

Rapid thermal adaptation in a marine diatom reveals constraints and trade-offs
D. R. O'Donnell et al. 2018

Description of data files

ODonnell_etal_2018_temp_gr.rate_data_T.pseudonana_0318.csv Temperature-dependent growth rate data for thermal reaction norms of 16°C- and 31°C-selected replicate populations.

ODonnell_etal_2018_Monod_gr.rates_T.pseudonana_0318.csv Nitrate-dependent growth rate data for Monod curves of 16°C- and 31°C-selected replicate populations, assayed in a reciprocal transplant scenario.

DubEx_coefs_ALT.PARAM_0318.csv Coefficients from maximum likelihood fits of the double-exponential model (alternative parameterization; see Appendix A).

DubEx_resid.boots_ALT.PARAM_0318.csv Residual bootstrap double-exponential curves (n = 1000). Derivative traits are also included in this file.

Monod_coefs_0318.csv Coefficients from weighted, nonlinear least squares regression fits of the Monod equation to nitrate-dependent growth rates.

Monod_resid.boots_0318.csv Residual bootstrap Monod curves (n = 1000).

Monod_residboot_bands_0318.csv 95% confidence bands for each Monod curve, extracted from bootstrap data.