“raw valvometric data” is a large CSV with over 2.9 million rows used to inform all following analyses in the study. It includes the following data at 5-second resolution:

* datetime
* Sensor1 through Sensor3: raw mV values measured from each sensor by the Arduino
* zscore1 through zscore3: daily z-scores for sensor 1 through 3

“daily data merged” includes daily-scale data used to conduct GAM analyses. The CSV file includes the following averaged at daily resolution:

* date
* count: number of times per day clam 3 closed its shell
* chlor: daily average chlorophyll-a RFU
* bga: daily average phycoerythrin RFU
* pH
* DO: daily average dissolved oxygen (mg/L)
* light: daily average PAR in levels in μmol electrons/m2s

“minute scale valvometry” is a CSV with minute-scale data used to run wavelet analysis (both raw and day-detrended versions included in Figure 7.

* date
* sensor3: valvometric z-scores for clam sensor 3

“Combined 15 minute data” is data used to run wavelet coherence analyses. The data takes the form of a CSV incorporating the following data at 15-minute resolution:

* sensor3: valvometric z-scores for clam sensor 3
* DO: dissolved oxygen (mg/L)
* pH
* chla: chlorophyll-a (Relative Fluorescence Units)
* PE: phycoerythrin (Relative Fluorescence Units)
* light: PAR levels in μmol electrons/m2s