

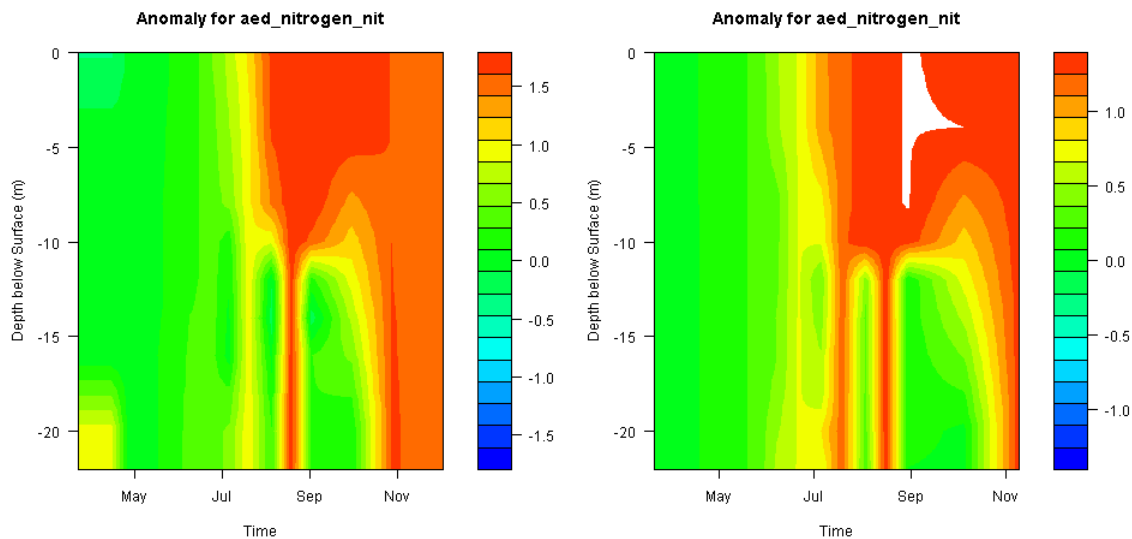
Results of Normalized Mean Absolute Error calculations to compare simulated to field data for years 2009-2010. Values are for 2009, with 2010 results in parentheses.

State Variable	Literature Epilimnion NMAE*	Literature Hypolimnion NMAE*	Literature Overall NMAE **	Model Epilimnion NMAE***	Model Hypolimnion NMAE***	Model Overall NMAE
Temp	0.04	0.08	NA	0.068 (0.068)	0.038 (0.065)	0.058 (0.067)
DO	0.10	0.29	0.08	0.262 (0.313)	0.124 (0.105)	0.197 (0.221)
NO3	0.42	0.64	0.38	0.901 (2.23)	0.357 (1.12)	0.699 (1.82)
NH4	0.65	0.99	0.67	0.355 (0.196)	0.674 (0.641)	0.474 (0.362)
PO4	0.97	0.74	0.81	0.659 (0.757)	0.519 (1.32)	0.607 (0.967)
<i>Microcystis</i>	1.24	NA	NA	0.651 (0.597)	NA	0.651 (0.597)
Nanoplankton	0.50	NA	0.46	NA	NA	NA

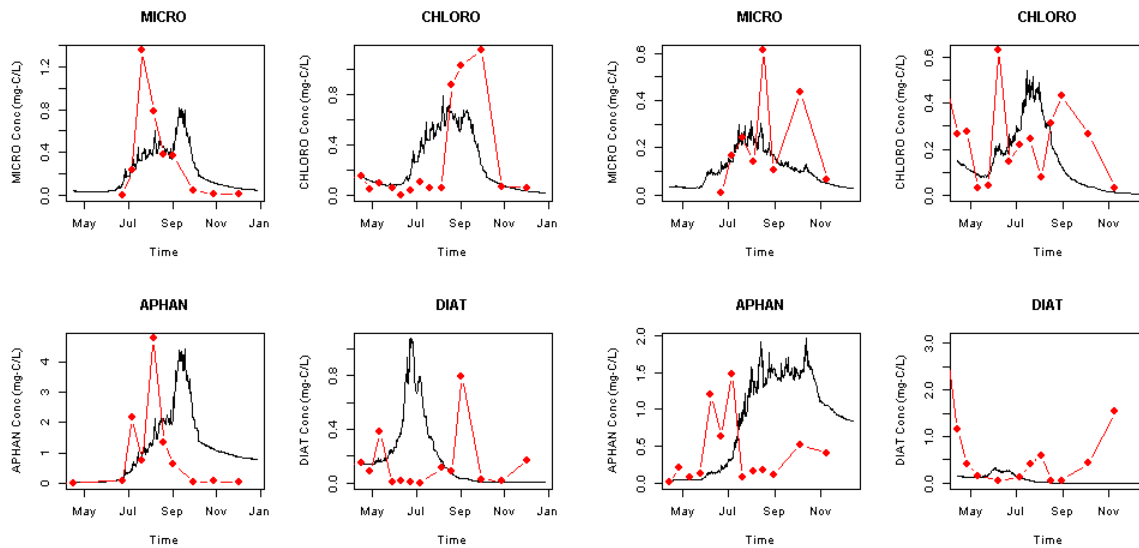
*Values are from Table 3 of (Gal et al., 2009); here, epilimnion is the top 10-meters of the water column, and hypolimnion is the bottom 10-m of the water column

**Values from Table 3 of (Bruce et al., 2006).

***Epilimnion is 0-12 depth from surface, and hypolimnion is 12 m depth to lake bottom.

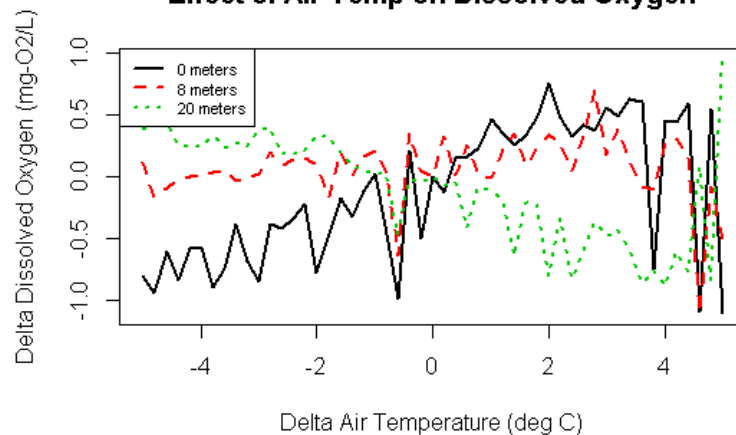


Anomalies for nitrate concentration for years 2009 (left panel) and 2010 (right panel) [mg-N/L].



Time series of phytoplankton concentrations (mean of 0-8m depth) for each of the four phytoplankton functional groups for years 2009 (left) and 2010 (right). Black line represents model, red line represents observations [mg-C/L].

Effect of Air Temp on Dissolved Oxygen



Effect of Wind Speed Dissolved Oxygen

