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I am a marine biologist with broad interests in the ecology of benthic organisms in coastal environments. Particularly, I am interested in studying how different species interact with each other and what consequences this has for other species and the benthic species community in general. My research focuses on invasive species, parasites and habitat forming species like salt marshes and epibenthic bivalves (mussels, oysters).

ACADEMIC EDUCATION

- 04/2018 PhD at the Vrije Universiteit Amsterdam: “*Predation on intertidal mussels: Influence of biotic factors on the survival of epibenthic bivalve beds*” ([link to pdf](#))
- 08/2009 Diploma (MSc equivalent) in Biology at the University of Cologne: “*Predation on macroinvertebrates of the Lower Rhine by the Chinese mitten crab (Eriocheir sinensis, Decapoda, Grapsidae)*”

PROFESSIONAL EXPERIENCE

- 11/2019–present Postdoctoral researcher at AWI- Alfred Wegener Institute – Wadden Sea Station Sylt
- 02/2019–04/2019 Postdoctoral researcher at Wageningen Marine Research
- 06/2018–05/2019 Postdoctoral researcher at NIOZ- Royal Netherlands Institute for Sea Research
- 09/2016–09/2018 Lab Assistant at the ballast water testing company Control Union Water
- 01/2016–05/2016 Junior Researcher at Sovon Dutch Centre for Field Ornithology
- 02/2010–12/2014 PhD Student at NIOZ- Royal Netherlands Institute for Sea Research

PUBLICATIONS

Reise, K, Wegner KM, Borchering R, Brand S, Buschbaum C, **Waser AM** (in press). Manila clams *Ruditapes philippinarum* spreading north and establishing in the European Wadden Sea. Estuarine, Coastal and Shelf Science.

Willems M, **Waser AM** (in press). First record of *Atelecyclus undecimdentatus* (Herbst, 1783) (Decapoda: Brachyura: Atelecyclidae) along the Dutch North Sea coast. Crustaceana. 10.1163/15685403-bja10421

Buschbaum C, Shama LNS, Amorim FLL, Brand S, Broquard CMA, Camillini N, Cornelius A, Dolch T, Dummermuth A, Feldner J, Guignard MS, Habedank J, Hoffmann JLL, Horn S, Konysova G, Koop-Jakobsen K, Lauerburg R, Mehler K, Odongo V, Petri M, Reents S, Rick JJ, Rubinetti S, Salah M, Sander L, Sidorenko V, Spence-Jones HC, van Beusekom JEE, **Waser AM**, Wegner KM, Wiltshire KH (2024). Climate change impacts on a sedimentary coast—a regional synthesis from genes to ecosystems. *Marine Biodiversity* 54:64. [10.1007/s12526-024-01453-5](https://doi.org/10.1007/s12526-024-01453-5)

Huang Q, **Waser AM**, Li C, Thieltges DW (2024). Lack of *Hematodinium* microscopic detection in crustaceans at the northern and southern ends of the Wadden Sea and an update of its distribution in Europe. *Marine Biology* 171:63. [10.1007/s00227-023-04381-3](https://doi.org/10.1007/s00227-023-04381-3)

Cornelius A, Buschbaum C, Khosravi M, **Waser AM**, Wegner KM, Thieltges DW (2023). Effect of predation risk on parasite transmission from first to second intermediate trematode hosts. *Journal of Animal Ecology* 92: 991-1000. [10.1111/1365-2656.13921](https://doi.org/10.1111/1365-2656.13921)

Reise K, Buschbaum C, Lackschewitz D, Thieltges DW, **Waser AM**, Wegner KM (2023). Introduced species in a tidal ecosystem of mud and sand: Curse or blessing? *Marine Biodiversity* 53:5. [10.1007/s12526-022-01302-3](https://doi.org/10.1007/s12526-022-01302-3)

Al-Wazzan Z, **Waser AM**, Glenner H, Gimenez L, Thieltges DW (2021). Temporal and spatial infection patterns of the rhizocephalan parasite *Parasacculina leptodiae* (Guérin-Ganivet, 1911) in the crab *Leptodius exaratus* along the shores of Kuwait. *Marine Biodiversity* 51:90. [10.1007/s12526-021-01235-3](https://doi.org/10.1007/s12526-021-01235-3)

Waser AM, Knol J, Dekker R, Thieltges DW (2021). Invasive oysters as new hosts for native shell-boring polychaetes: Using historical shell collections and recent field data to investigate parasite spillback in native mussels in the Dutch Wadden Sea. *Journal of Sea Research* 175:102086. [10.1016/j.seares.2021.102086](https://doi.org/10.1016/j.seares.2021.102086)

Riekenberg PM, Joling T, IJsseldijk LL, **Waser AM**, van der Meer MTJ, Thieltges DW (2021). Stable nitrogen isotope analysis of amino acids as a new tool to clarify complex parasite-host interactions within food webs. *Oikos* 130:1650–1664. [10.1111/oik.08450](https://doi.org/10.1111/oik.08450)

Jung AS, van der Veer HW, Philippart CJM, **Waser AM**, Ens BJ, de Jonge VN, Schückel U (2020). Impacts of macrozoobenthic invasions on a temperate coastal food web. *Marine Ecology Progress Series* 653:19–39. [10.3354/meps13499](https://doi.org/10.3354/meps13499)

Waser AM, Lackschewitz D, Knol J, Reise K, Wegner KM, Thieltges DW (2020). Spread of the invasive shell-boring annelid *Polydora websteri* (Polychaeta, Spionidae) into naturalised oyster reefs in the European Wadden Sea. *Marine Biodiversity* 50:63. [10.1007/s12526-020-01092-6](https://doi.org/10.1007/s12526-020-01092-6)

Bouwmeester MM, **Waser AM**, van der Meer J, Thieltges DW (2020). Prey size selection in invasive (*Hemigrapsus sanguineus* and *H. takanoi*) compared to native (*Carcinus maenas*) marine crabs. *Journal of the Marine Biological Association of the United Kingdom* 100:73–77. [10.1017/S0025315419000985](https://doi.org/10.1017/S0025315419000985)

Cornelius A, **Waser AM**, Buschbaum C, Thieltges DW (2019). First record of the endoparasitic isopod *Portunion maenadis* (Giard, 1886) (Epicaridea: Entoniscidae) in shore crabs in the Wadden Sea and a review of its distribution in Europe. *Marine Biodiversity* 49:2931–2936. [10.1007/s12526-019-01012-3](https://doi.org/10.1007/s12526-019-01012-3)

van der Meer J, Dankers N, Ens BJ, van Stralen M, Troost K, **Waser AM** (2019). The birth, growth and death of intertidal soft-sediment bivalve beds: No need for large-scale restoration programs in the Dutch Wadden Sea. *Ecosystems* 22:1024–1034. [10.1007/s10021-018-0320-7](https://doi.org/10.1007/s10021-018-0320-7)

Goedknecht MA, Nauta R, Markovic M, Buschbaum C, Folmer EO, Luttikhuis PC, van der Meer J, **Waser AM**, Wegner KM, Thieltges DW (2019). How invasive oysters can affect parasite infection patterns in native mussels on a large spatial scale. *Oecologia* 190:99–113. [10.1007/s00442-019-04408-x](https://doi.org/10.1007/s00442-019-04408-x)

Waser AM, Dekker R, Witte JIJ, McSweeney N, Ens BJ, van der Meer J (2018). Quantifying Tidal Movements of the Shore Crab *Carcinus maenas* on to Complex Epibenthic Bivalve Habitats. *Estuaries and Coasts* 54:507–520. [10.1007/s12237-017-0297-z](https://doi.org/10.1007/s12237-017-0297-z)

Goedknecht MA, Havermans J, **Waser AM**, Luttikhuis PC, Velilla E, Camphuysen CJ, van der Meer J, Thieltges DW (2017). Cross-species comparison of parasite richness, prevalence, and intensity in a native compared to two invasive brachyuran crabs. *Aquatic Invasions* 12:201–212. [10.3391/ai.2017.12.2.08](https://doi.org/10.3391/ai.2017.12.2.08)

Waser AM, Deuzeman S, van Kangeri AK, van Winden E, Postma J, de Boer P, van der Meer J, Ens BJ (2016). Impact on bird fauna of a non-native oyster expanding into blue mussel beds in the Dutch Wadden Sea. *Biological Conservation* 202:39–49. [10.1016/j.biocon.2016.08.007](https://doi.org/10.1016/j.biocon.2016.08.007)

Waser AM, Goedknecht MA, Dekker R, McSweeney N, Witte JIJ, van der Meer J, Thieltges DW (2016). Tidal elevation and parasitism: patterns of infection by the rhizocephalan parasite *Sacculina carcini* in shore crabs *Carcinus maenas*. *Marine Ecology Progress Series* 545:215–225. [10.3354/meps11594](https://doi.org/10.3354/meps11594)

Waser AM, Splinter W, van der Meer J (2015). Indirect effects of invasive species affecting the population structure of an ecosystem engineer. *Ecosphere* 6(7):109. [10.1890/ES14-00437.1](https://doi.org/10.1890/ES14-00437.1)