

## Acknowledgements

This is it man! It's game over man! I'm not going back in there man! These people survived science for over twenty years; so why don't you put them in charge man! But I have to admit, science is better than aliens.

The chapters of this thesis and the manuscripts not incorporated herein (see cv on page 226) result from an unbelievable series of opportunities that various friends and colleagues have offered me. The beginning step was my first visit to the office of Henk Brinkhuis in the summer of 2000. After following several of his classes (and of other people from our group) during my undergraduate, I decided to do my masters with him which started in the spring of 2001. Fortunately, he had just been on Ocean Drilling Program Leg 189 in the Southern Ocean, and he had me work on dinocysts from the vital Eocene-Oligocene transitions recovered during that leg. From the start, it was clear that the dinocyst data should be combined with some carbonate geochemistry, which was planned to be done by shipboard party member Stephen Schellenberg. Stephen, at that time, was a Post-doc with Jim Zachos in at the University of California at Santa Cruz. When the dinocyst work was done, Henk, Stephen and Jim arranged for me to go to Santa Cruz in 2002 and do these analyses myself. While in Santa Cruz, Jim suggested me to apply for the undergraduate student trainee position on ODP Leg 208 on the Walvis Ridge, which I immediately did.

In the mean while, Henk had tried several times to receive funding from the Netherlands organisation for scientific research for a PhD student to focus on the PETM, but these proposals were hardly taken seriously. Later that year, it was indeed decided that I could sail on ODP Leg 208 during March to May 2003, and we recovered fantastic cores through the PETM and discovered the *Elmo* horizon. Again, in the mean while, Henk and also Andy Lotter were gathering money for a PhD student from various sources: the Laboratory of Palaeobotany and Palynology Foundation, the TNO-Utrecht University Biogeology Center and the (then still) Faculty of Biology, literally squeezing out all dollars and cents. Finally, they managed, and offered this position to me. They even allowed me to work on the palynomorph-barren sections from the Walvis Ridge. In addition, Henk got to sail on the Arctic Coring Expedition (Integrated ODP Expedition 302) in the summer of 2004, and they had the sheer luck to recover a PETM section from there too, which was ideally suited for organic proxy-work, including dinocysts. Henk invited me to do the palynological analyses on the PETM. Altogether, a series of cases where I was at the right time in the right place enabled me to work on both deep marine subtropical carbonates from the

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Walvis Ridge, as well as organic-rich siliciclastics from the North Pole. It can be worse...

The man who was the initiation to this and has remained a continuous driving force (not only behind the scenes) is Henk Brinkhuis. So thank you Henk for all the grappa-hangovers and for being such a close friend despite the fact that I picked some forams for a thesis with you as a co-promotor. My promotor, Andy Lotter, who has made the unimaginable transition from a Holocene Swis..err., Central European Lake-guy to almost a true early Paleogene marine geologist, thank you for all the help and support. I would also like to thank Jim Zachos for having me in Santa Cruz during my masters and inviting me to sail on ODP Leg 208. Thanks Jim, thanks a lot! During Leg 208 I got to know Lucas Lourens and I really appreciate the way we are cooperating and constantly discussing results: thanks! Also many thanks to Dick Kroon for having me in his lab for running the 1263 PETM bulk isotope records and dissolving some *Elmo* forams. Thanks also to all the people in Dick's department that helped me running these samples. It has been a pleasure to get into some hardcore organic geochemistry together with Stefan Schouten, Jaap Sinninghe Damsté, Gert-Jan Reichart and Mark Pagani. I enjoyed discussions on the data from this thesis with Jerry Dickens and he was a great help in improving the quality of several of the manuscripts. Many thanks to all of you!

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