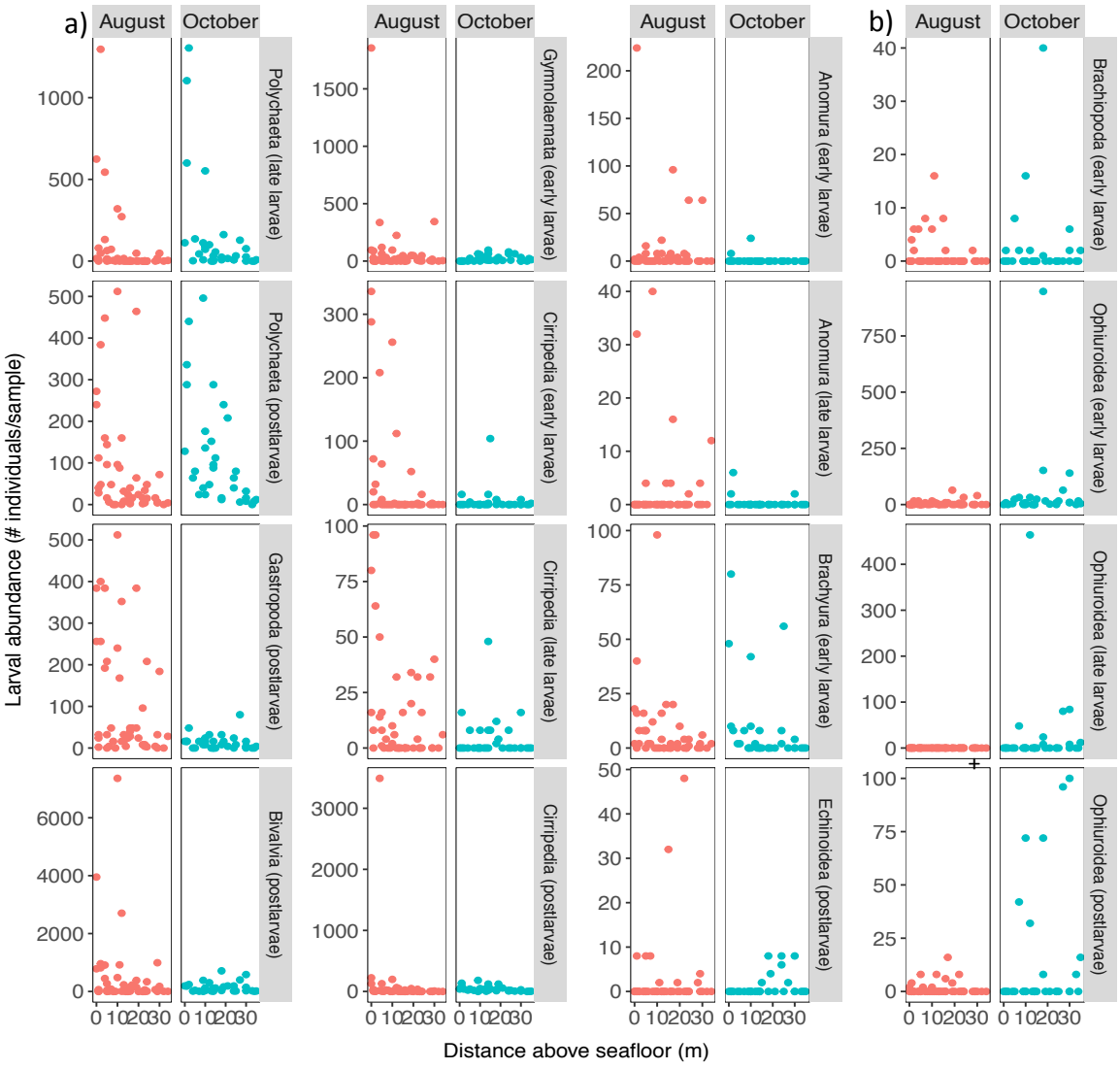

Figure S1. Total abundance of developmental stages for 10 taxa collected from northern Monterey Bay in 2013 by meters above the seafloor in August and October. Plots are grouped by taxa that tended to be more abundant in August and are predominately nearshore taxa (a) and those that tended to be more abundant in October and are predominately offshore taxa (b). Scaling of the y-axis reflects the observed abundances and is unique for each taxon. Taxa that were absent or rare across both sampling periods (three or fewer samples with non-zero abundances within a sampling period) were not displayed. Refer to Table 2 for significance values and for absent and rare taxa.

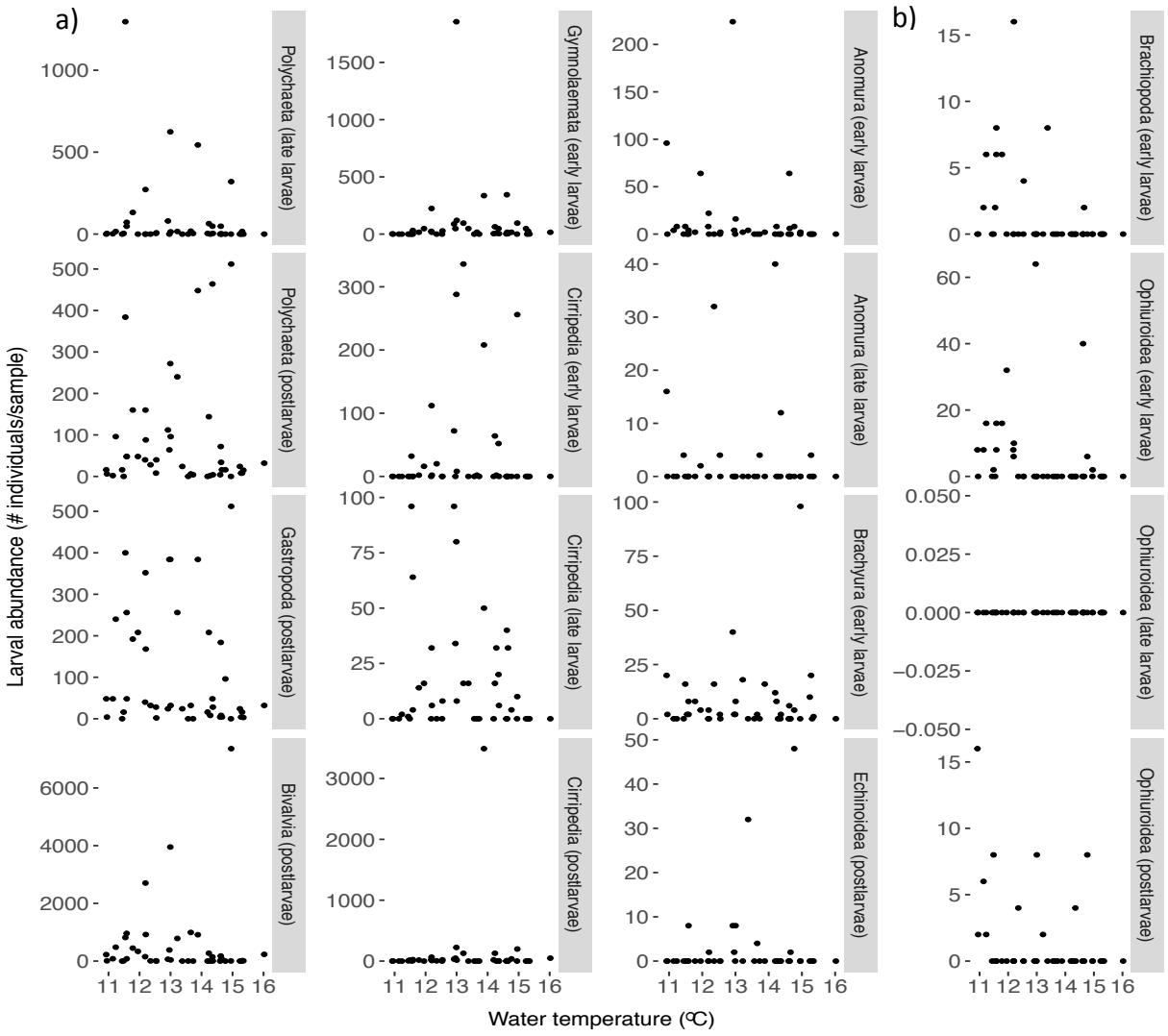

Figure S2. Total abundance of developmental stages for 10 taxa collected from northern Monterey Bay in August 2013 relative to water temperature (°C). Plots are grouped by taxa that tended to be more abundant in August and are predominately nearshore taxa (a) and those that tended to be more abundant in October and are predominately offshore taxa (b). Scaling of the y-axis reflects the observed abundances and is unique for each taxon. Taxa that were absent or rare across both sampling periods (three or fewer samples with non-zero abundances within a sampling period) were not displayed. Refer to Table 2 for significance values and for absent and rare taxa.

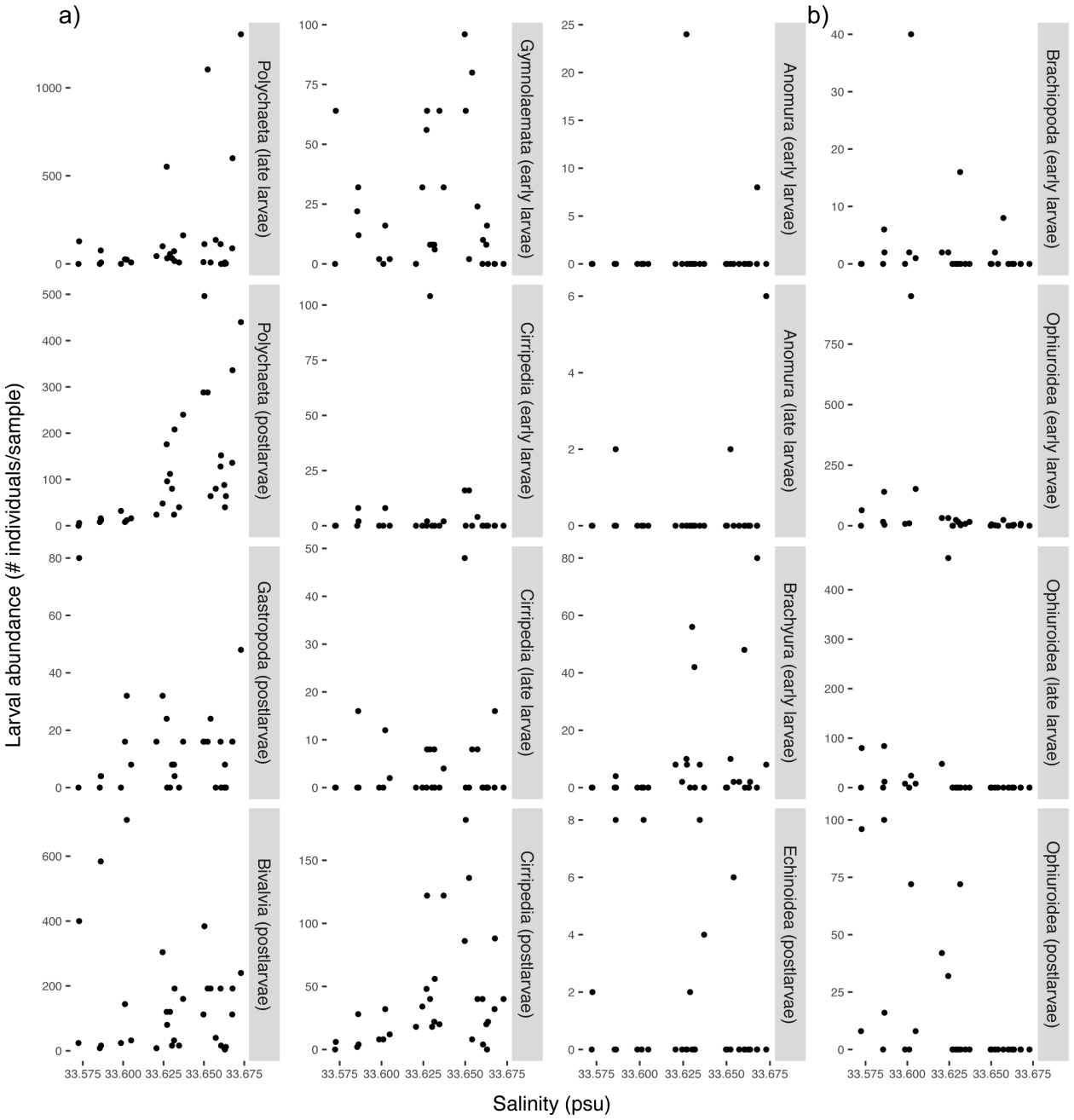

Figure S3. Total abundance of developmental stages for 10 common taxa collected from northern Monterey Bay in October 2013 relative to salinity (psu). Plots are grouped by taxa that tended to be more abundant in August and are predominately nearshore taxa (a) and those that tended to be more abundant in October and are predominately offshore taxa (b). Scaling of the y-axis reflects the observed abundances and is unique for each taxon. Taxa that were absent or rare across both sampling periods (three or fewer samples with non-zero abundances within a sampling period) were not displayed. Refer to Table 2 for significance values and for absent and rare taxa.

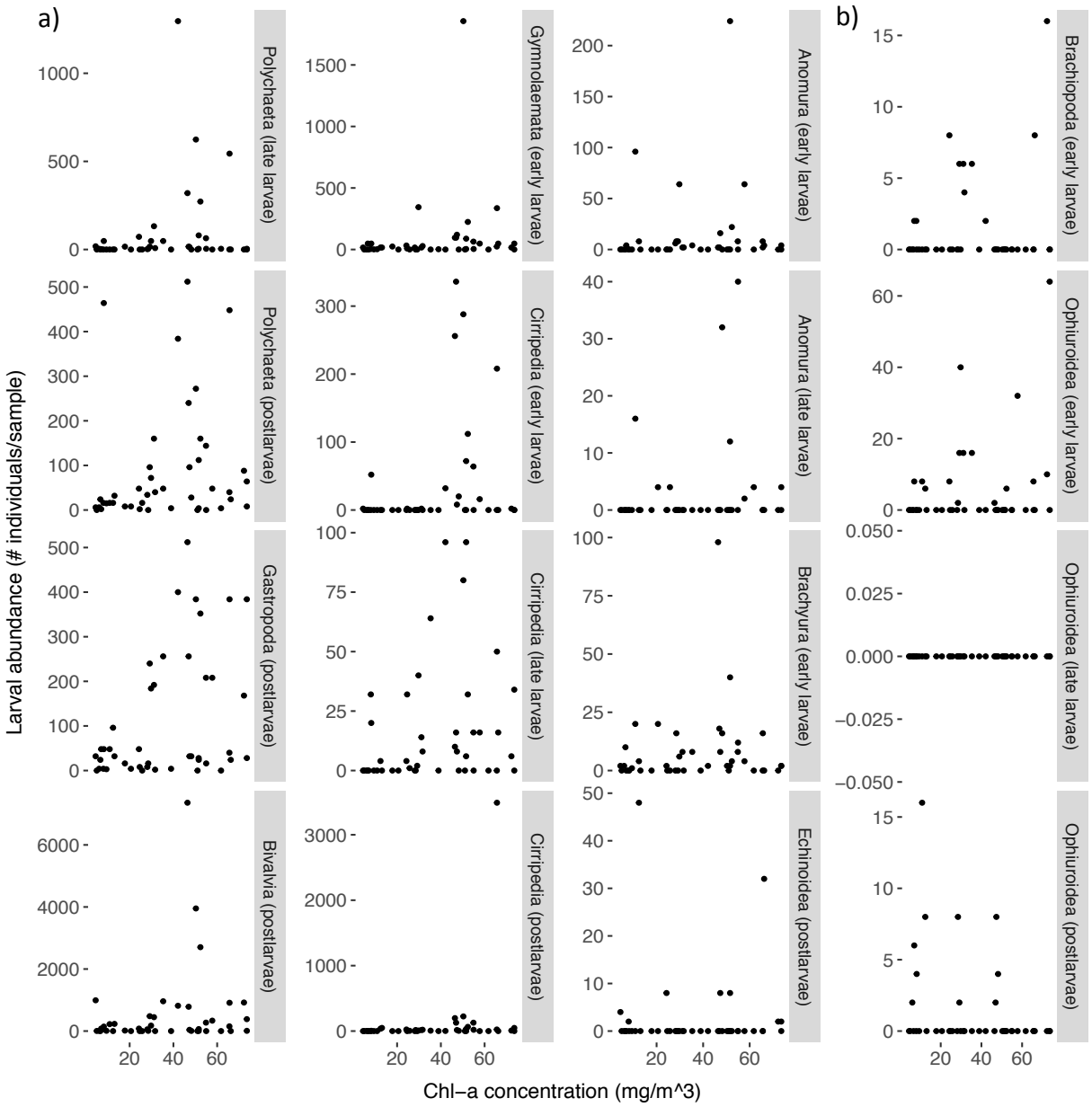

Figure S4. Total abundance of developmental stages for 10 taxa collected from northern Monterey Bay in August 2013 relative to chlorophyll-*a* concentration. Plots are grouped by taxa that tended to be more abundant in August and are predominately nearshore taxa (a) and those that tended to be more abundant in October and are predominately offshore taxa (b). Scaling of the y-axis reflects the observed abundances and is unique for each taxon. Taxa that were absent or rare across both sampling periods (three or fewer samples with non-zero abundances within a sampling period) were not displayed. Refer to Table 2 for significance values and for absent and rare taxa.