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### Out of balance: implications of climate change for the ecological stoichiometry of harmful cyanobacteria

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# Curriculum vitae

Dedmer B. van de Waal was born on the 8<sup>th</sup> of January 1982 in Wijnjewoude, the Netherlands. After following secondary school at the CSG Liudger in Drachten he studied Environmental Sciences at the Van Hall Institute in Leeuwarden, where he obtained his Bachelor Hons degree in 2003. Thereafter, he continued with an MSc program in Hydrology and Water Quality Management at Wageningen University, where he graduated in 2005. During his education he performed research projects at the University of Udine (Italy), the Royal Netherlands Institute for Sea Research, Wageningen University, the Netherlands Institute of Ecology, and the University of Amsterdam. In these projects he got acquainted with various aspects of phytoplankton ecology. This included colony formation of marine haptophytes, competition between green algae and cyanobacteria, cyanobacterial mortality by cyanophages, and nitrogen fixation in marine cyanobacteria.

Upon graduation, Dedmer started the PhD research described in this thesis. The work was conducted at the Laboratory of Aquatic Microbiology of the University of Amsterdam, in collaboration with the Department of Aquatic Ecology of the Netherlands Institute of Ecology, under supervision of Prof. dr. Jef Huisman (UvA) and Prof. dr. Ellen van Donk (NIOO). The research resulted in several publications and this thesis.

As of December 2009, Dedmer is a Postdoctoral Research Associate at the Alfred Wegener Institute for Polar and Marine Research in Bremerhaven, Germany, in the ERC Research Group of Dr. Björn Rost.

## Publications

- Van de Waal DB, Ferreruela G, Tonk L, Van Donk E, Huisman J, Visser PM, and Matthijs HCP. Nitrogen pulse induces dynamic changes in amino acid composition and microcystin production of the harmful cyanobacterium *Planktothrix agardhii*. *Submitted*.
- Van de Waal DB, Verschoor AM, Verspagen JMH, Van Donk E, and Huisman J. 2010. Climate-driven changes in the ecological stoichiometry of aquatic ecosystems. *Frontiers in Ecology and the Environment* 8: 145-152.
- Van de Waal DB, Verspagen JMH, Lüring M, Van Donk E, Visser PM, and Huisman J. 2009. The ecological stoichiometry of toxins produced by harmful cyanobacteria: an experimental test of the carbon-nutrient balance hypothesis. *Ecology Letters* 12: 1326-1335.
- Tonk L, Van de Waal DB, Slot P, Huisman J, Matthijs HCP, and Visser P. 2008. Amino acid availability determines the ratio of microcystin variants in the cyanobacterium *Planktothrix agardhii*. *FEMS Microbiology Ecology* 65: 383-390.
- Tijdens M, Van de Waal DB, Slovackova H, Hoogveld HL, and Gons HJ. 2008. Estimates of bacterial and phytoplankton mortality caused by viral lysis and microzooplankton grazing in a shallow eutrophic lake. *Freshwater Biology* 53: 1126-1141.