

# seawater\_chem

Samuel Gurr

11/29/2021

## ALL CHEMISTRY DATA

Figure (mean SE)

```
## Warning in qt(conf.interval/2 + 0.5, datac$N - 1): NaNs produced
## Warning in qt(conf.interval/2 + 0.5, datac$N - 1): NaNs produced
## Warning in qt(conf.interval/2 + 0.5, datac$N - 1): NaNs produced
## Warning in qt(conf.interval/2 + 0.5, datac$N - 1): NaNs produced
## Warning in qt(conf.interval/2 + 0.5, datac$N - 1): NaNs produced
## Warning in qt(conf.interval/2 + 0.5, datac$N - 1): NaNs produced
```

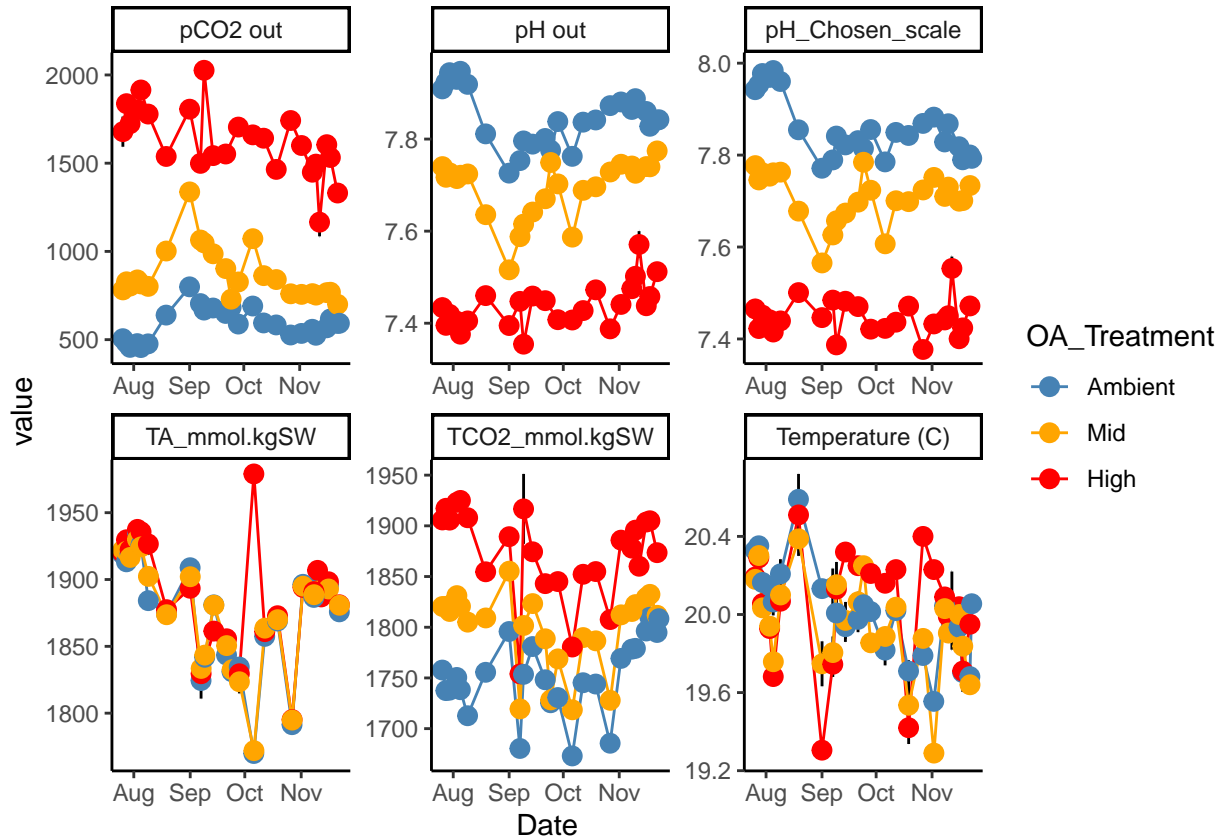


Table (mean SE)

```
## [1] "Date" "Type_exp"
## [3] "X" "Chamber_bucket"
## [5] "pH" "OA_Treatment"
## [7] "Salinity" "t.oC._spec"
## [9] "P_.dbars." "Total_P_.mmol.kgSW."
## [11] "Total_Si_.mmol.kgSW." "t.oC._of.bucket"
## [13] "P_.dbars." "TA_.mmol.kgSW."
## [15] "TCO2_.mmol.kgSW." "pH_Chosen_scale_.4_decimals."
## [17] "pH_out_MeasTemp" "pCO2_out_.matm._MeasTemp"
## [19] "Wca_out_MeasTemp" "War_out_MeasTemp"
## [21] "pH_out" "pCO2_out_.matm."
## [23] "Wca_out" "War_out"
```

## Warning: 'summarise\_each()' was deprecated in dplyr 0.7.0.  
 ## Please use 'across()' instead.  
 ## This warning is displayed once every 8 hours.  
 ## Call 'lifecycle::last\_lifecycle\_warnings()' to see where this warning was generated.

## Warning: 'funs()' was deprecated in dplyr 0.8.0.  
 ## Please use a list of either functions or lambdas:  
 ##  
 ## # Simple named list:  
 ## list(mean = mean, median = median)

Table 1: Seawater chemistry July 26, 2021 - Nov 23, 2021

pCO2_level	N	Salinity	Temperature	pH	pCO2	TA	TCO2	Aragonite.
Ambient	22	26.5± 0.132	20 ± 0.048	7.85 ± 0.0134	584 ± 19.3	1870 ± 8.99	1750 ± 7.28	1.47 ± 0.0
High	12	26.5± 0.117	20.1 ± 0.0604	7.44 ± 0.0102	1630 ± 40.2	1870 ± 23.6	1870 ± 9.36	0.607 ± 0.0
Mid	22	26.5± 0.132	19.9 ± 0.0523	7.69 ± 0.0135	871 ± 31.3	1870 ± 8.81	1800 ± 8.03	1.06 ± 0.0

Table 2: Seawater chemistry Food x OA Challenge (only)

pCO2_level	Food_supply	pHXfood	N	Salinity	Temperature	DO	pH	pCO2
High	High	7.5*High	21	25.9± 0.174	21.1 ± 0.195	9.38 ± 0.0308	7.68 ± 0.0111	878 ± 24.
High	Low	7.5*Low	16	25.7± 0.182	20.8 ± 0.318	9.06 ± 0.0697	7.74 ± 0.0135	749 ± 24.
Low	High	8*High	21	25.9± 0.173	21.1 ± 0.198	9.41 ± 0.0285	7.82 ± 0.00863	613 ± 13.
Low	Low	8*Low	16	25.7± 0.2	20.7 ± 0.323	9.11 ± 0.058	7.86 ± 0.00856	552 ± 10.

```
##
##   # Auto named with 'tibble::lst()':
##   tibble::lst(mean, median)
##
##   # Using lambdas
##   list(~ mean(., trim = .2), ~ median(., na.rm = TRUE))
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was generated.
```

## Food x OA Challenge (only!)

Table (mean SE)

```
## 'summarise()' has grouped output by 'pH'. You can override using the '.groups' argument.
```