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## Tables for manuscript

**Tab 1** Summary of biological and experimental paramaters for individual eels

| ID | Length (cm) | Silvering Index\* | Biomass at start (g) | Biomass at end (g) | Fat at start (% WM) | Fat at end (% WM) | Swim time (d) | Swimming distance (km) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | 78 | 4 | 935 | 866 | 17.20 | 18.50 | 44.1 | 1727 |
| B | 74 | 5 | 732 | 701 | 20.85 | 21.65 | 44.1 | 1837 |
| C | 77 | 5 | 908 | 864 | 22.55 | 24.50 | 44.1 | 1814 |
| D | 78 | 5 | 973 | 928 | 19.25 | 17.65 | 32.6 | 1481 |
| E | 83 | 4 | 1045 | 1000 | 18.45 | 20.05 | 32.6 | 1573 |
| F | 90 | 4 | 1142 | 1079 | 21.55 | 20.75 | 32.2 | 1464 |
| G | 87 | 5 | 1345 | 1070 | 17.05 | 20.90 | 43.4 | 1935 |
| H | 81 | 4 | 987 | 947 | 19.15 | 19.15 | 45.8 | 2195 |
| I | 86 | 4 | 1345 | 1247 | 18.35 | 18.50 | 47.0 | 2169 |

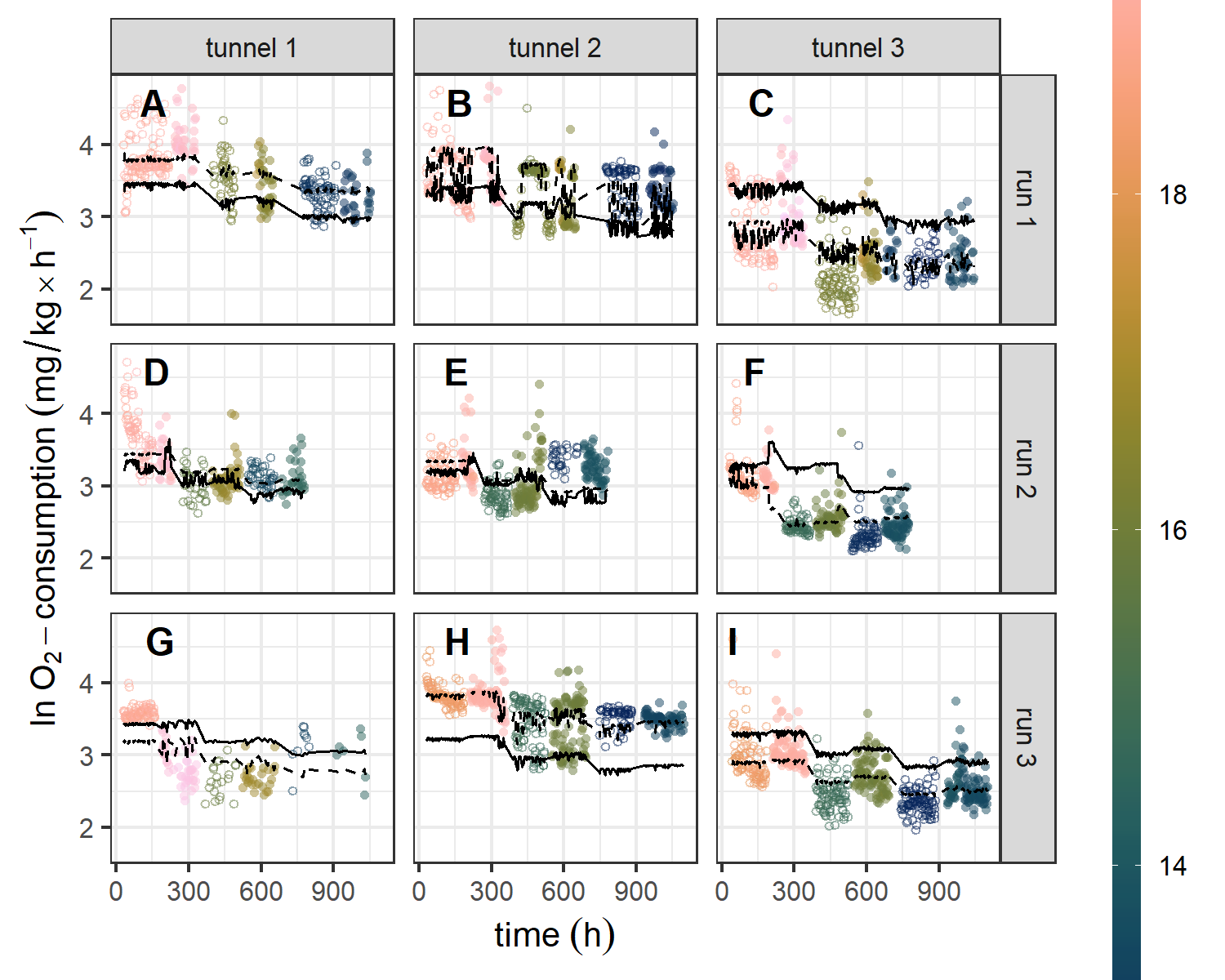
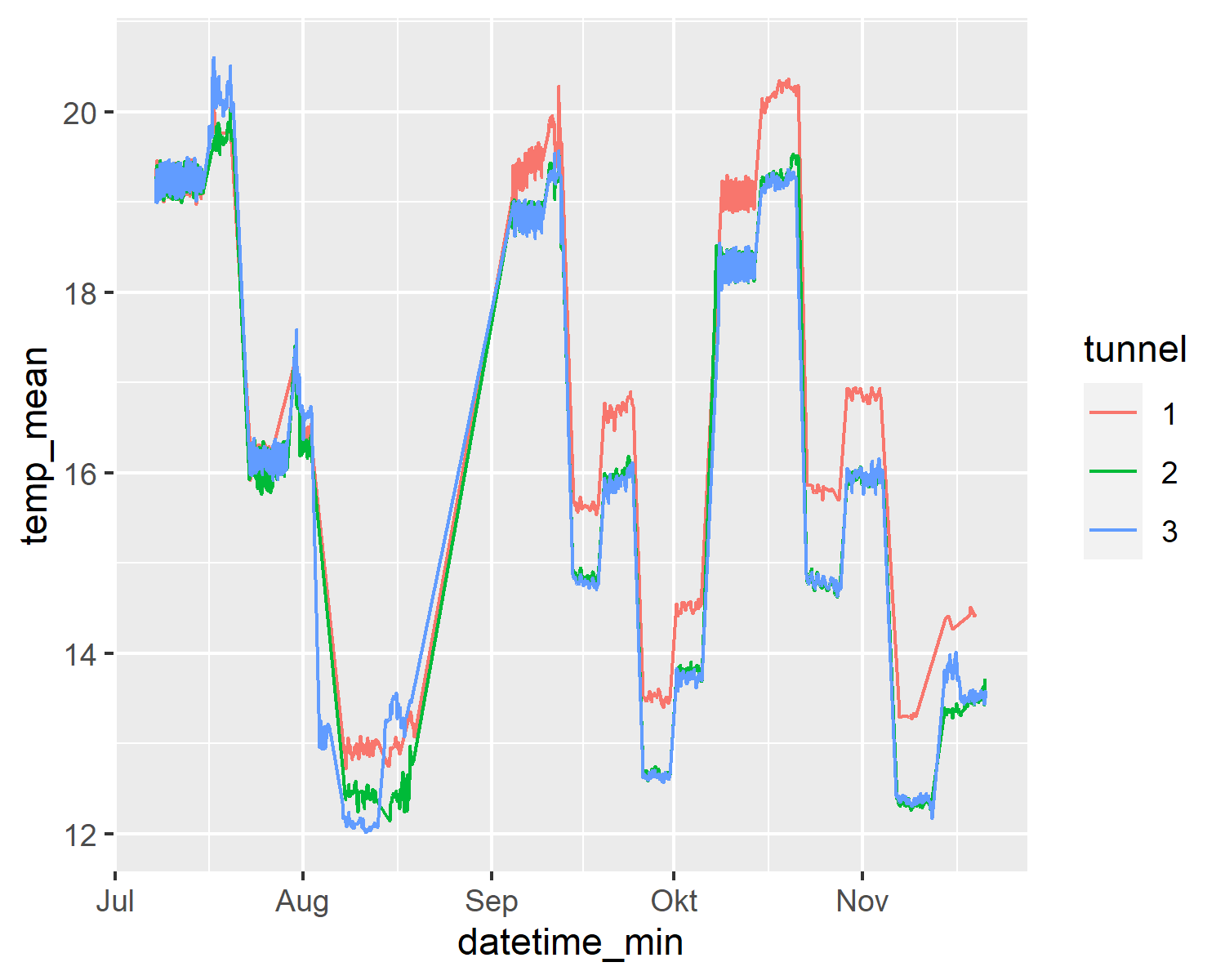
\*according to Durif et al. (2005)  
  
  
  
**Tab 2** Short summary of the model statistics for main effects. Note, that value gives the change in the log of O2-consuption rate per change in one unit of the predictor.

| Parameter | Value | Lower conf. limit | Upper conf. limit | p |
| --- | --- | --- | --- | --- |
| Intercept | 3.082 | 1.942 | 4.221 | <0.001 |
| Temperature (°C) | 0.069 | 0.062 | 0.076 | <0.001 |
| Pressure (bar) | -0.004 | -0.009 | 0.002 | 0.195 |
| Velocity (BL/s) | -1.680 | -3.389 | 0.029 | 0.054 |

## Graphs for the manuscript

## Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.  
## i Please use `linewidth` instead.

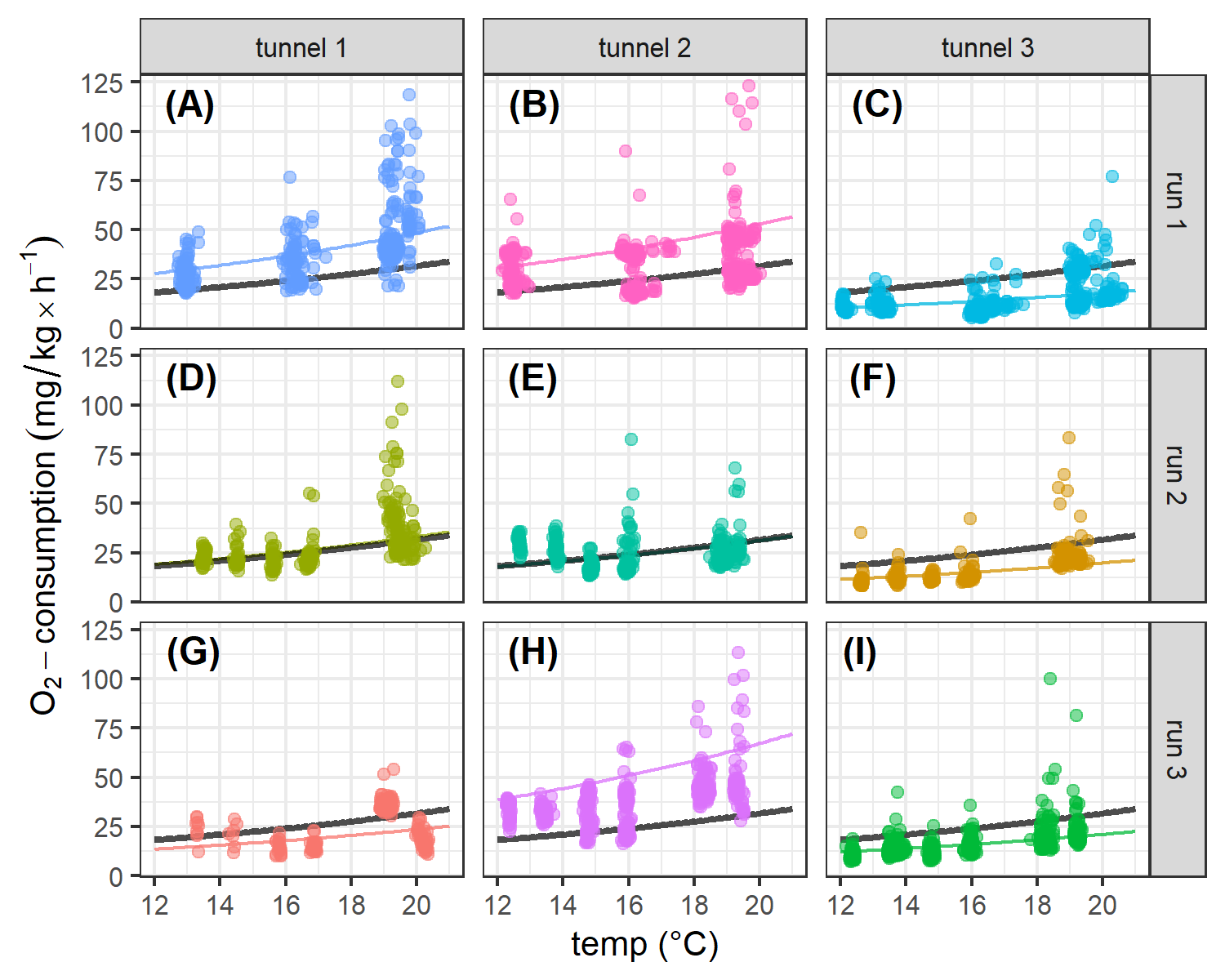
## Warning: `aes\_string()` was deprecated in ggplot2 3.0.0.  
## i Please use tidy evaluation ideoms with `aes()`



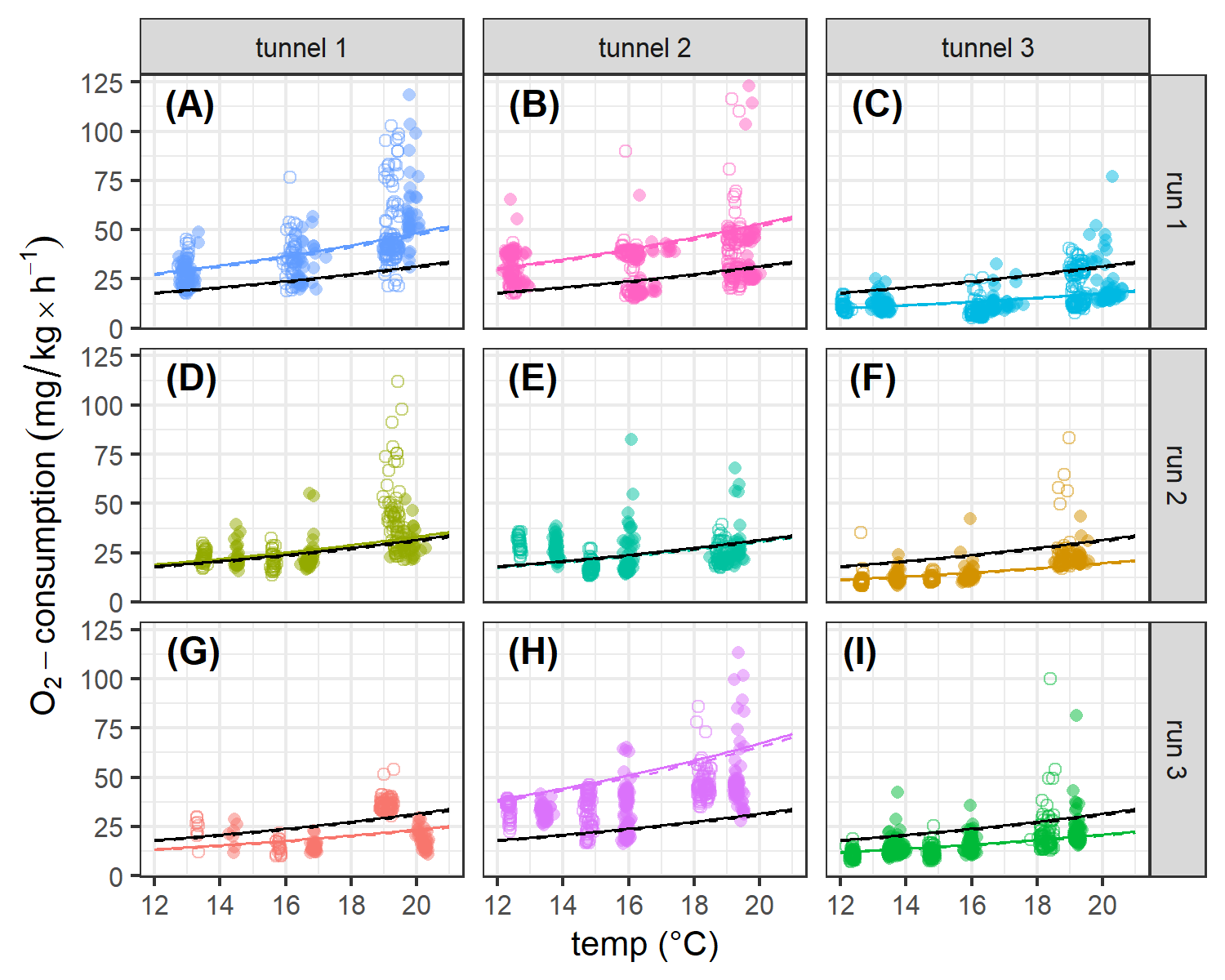
**Fig 1** Oxygen consumption rate per individual (a-i) over time different at temperatures (color scale) at 1 bar (open circles) and 8 bar (closed circles). Modeled predictions are displayed on the population level (solid line) and for the individual (dashed line). Colour indicates temp in °C

## Warning: The `size` argument of `element\_rect()` is deprecated as of ggplot2 3.4.0.  
## i Please use the `linewidth` argument instead.

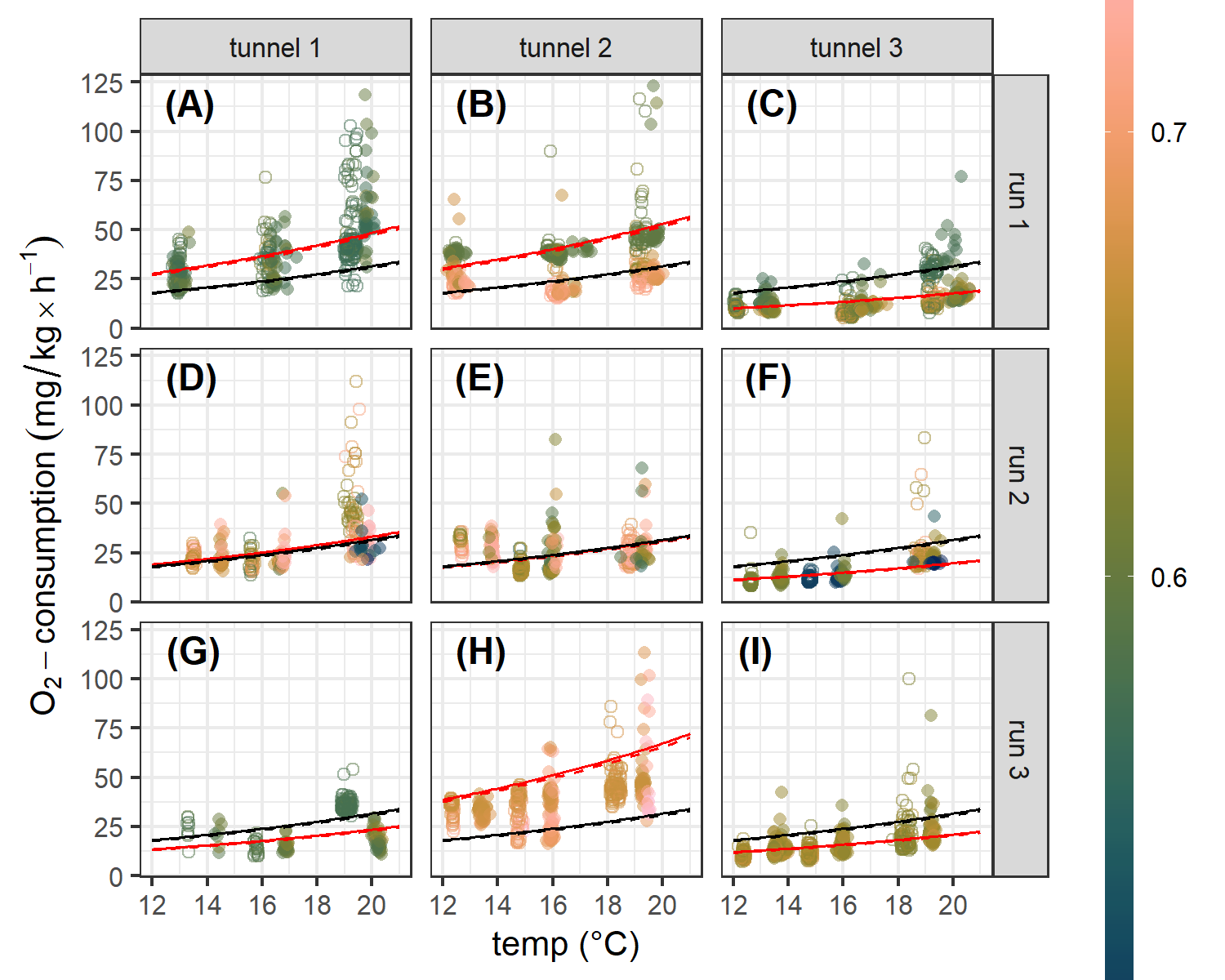
## `geom\_smooth()` using method = 'loess' and formula = 'y ~ x'  
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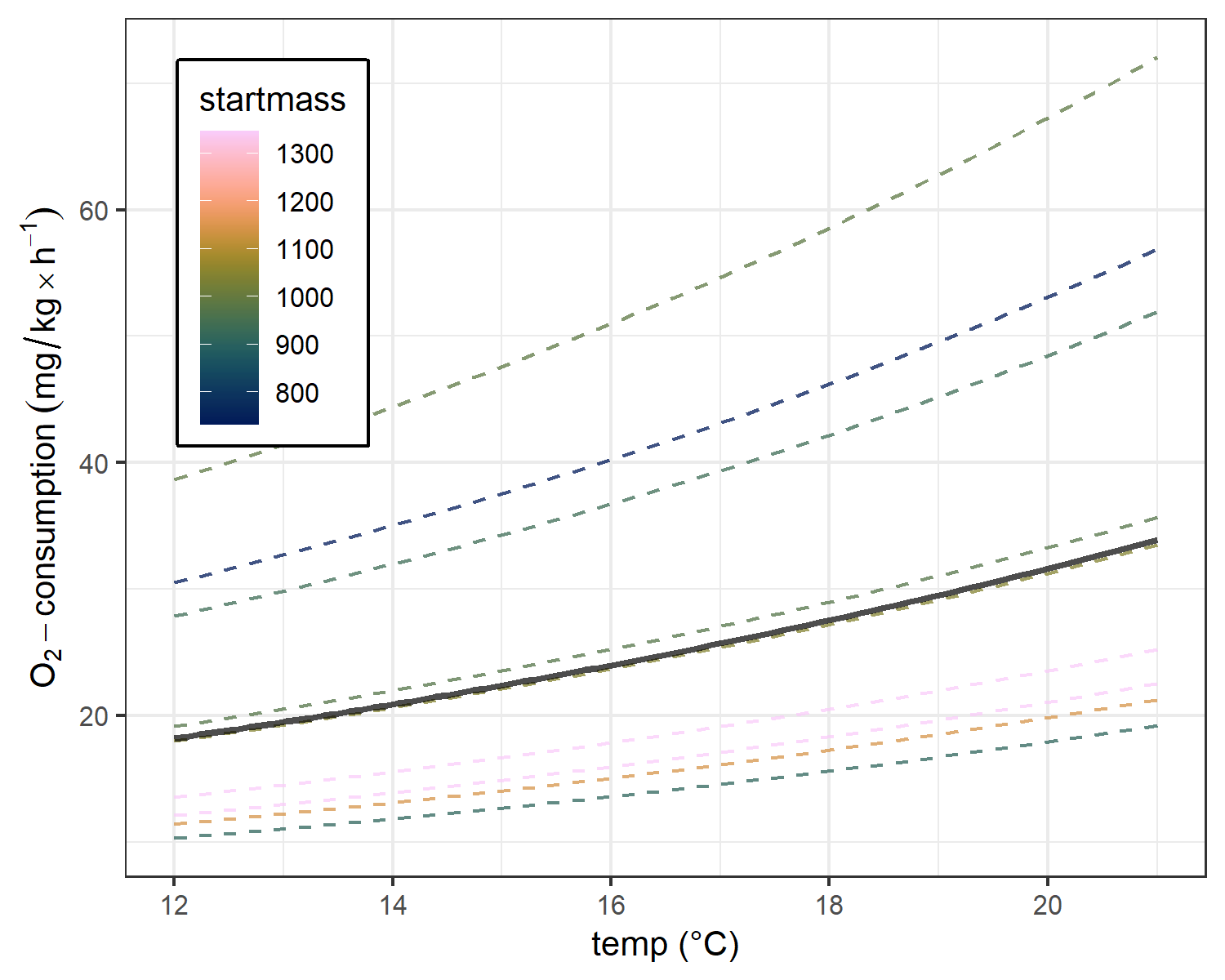
## `geom\_smooth()` using method = 'loess' and formula = 'y ~ x'  
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## `geom\_smooth()` using method = 'loess' and formula = 'y ~ x'  
## `geom\_smooth()` using method = 'loess' and formula = 'y ~ x'



**Fig 2** Predicted oxygen consumption rate at different temperatures and pressures at a swimming speed of 0.6 BL/s.  Difference between 1 and 8 bar is not significant.

## Graphs/tabs for supplementary

**Tab S1** Summary of

| ID | nominal temperature (°C) | nominal pressure (bar) | swim time (d) | n |
| --- | --- | --- | --- | --- |
| A | 12.0 | 1 | 7.0 | 68 |
| A | 12.0 | 8 | 6.1 | 29 |
| A | 15.5 | 1 | 7.5 | 44 |
| A | 15.5 | 8 | 4.0 | 41 |
| A | 19.0 | 1 | 9.0 | 125 |
| A | 19.0 | 8 | 4.6 | 37 |
| B | 12.0 | 1 | 7.0 | 66 |
| B | 12.0 | 8 | 5.5 | 43 |
| B | 15.5 | 1 | 7.5 | 101 |
| B | 15.5 | 8 | 4.0 | 49 |
| B | 19.0 | 1 | 9.1 | 125 |
| B | 19.0 | 8 | 4.0 | 47 |
| C | 12.0 | 1 | 7.0 | 44 |
| C | 12.0 | 8 | 6.1 | 59 |
| C | 15.5 | 1 | 7.6 | 100 |
| C | 15.5 | 8 | 4.5 | 47 |
| C | 19.0 | 1 | 9.0 | 125 |
| C | 19.0 | 8 | 5.0 | 64 |
| D | 12.0 | 1 | 5.8 | 41 |
| D | 12.0 | 8 | 5.2 | 31 |
| D | 15.5 | 1 | 5.1 | 31 |
| D | 15.5 | 8 | 5.8 | 53 |
| D | 19.0 | 1 | 6.4 | 77 |
| D | 19.0 | 8 | 3.9 | 29 |
| E | 12.0 | 1 | 5.8 | 30 |
| E | 12.0 | 8 | 5.2 | 55 |
| E | 15.5 | 1 | 5.1 | 67 |
| E | 15.5 | 8 | 5.8 | 77 |
| E | 19.0 | 1 | 6.4 | 82 |
| E | 19.0 | 8 | 3.9 | 33 |
| F | 12.0 | 1 | 5.8 | 72 |
| F | 12.0 | 8 | 5.2 | 68 |
| F | 15.5 | 1 | 5.1 | 67 |
| F | 15.5 | 8 | 5.8 | 77 |
| F | 19.0 | 1 | 6.0 | 76 |
| F | 19.0 | 8 | 3.9 | 34 |
| G | 12.0 | 1 | 7.0 | 9 |
| G | 12.0 | 8 | 6.6 | 7 |
| G | 15.5 | 1 | 6.9 | 20 |
| G | 15.5 | 8 | 7.9 | 28 |
| G | 19.0 | 1 | 6.8 | 87 |
| G | 19.0 | 8 | 7.0 | 47 |
| H | 12.0 | 1 | 7.0 | 58 |
| H | 12.0 | 8 | 8.0 | 69 |
| H | 15.5 | 1 | 6.9 | 87 |
| H | 15.5 | 8 | 7.9 | 94 |
| H | 19.0 | 1 | 7.8 | 105 |
| H | 19.0 | 8 | 7.0 | 97 |
| I | 12.0 | 1 | 7.0 | 96 |
| I | 12.0 | 8 | 8.0 | 110 |
| I | 15.5 | 1 | 6.9 | 89 |
| I | 15.5 | 8 | 7.5 | 94 |
| I | 19.0 | 1 | 7.8 | 97 |
| I | 19.0 | 8 | 6.6 | 90 |

**Tab S2** Summary of model AICs

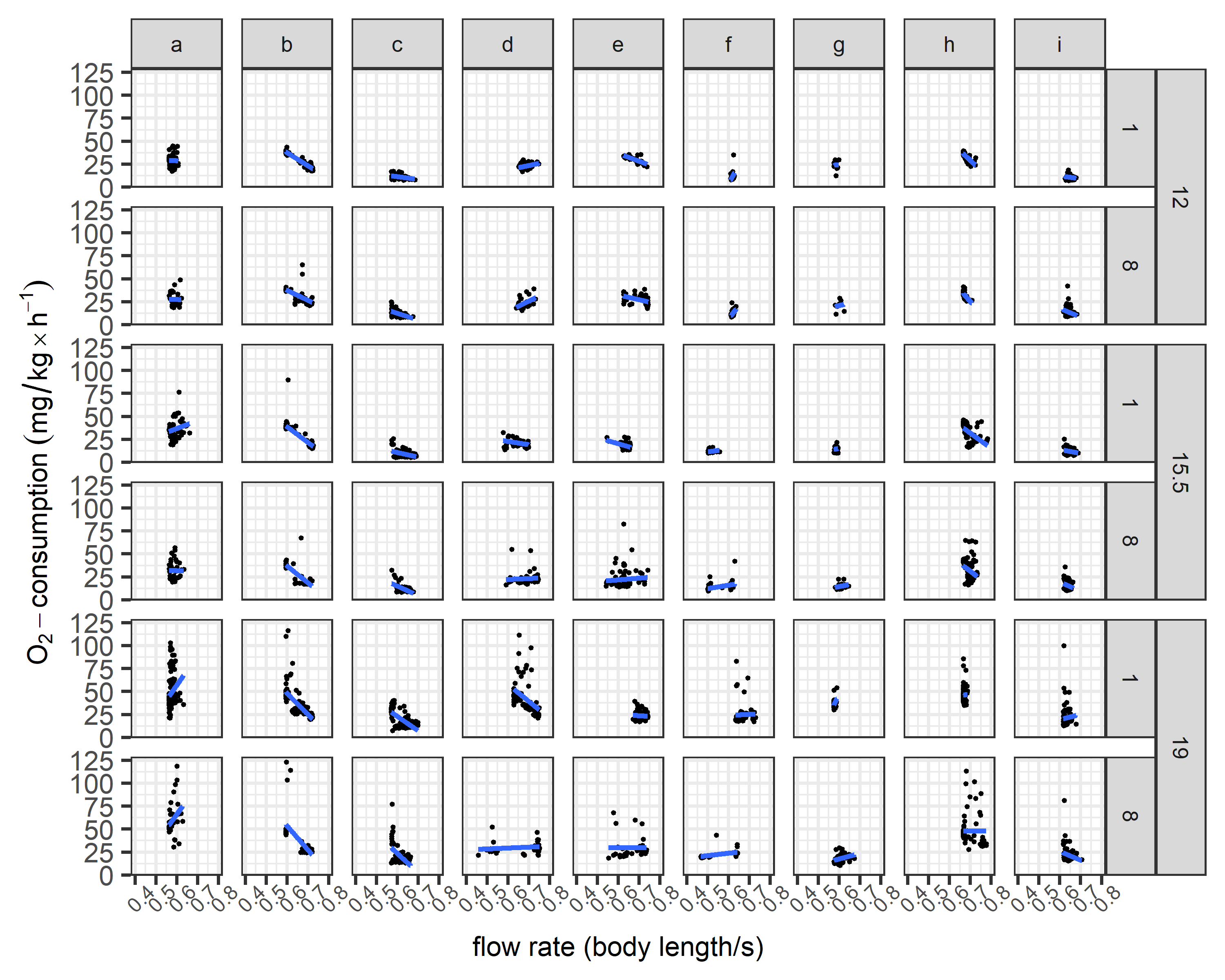
## Downloading GitHub repo davidgohel/flextable@HEAD

##   
## -- R CMD build -----------------------------------------------------------------  
## \* checking for file 'C:\Users\pohlmann\AppData\Local\Temp\RtmpoB5y2x\remotes2dbc216a5fb8\davidgohel-flextable-e364012/DESCRIPTION' ... OK  
## \* preparing 'flextable':  
## \* checking DESCRIPTION meta-information ... OK  
## \* checking for LF line-endings in source and make files and shell scripts  
## \* checking for empty or unneeded directories  
## \* building 'flextable\_0.8.4.003.tar.gz'  
##

## Warning: Paket 'flextable' wird gerade benutzt und deshab nicht installiert

## Warning in `[<-.factor`(`\*tmp\*`, thisvar, value = ""): ungültiges Faktorniveau,  
## NA erzeugt

| (Intercept) | press\_mean | run | speedBL | temp\_mean | df | logLik | AIC | delta | weight |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | -0.01 |  | -1.72 | 0.08 | 9 | -11.8 | 41.6 | 0 |  |
| 2.95 | -0.01 | + | -1.72 | 0.08 | 11 | -11.4 | 44.8 | 3.2 |  |
| 1.93 | -0.01 | + |  | 0.08 | 10 | -13 | 46.01 | 4.41 |  |
| 2.96 |  | + | -1.76 | 0.08 | 10 | -13.53 | 47.06 | 5.46 |  |
| 3.94 | 0 | + | -1.37 |  | 10 | -146.91 | 313.81 | 272.21 |  |



**Fig S1** Effect of swimming speed on Oxygen consumption rate per Temperature and pressure for each individual