



UvA-DARE (Digital Academic Repository)

Populations crossing habitat boundaries in the face of environmental change

Chaparro Pedraza, P.C.

[Link to publication](#)

License
Other

Citation for published version (APA):
Chaparro Pedraza, P. C. (2019). *Populations crossing habitat boundaries in the face of environmental change*.

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Acknowledgments

You are reading this thesis today because many contributed in different ways to its realisation. In fact, as an individual, a scientist is also subjected to the influences of its environment. The company, support and influence of multiple people is directly or indirectly reflected in the words of this thesis. Through these four years, many people contributed to make my days warmer despite the distance to my hometown and the horrible (ok, just bad) dutch weather (I will always complain about it).

André, it has been an honor for me to be mentored by you. Thanks for caring about the well-being of your group members, specially thanks for understanding that leaving behind a life is not easy, and asking about my well-being in the first months of my PhD. Thanks for your support when things were not going smoothly in Vienna or when I learnt that I had to present few hours before the actual presentation in Riga. Thanks for encouraging improvement by recognising hard work and quality. Thanks for the multiple lessons I received from you. One of the most important lessons is that as a mentor and scientist the most important is to be human. Thanks, thanks, thanks. Thanks to Hal for very inspiring discussions, comments and insights that undoubtedly had a significant impact on this thesis. Yael, thanks for scientific and non-scientific discussions including trip advices, it was always very pleasant to talk to you. Thanks to Judy and Willem for their kind help when I had questions.

When leaving family, friends and mountains behind, old TE members were essential to make me feel welcome in this new low land. I'll start by the first chocolate office. Nora, thanks for being my desk mate for few months and your advices for the carnival of Cologne. Nienke, thanks for the discussions about dutch culture, it was always very pleasant to learn from you about this new culture for me. If the academic parents exist, academic siblings should too. Perhaps because we were born in the academic life practically at the same time, went through the PhD together and now graduate again together, Lotte, you feel like a twin academic sister (although from different academic father). Lotte, I have so many things to thank you... but to not

make this long, thanks for your enormous generosity. May we travel together one day without losing anything.

Now it's the turn of the second chocolate office. Floor, thanks for first introduction to command line and for the first kitchen tools I had. Louise, thanks for evenings of table games, movies and delicious food at your place. Hanna, thanks for solving all kind of practical and numerical matters, including taking care of our health and driving us for lunch always by the stairs. Thanks for founding the cake club, despite Vincent refuse to recognise it. Vincent, thanks for your services as a translator and as a iceskating teacher. Tom and Kat, your lunch contributions will be always memorable for their scientific insight. Thanks to Silke, Maria, Jacques, Romain, Renske, Chris, Morgan, Espelth, Stacy, Maja, Liesbeth, Jasper, Sofia, Sietze, Jun and all TCE members for Fridays of laughter and beers.

Thanks to Francine, Jillian, Esperanza, Sarah, Pablo, Claudia, Leila and other 43 Vienna Würstels for the unforgettable summer. Meeting these amazing people working to solve all kind of world problems is one of the most inspiring experiences of my life.

Karen, durante estos años siempre fuiste un apoyo enorme, nunca olvidaré que tú me recibiste en IBED casi que recién bajada del avión. Marian, cafés o almuerzos y nuestras discusiones sobre ciencia, sobre Colombia, sobre nosotras fueron siempre oportunos, siempre guardaré recuerdos de nuestras aventuras en Israel. A todos los colombianitos en SP Laura, Macla, Catalina, Julián, Muriel, Patricia gracias por la compañía en las buenas rumbas. Rachid, thanks for planning and organising great events, I will always appreciate very much your support for the Colombian football team. Thanks to Saioa, Nina, Alex, Rocío and other IBED mates for the good atmosphere at macumba and other parties. Thanks to the secretaries and the IBED management team for their support, especialmente a Maria y Mary por sus atenciones y amabilidad.

El apoyo a la distancia y la disponibilidad incondicional de mis amigas de toda la vida Ana, Lau, Moni, Pili, Any también fueron fundamentales durante este proceso. Las visitas de Carito, Pili, Ana, Susi, Dianis y Marce me recargaron de energía y me trajeron siempre un poquito del calor de hogar a mi casa en Amsterdam. Gracias a todas por ser tan buenas amigas.

Papitos: esto también es de ustedes. Ustedes lograron esto conmigo. Mis hermanas y yo somos lo que somos hoy por su esfuerzo, su sacrificio y su amor. Esto no sería posible sin que tú, mami, te levantes todos los días a las 5 am a prepararnos el chocolate antes de ir al colegio. No sería posible sin que mi papá hubiera pasado algunas noches ayudándome a resolver las tareas. Gracias por enseñarme que no hay límites para soñar, imaginar y cuestionar. Hermanitas: gracias por su amor, su apoyo en todo momento y sus ocurrencias extrañas que siempre me hacen reír. Su paso por

Amsterdam fue uno de los momentos más felices de estos 4 años. Siempre serán las hermanitas menos preferidas.

Finally, thanks to the person that made possible that this thesis has bibliography. Greg, thanks for your patience and support during the crisis and failures I had throughout the process to get here. Thanks as well for celebrating with me the successes. Among the many things I admire of you, I hope I have gotten a bit of your Swiss organisation and planning in these years, but hopefully not too much, because Colombian improvisation is necessary to spice up life ;p Thanks for being my dancing partner in life's dance.

Author Contributions

2 Environmental change effects on life history traits and population dynamics of anadromous fishes

Catalina Chaparro Pedraza and André M. de Roos

Chaparro-Pedraza and de Roos conceived the ideas, designed methodology; Chaparro-Pedraza analyzed the results and led the writing of the chapter; de Roos contributed to later versions of the chapter.

3 Low marine food levels mitigate high migration costs in anadromous populations

Catalina Chaparro Pedraza and André M. de Roos

Chaparro-Pedraza and de Roos conceived the ideas, designed methodology; Chaparro-Pedraza analyzed the results and led the writing of the chapter; de Roos contributed to later versions of the chapter.

4 Relative role of size-dependent and size-independent mortality on optimal timing of a habitat shift

Catalina Chaparro Pedraza and André M. de Roos

Chaparro-Pedraza and de Roos designed methodology; Chaparro-Pedraza conceived the ideas, analyzed the results and led the writing of the chapter; de Roos contributed to later versions of the chapter.

5 Natural selection may drive gradual and abrupt changes in ecosystems connected through complex life cycles

Catalina Chaparro Pedraza and André M. de Roos

Chaparro-Pedraza and de Roos designed methodology; Chaparro-Pedraza conceived the ideas, analyzed the results and led the writing of the chapter; de Roos contributed to later versions of the chapter.

6 Ecological change with minor effects initiates evolution to delayed catastrophic regime shift

Catalina Chaparro Pedraza and André M. de Roos

Chaparro-Pedraza and de Roos designed methodology; Chaparro-Pedraza conceived the ideas, analyzed the results and led the writing of the chapter; de Roos developed the model formulation and contributed to later versions of the chapter