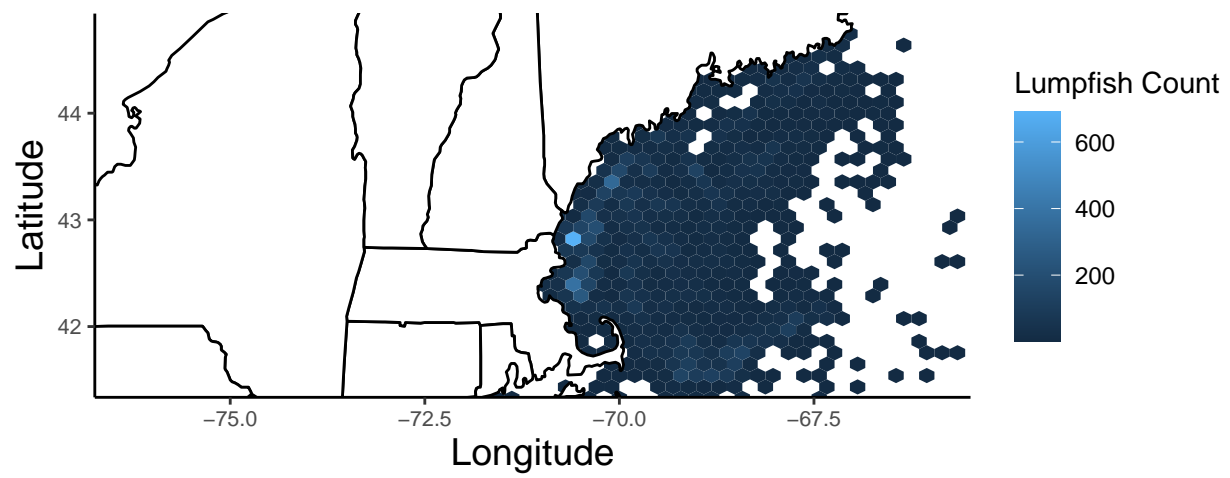


Figure 3: Distribution of Lumpfish from all datasets

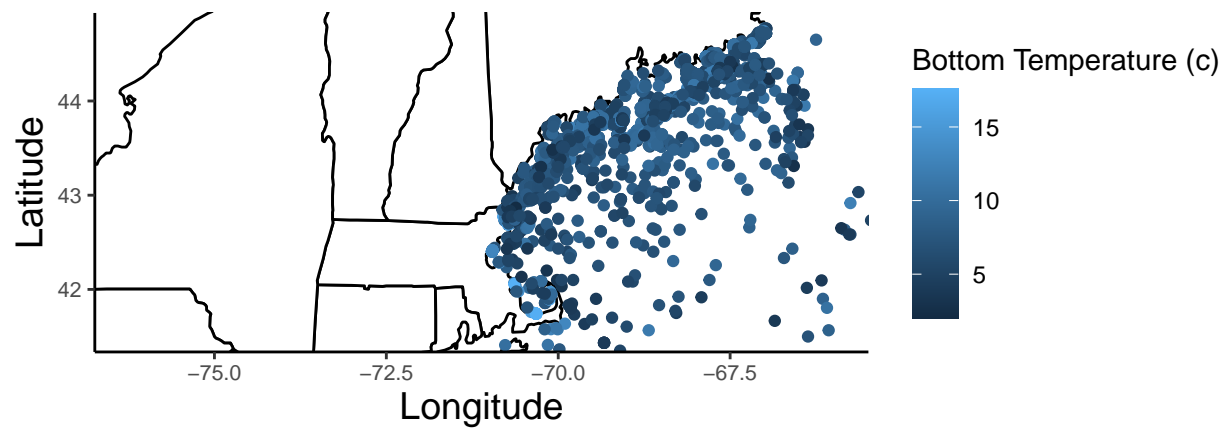


Figure 4: Bottom temperature of catch

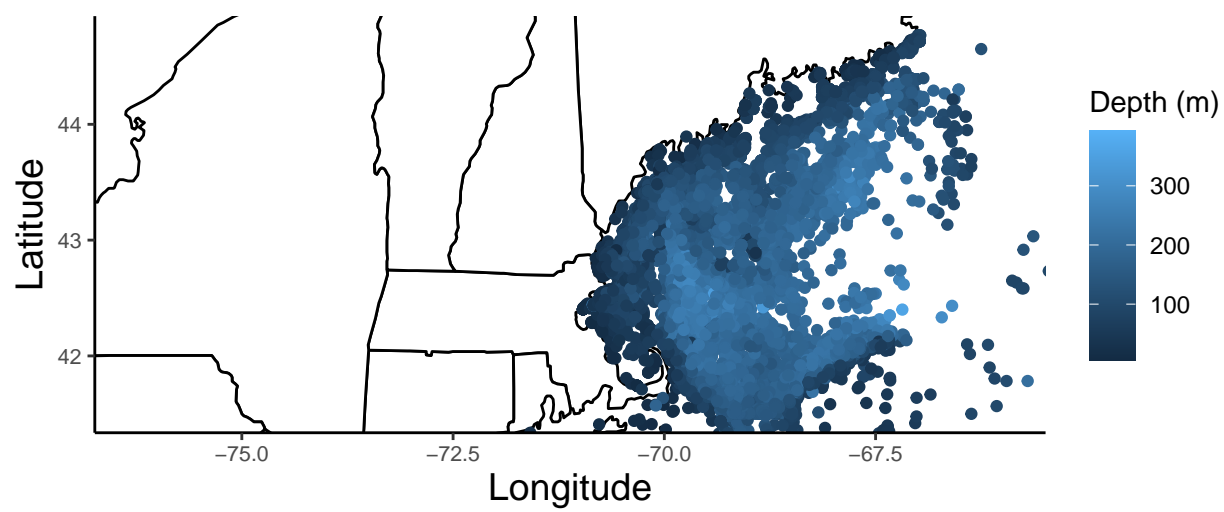


Figure 5: Depth of each lumpfish occurrence

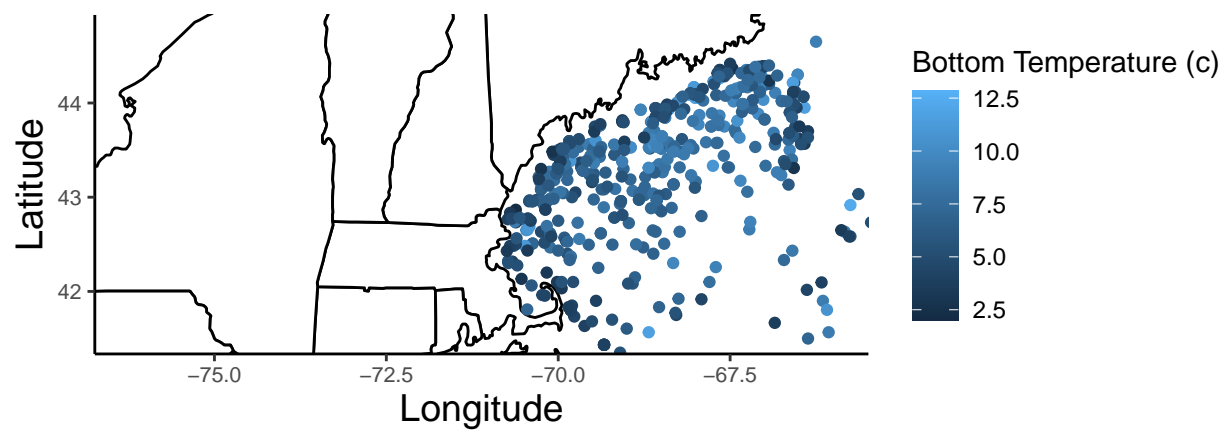


Figure 6: Bottom temperature of catch in NEFSC dataset

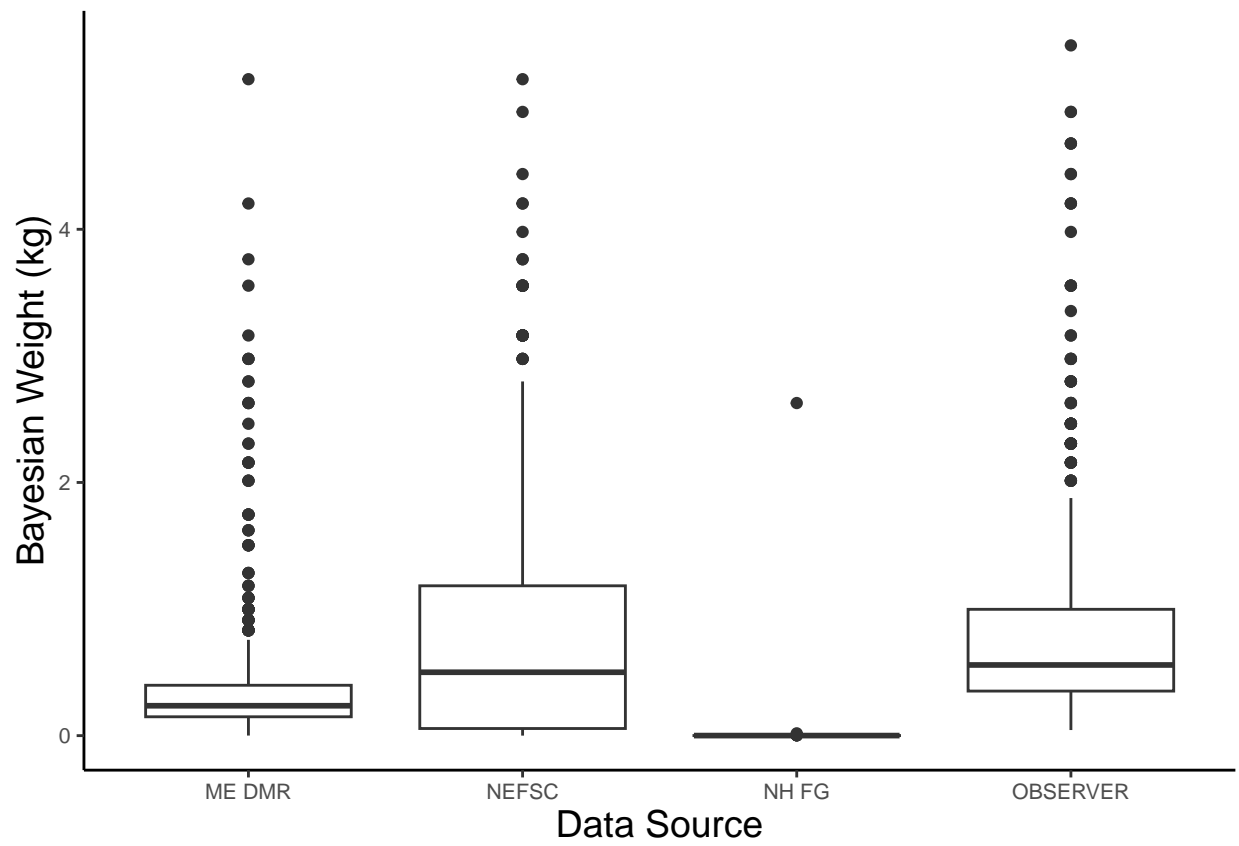


Figure 7: Range of calculated Bayesian weights per datasource. MA DMF did not report lengths so were not included in this graph

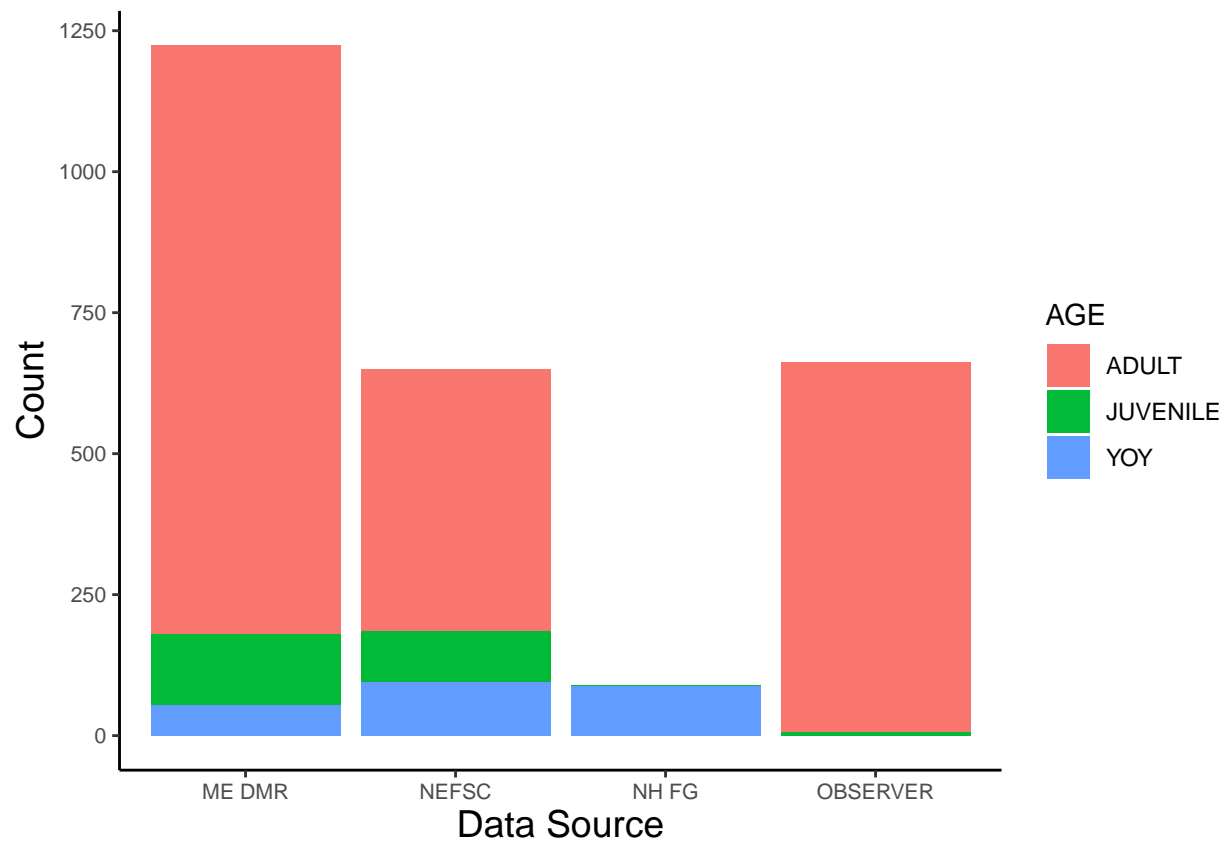


Figure 8: Age of fish caught by each Data Source. MA DMF did not report lengths so were not included in this graph

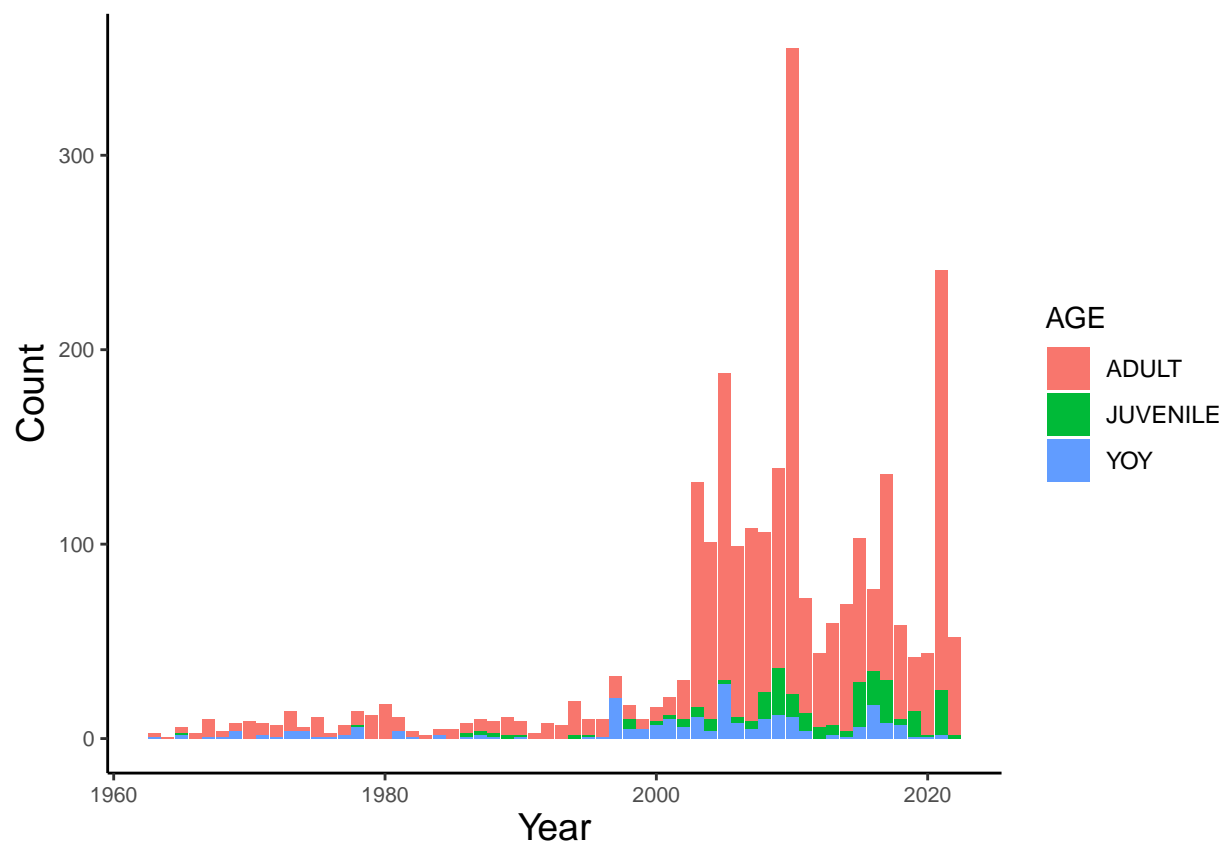


Figure 9: Number of datapoints per year separated by age

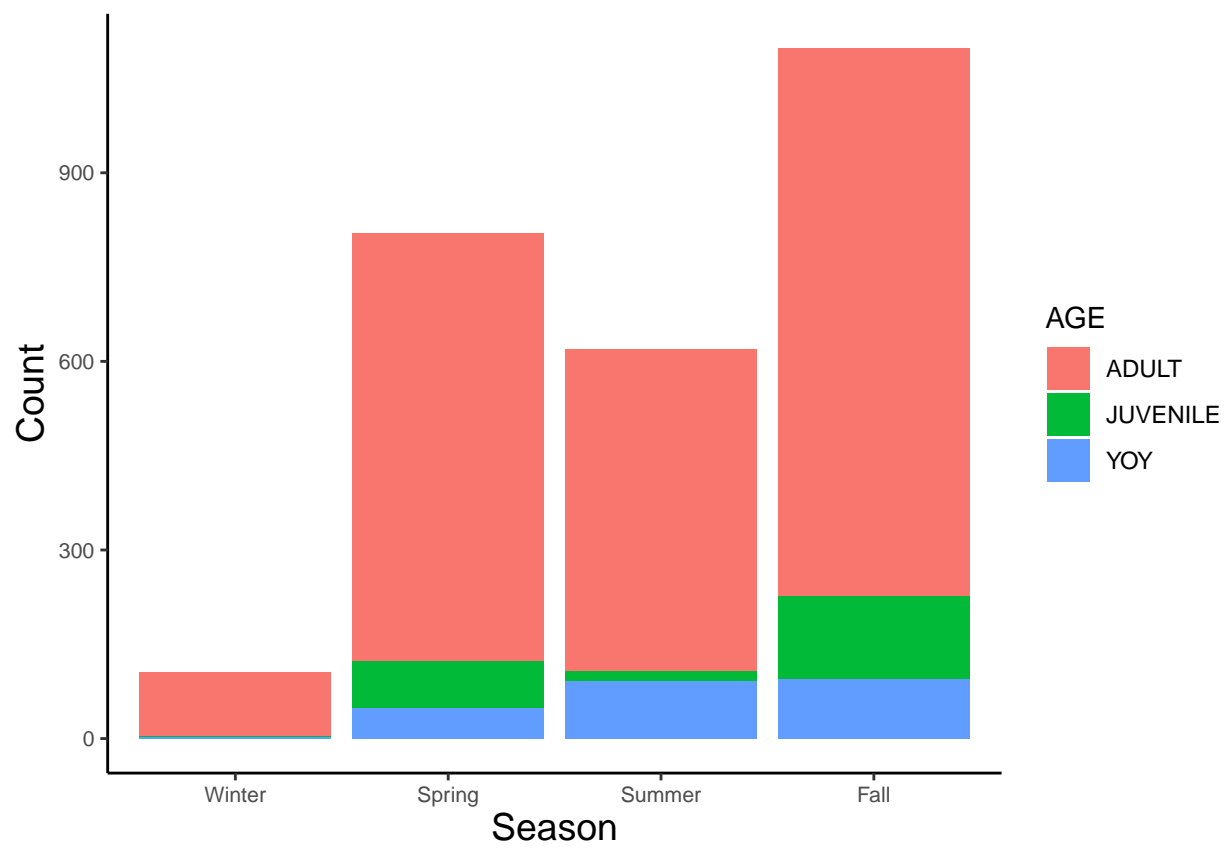


Figure 10: Number of datapoints per season separated by age

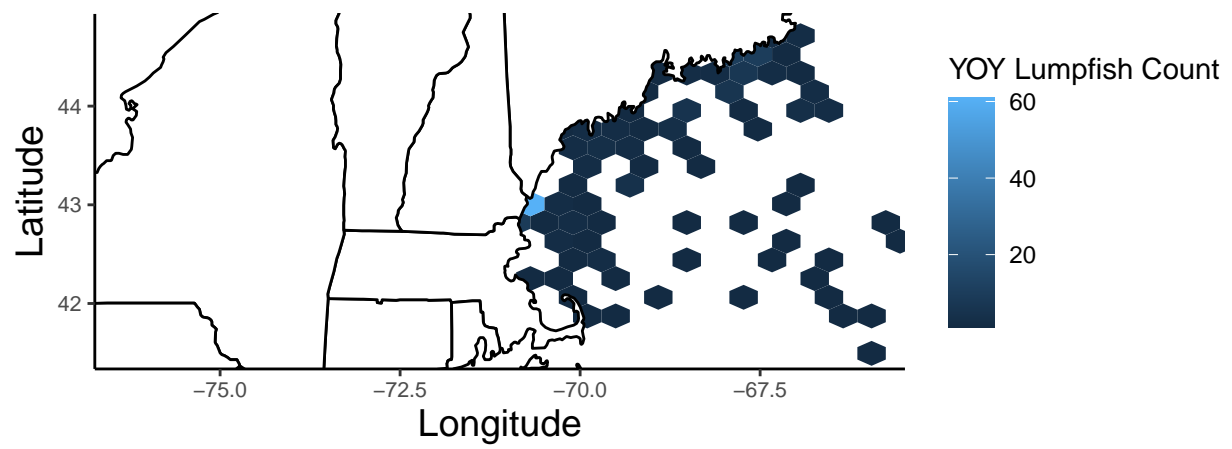


Figure 11: Distribution of YOY Lumpfish

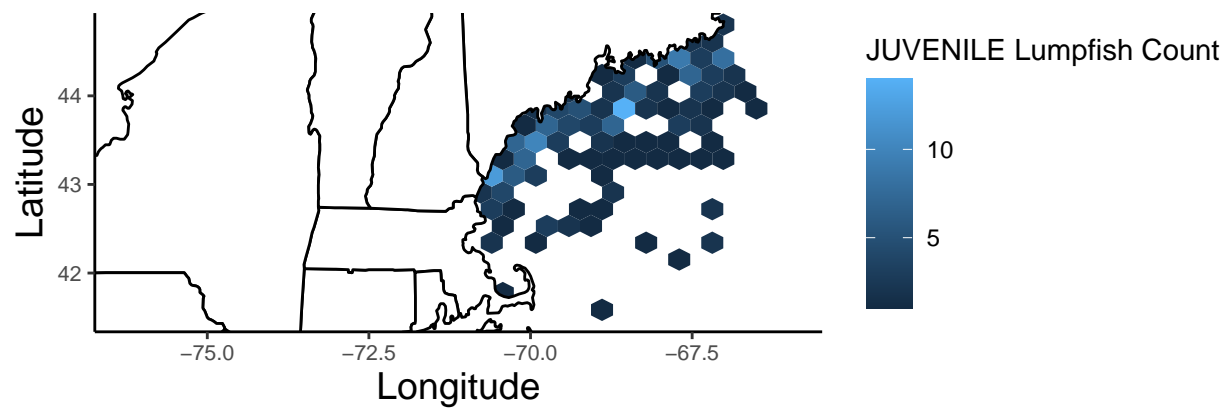


Figure 12: Distribution of Juvenile Lumpfish

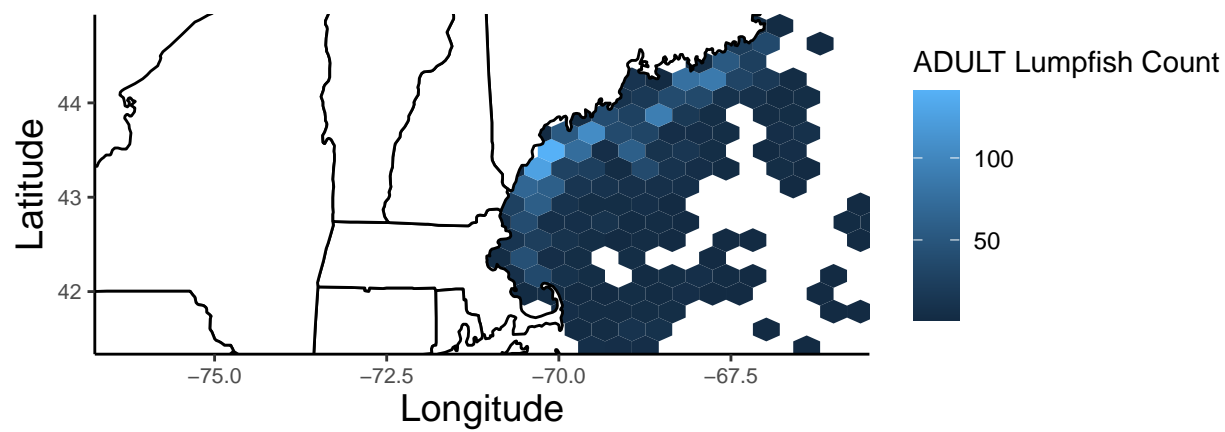


Figure 13: Distribution of Adult Lumpfish