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## **Phylogenetic, taxonomic and biogeographical studies in the Pithophoraceae (Cladophorales, Chlorophyta)**

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### **Citation**

Boedeker, C. (2010, December 21). *Phylogenetic, taxonomic and biogeographical studies in the Pithophoraceae (Cladophorales, Chlorophyta)*. Retrieved from <https://hdl.handle.net/1887/16263>

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## STELLINGEN

behorende bij het proefschrift

‘Phylogenetic, taxonomic and biogeographical studies in the Pithophoraceae  
(Cladophorales, Chlorophyta)’

van Christian Bödeker

1. The niches of the members of the Pithophoraceae are shaped by competitive exclusion rather than ecological or physiological requirements (this thesis).
2. Several taxa of the Pithophoraceae are promising candidates to test the concept of steno-evolution, which had been proposed for several bryophytes (Frey *et al.* 1999), since they have low dispersal capacities and are presumably clonal species with resulting indefinite generation times (this thesis).
3. Marine-freshwater transitions within a group of organisms are interesting from both an ecological and evolutionary point of view (this thesis, Mann 1996).
4. One problem with determining whether a species is declining is the quantity, quality and accessibility of historical data, which are required as a reference. The majority of available herbarium collections is rather old and does not allow the assessment of current distribution ranges, therefore continuing collecting efforts are generally important (this thesis, Brodie *et al.* 2008).
5. Scientists should not confuse the criteria for detecting species with the theoretical understanding of the way species exist (de Queiroz 1998, Hey 2006).
6. The Ulvophyceae including the orders Cladophorales, Bryopsidales, Dasycladales, Ulvales and Trentepohliales is a monophyletic group (Cocquyt *et al.* 2010).
7. Chloroplast markers are unfortunately missing from all phylogenetic reconstructions of the Cladophorales.
8. It is difficult to reconcile taxonomic inflation originating from phenotypic plasticity and the simultaneous discovery of cryptic species with the type method.
9. Our ballooning population, our greed, our pollution, and our destruction of habitats will never allow the perpetuation of the myth of ‘sustainable harvest’ (Paul Watson, ‘Seal Wars’).
10. Theory, my friend, is grey, but green is the eternal tree of life. (Lenin, ‘Letters on tactics’, quoting Goethe’s Faust).