

Explore Fish Density 2017-2018: Figures

Sean Kinard

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Figure 1 - Density vs Rainfall: Boxplot

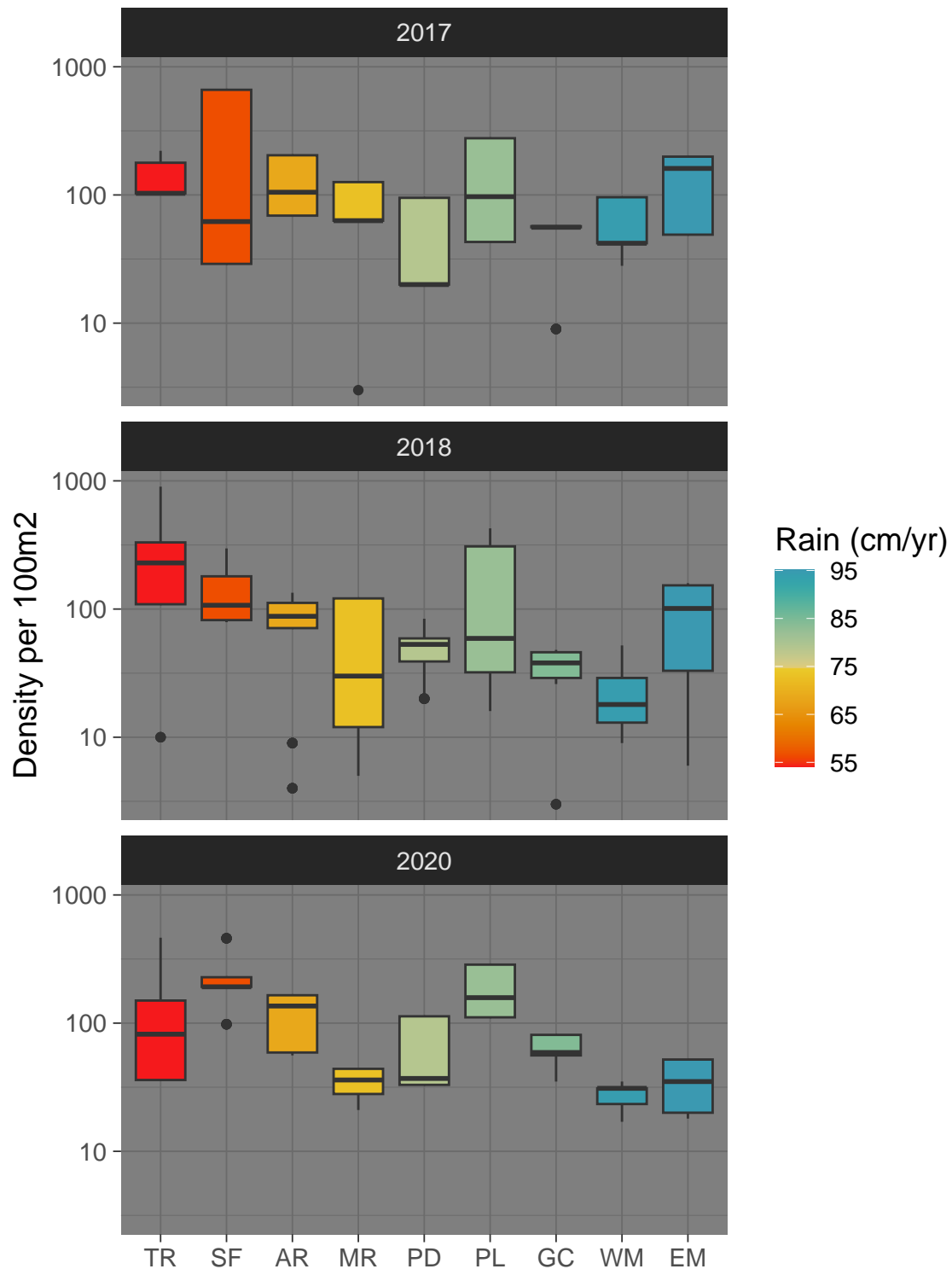


Figure 1. Density of fish (100m^{-2}) at each sampling location from from 2017, 2018, and 2020. 2017 contains 3 months following hurricane Harvey, 2018 contains monthly samples from January through October, and 2020 contains quarterly sampling.

Figure 2 - Density vs Diatom Concentration

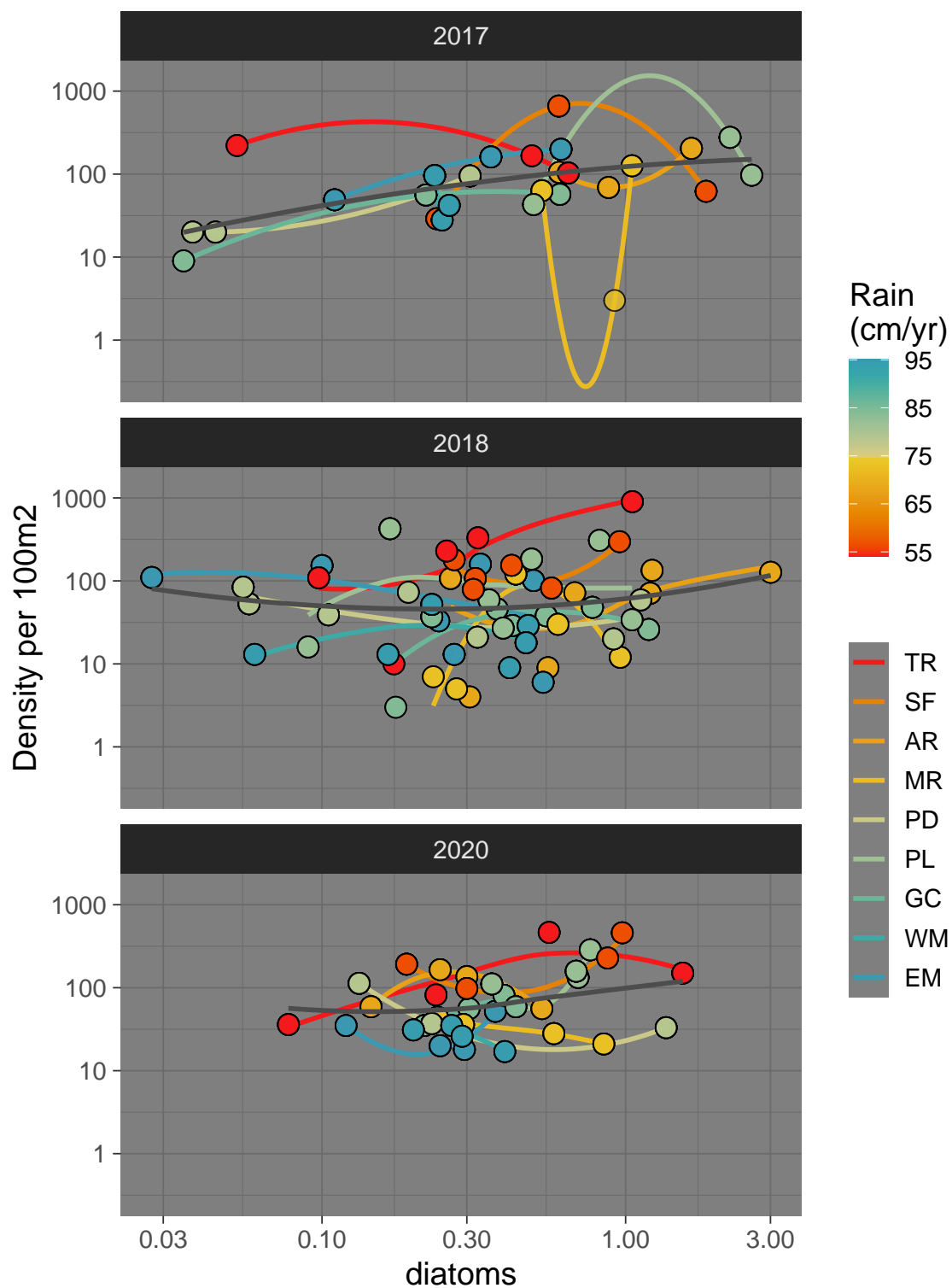


Figure 2. Community density (100m^{-2}) versus diatom chlorophyll concentrations for 2017, 2018, and 2020. Both axes are log transformed.

Figure 3 - Density vs 2-Week Maximum Discharge

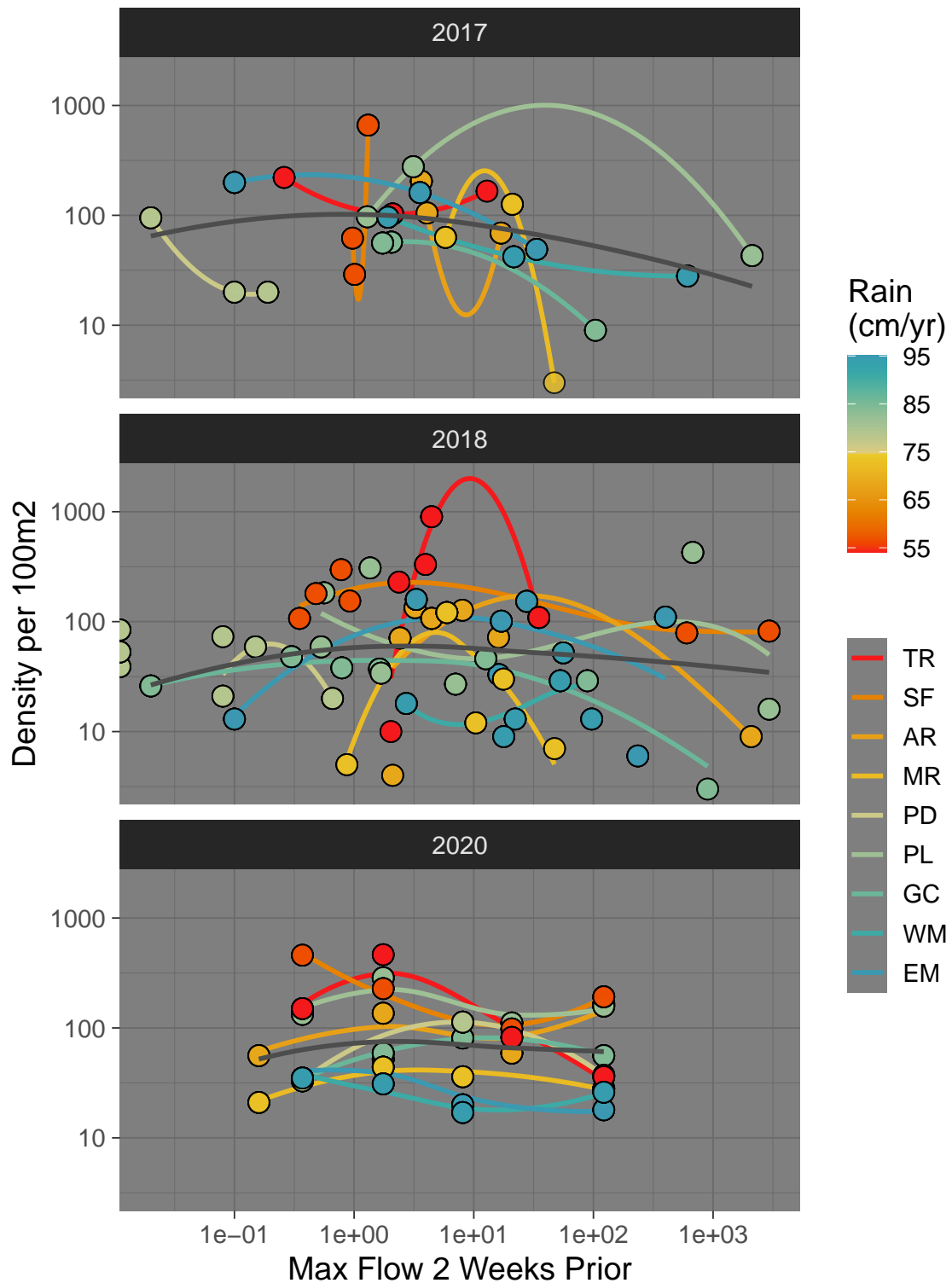


Figure 3. Community density (100m⁻²) versus maximum discharge in the two weeks prior to sampling for 2017, 2018, and 2020. Both axes are log transformed.

Figure 4 - Density vs Nitrate Concentrations

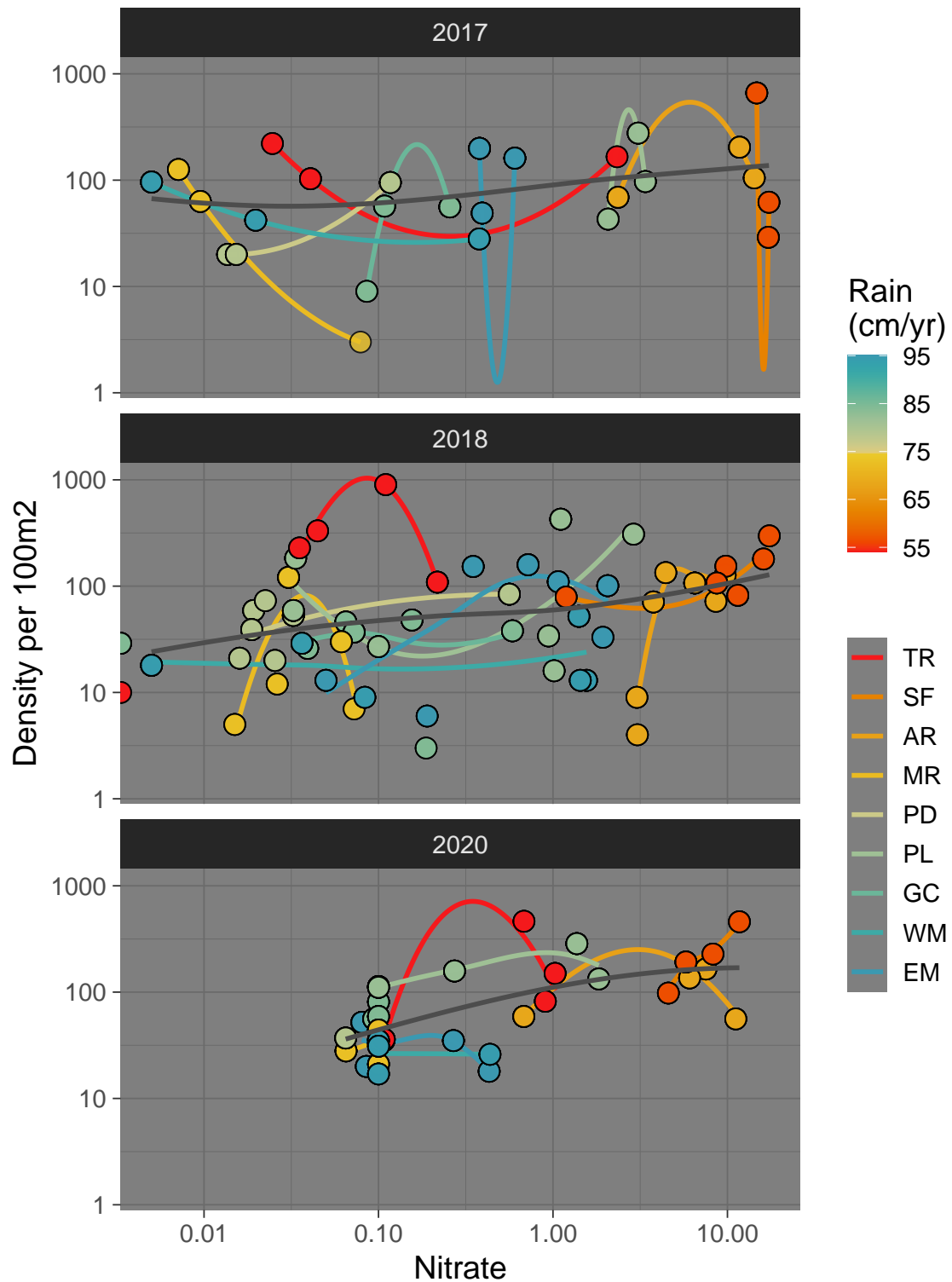


Figure 4. Community density (100m^{-2}) versus nitrate concentrations for 2017, 2018, and 2020. Both axes are log transformed.

Figure 5 - Density vs Time: Community

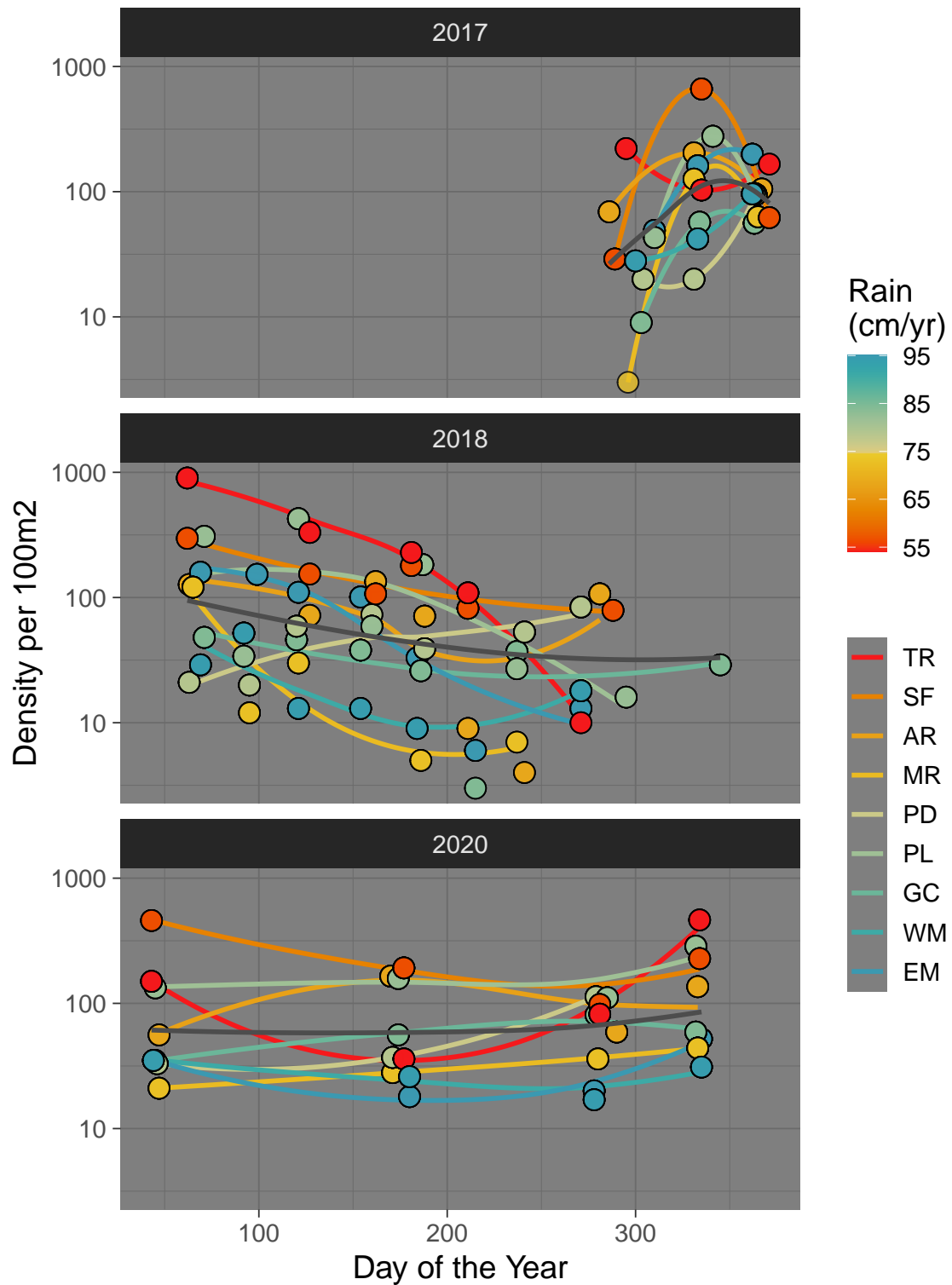


Figure 5. Community density (100m^{-2}) versus day of the year for 2017, 2018, and 2020. Densities and smoothed regression curves are colored by annual rainfall and a region-wide (all sites) smoothed regression is in dark grey.

Figure 6 - Density vs Time: Families

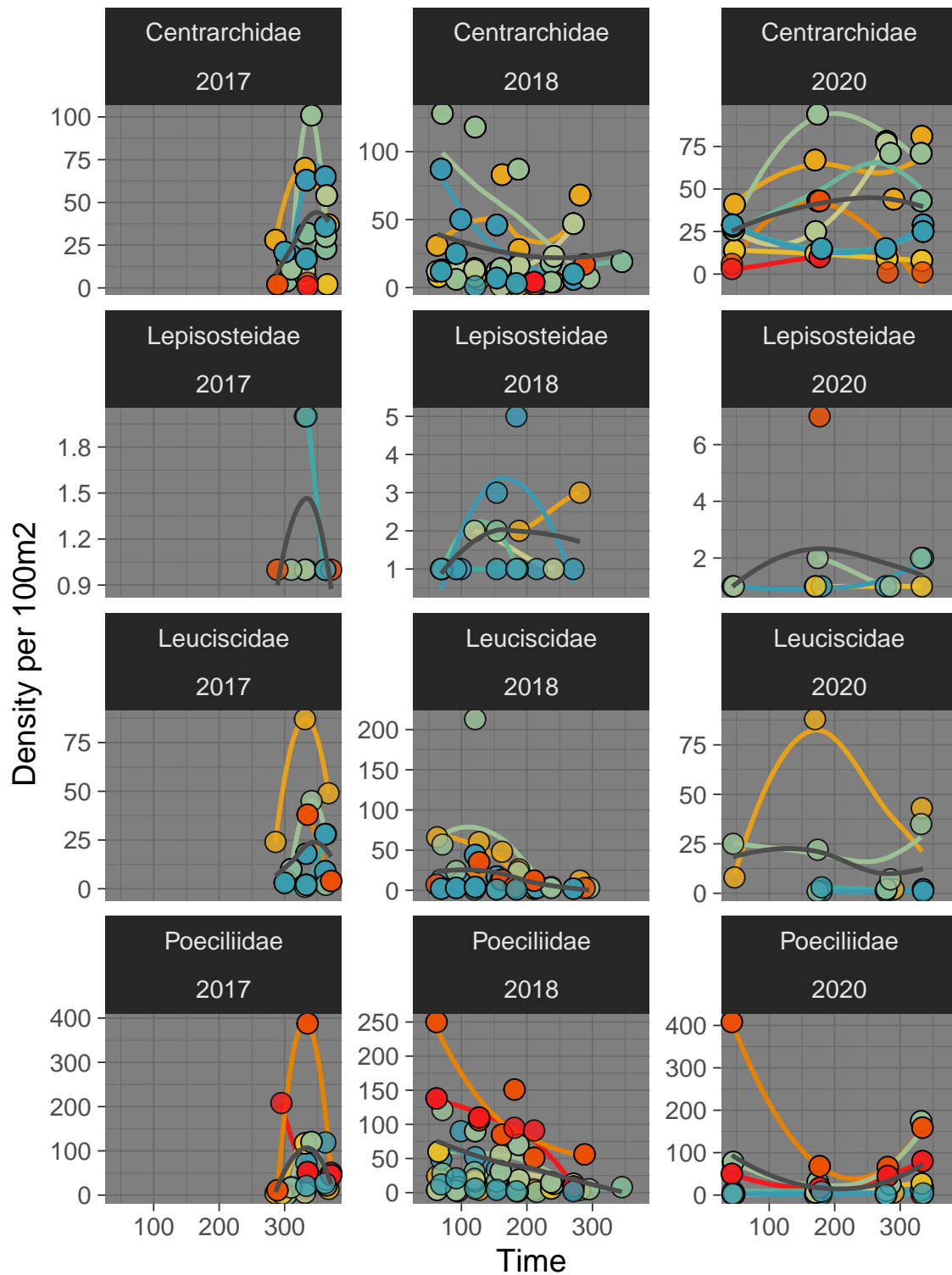


Figure 6. Density of fish (100m⁻²) in prominent taxonomic families plotted against the day of the year in 2017, 2018, and 2020. Vertical axes vary in scale to aid visualization of trends within taxonomic families.

Figure 7 - Density vs Time: Small-Gape, Deep-Bodied Taxa

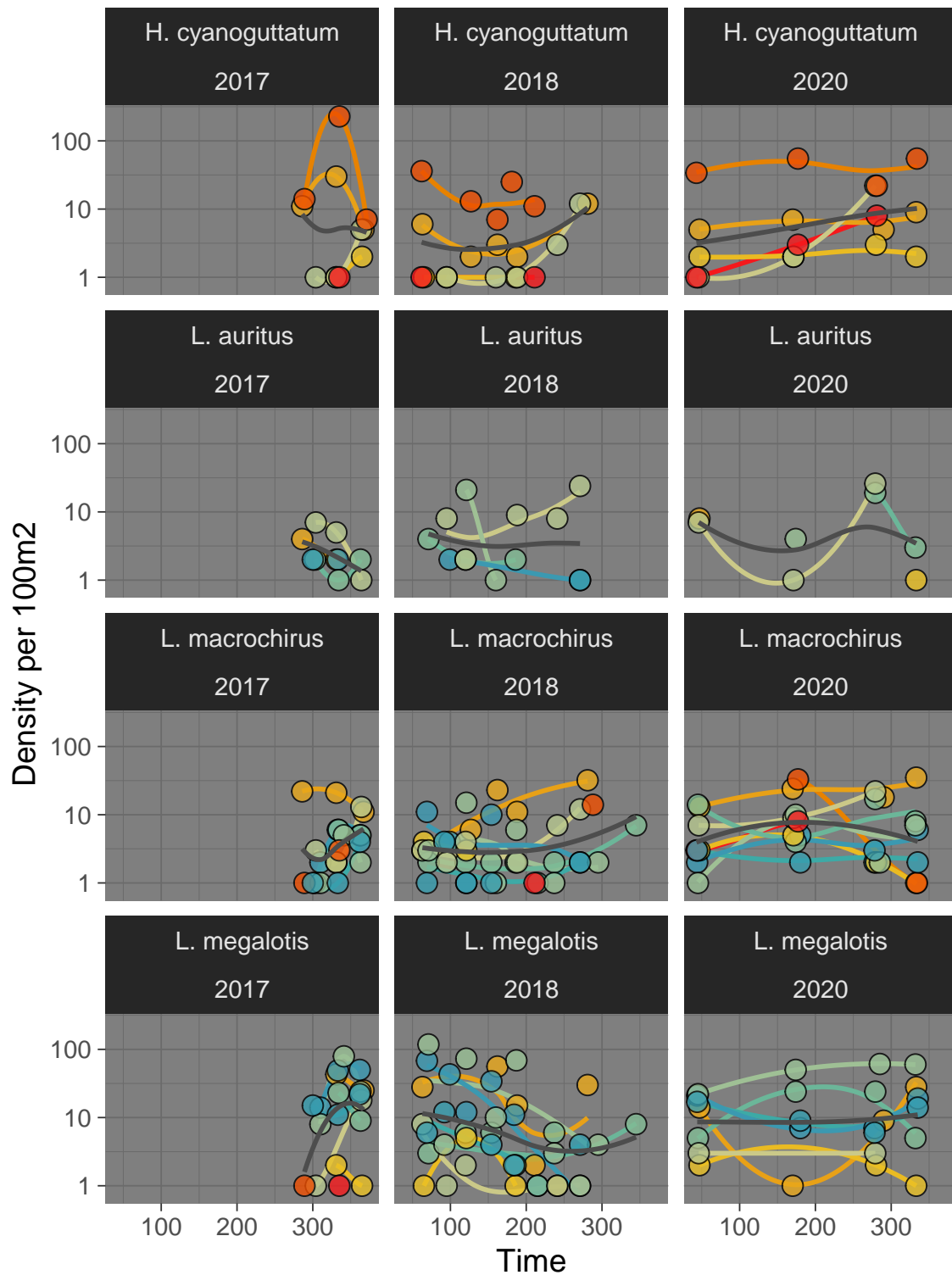


Figure 7. Species-specific densities (100m⁻²) of small-gape, deep-bodied fish plotted against the day of the year in 2017, 2018, and 2020.

Figure 8 - Density vs Time: Large-Gape, Deep-Bodied Pan Fish

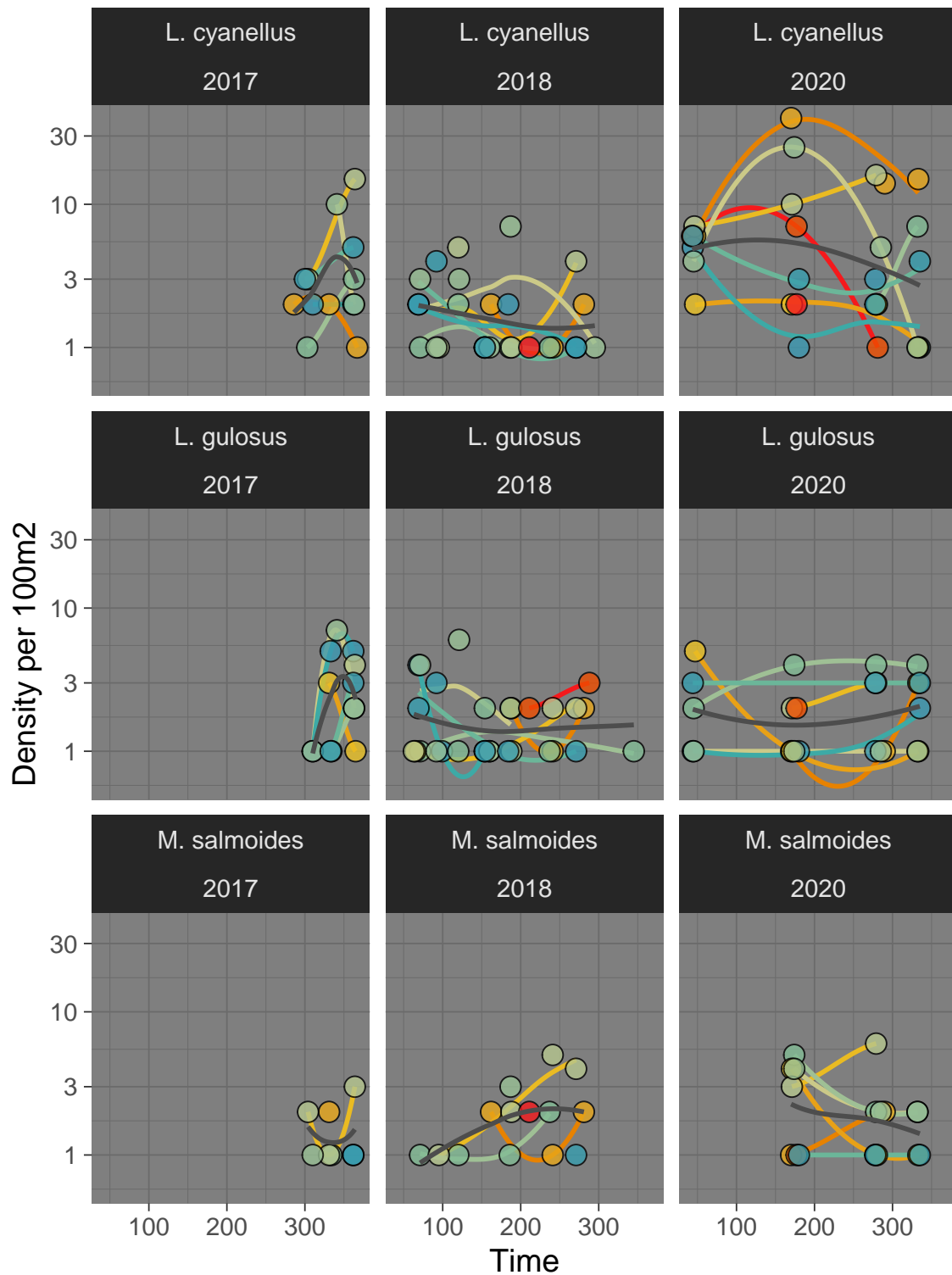


Figure 8. Species-specific densities (100m⁻²) of large-gape, deep-bodied fish plotted against the day of the year in 2017, 2018, and 2020.

Figure 9 - Density vs Time: Poeciliidae

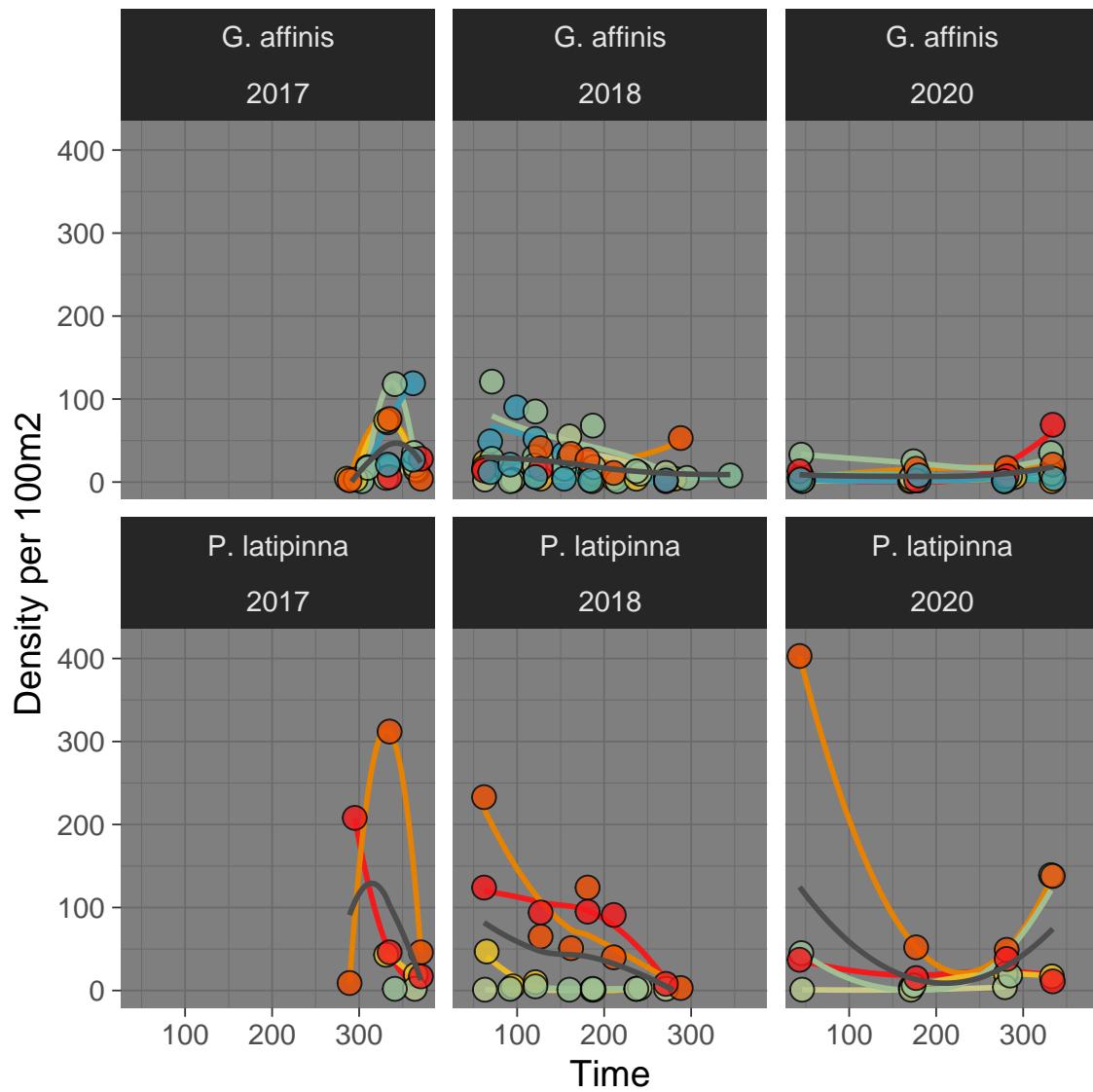


Figure 9. Species-specific densities (100m⁻²) of Poeciliidae plotted against the day of the year in 2017, 2018, and 2020.

Figure 10 - Density vs Rainfall: Regression Community

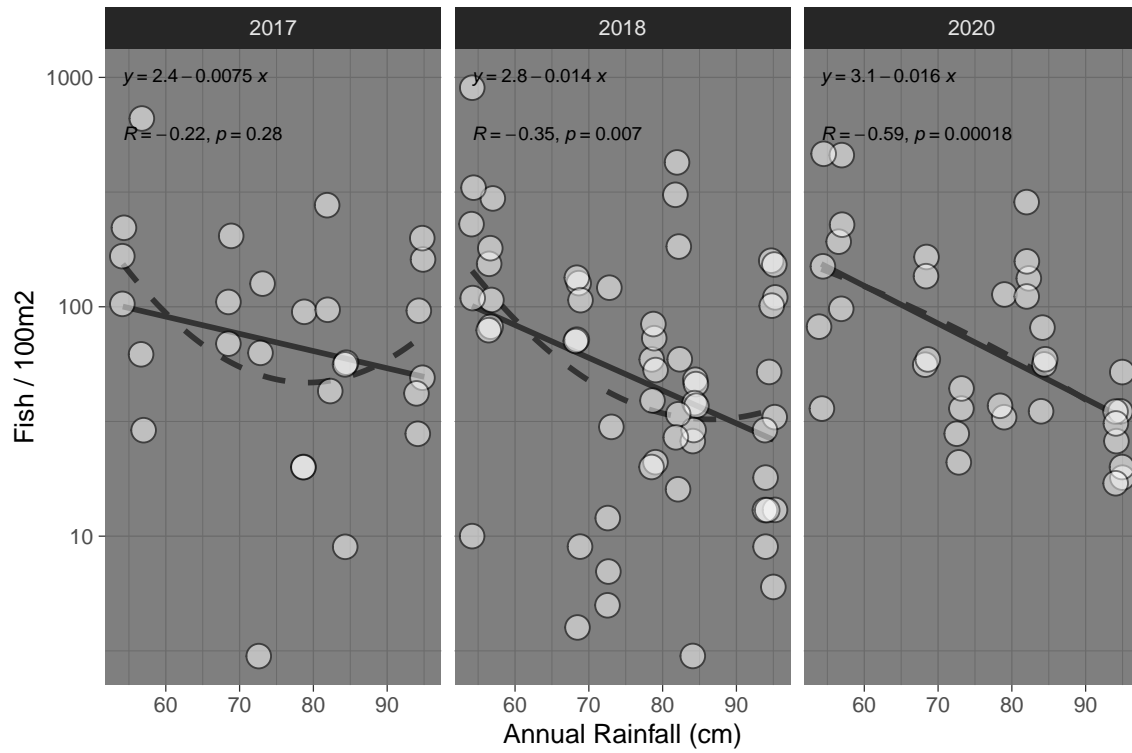


Figure 10. Community density (100m⁻²) versus annual rainfall for 2017, 2018, and 2020.

Figure 11 - Density vs Rainfall: Regression Centrarchid

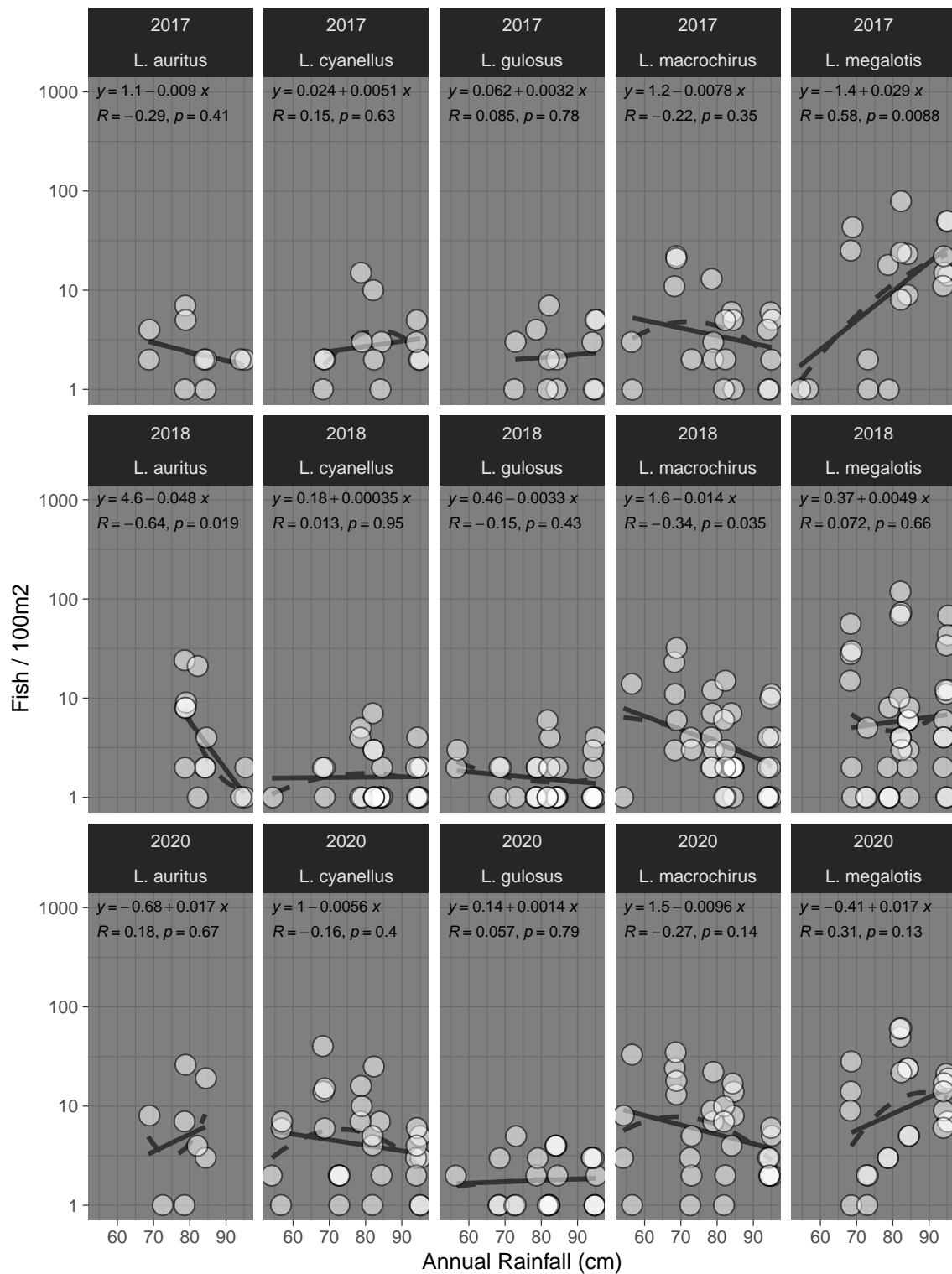


Figure 11. Species-specific densities of Centrarchidae (100m⁻²) versus annual rainfall for 2017, 2018, and 2020.

Figure 12 - Density vs Rainfall: Regression Poeciliid

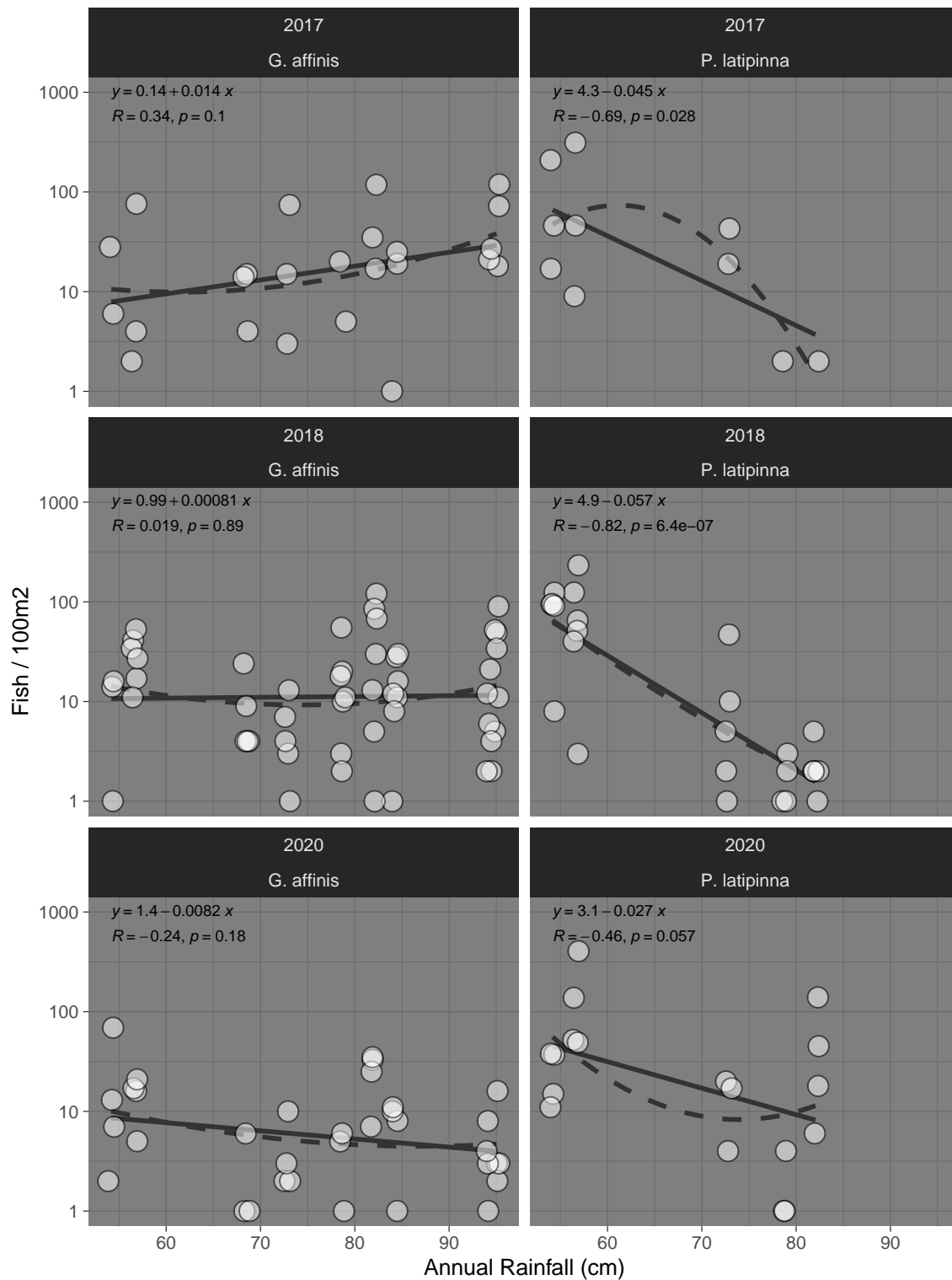


Figure 12. Species-specific densities of Poeciliid (100m⁻²) versus annual rainfall for 2017, 2018, and 2020.