List of papers included in the meta-analysis

Arendt, M. D., Segars, A. L., Byrd, J. I., Boynton, J., Schwenter, J. A., Whitaker, J. D. and Parker, L. (2012). Migration, distribution, and diving behavior of adult male loggerhead sea turtles (*Caretta caretta*) following dispersal from a major breeding aggregation in the Western North Atlantic. *Marine Biology* **159**, 113-125.

Aubret, F., Tort, M. and Sarraude, T. (2015). Evolution of alternative foraging tactics driven by water temperature and physiological constraints in an amphibious snake. *Biological Journal of the Linnean Society* **115**, 411-422.

Ballorain, K., Bourjea, J., Ciccione, S., Kato, A., Hanuise, N., Enstipp, M., Fossette, S. and Georges, J. Y. (2013). Seasonal diving behaviour and feeding rhythms of green turtles at Mayotte Island. *Marine Ecology Progress Series* **483**, 289-+.

Bruton, M. J., Cramp, R. L. and Franklin, C. E. (2012). Benefits of thermal acclimation in a tropical aquatic ectotherm, the Arafura filesnake, *Acrochordus arafurae*. *Journal of Comparative Physiology B-Biochemical Systems and Environmental Physiology* **182**, 541-551.

Campbell, H. A., Dwyer, R. G., Gordos, M. and Franklin, C. E. (2010b). Diving through the thermal window: implications for a warming world. *Proceedings of the Royal Society B-Biological Sciences* **277**, 3837-3844.

Clark, N. J., Gordos, M. A. and Franklin, C. E. (2008). Thermal plasticity of diving behavior, aquatic respiration, and locomotor performance in the Mary River turtle *Elusor macrurus*. *Physiological and Biochemical Zoology* **81**, 301-309.

Enstipp, M. R., Ballorain, K., Ciccione, S., Narazaki, T., Sato, K. and Georges, J. Y. (2016). Energy expenditure of adult green turtles (*Chelonia mydas*) at their foraging grounds and during simulated oceanic migration. *Functional Ecology* **30**, 1810-1825.

Hatase, H., Omuta, K. and Tsukamoto, K. (2007). Bottom or midwater: alternative foraging behaviours in adult female loggerhead sea turtles. *Journal of Zoology* **273**, 46-55.

Hazel, J., Lawler, I. R. and Hamann, M. (2009). Diving at the shallow end: Green turtle behaviour in near-shore foraging habitat. *Journal of Experimental Marine Biology and Ecology* **371**, 84-92.

Kinoshita, C., Fukuoka, T., Niizuma, Y., Narazaki, T. and Sato, K. (2018). High resting metabolic rates with low thermal dependence induce active dives in overwintering Pacific juvenile loggerhead turtles. *Journal of Experimental Biology* **221**, jeb175836.

Narazaki, T., Sato, K. and Miyazaki, N. (2015). Summer migration to temperate foraging habitats and active winter diving of juvenile loggerhead turtles *Caretta caretta* in the western North Pacific. *Marine Biology* **162**, 1251-1263.

Prassack, S. L., Bagatto, B. and Henry, R. P. (2001). Effects of temperature and aquatic Po-2 on the physiology and behaviour of *Apalone ferox* and *Chrysemys picta*. *Journal of Experimental Biology* **204**, 2185-2195.

Pratt, K. L. and Franklin, C. E. (2010). Temperature independence of aquatic oxygen uptake in an air-breathing ectotherm and the implications for dive duration. *Comparative Biochemistry and Physiology a-Molecular & Integrative Physiology* **156**, 42-45.

Priest, T. E. and Franklin, C. E. (2002). Effect of water temperature and oxygen levels on the diving behavior of two freshwater turtles: *Rheodytes leukops* and *Emydura macquarii*. *Journal of Herpetology* **36**, 555-561.

Renaud, M. L. and Carpenter, J. A. (1994). Movements and submergence patterns of loggerhead turtles (*Caretta caretta*) in the Gulf of Mexico determined through satellite telemetry. *Bulletin of Marine Science* **55**, 1-15.

Reyes, C. and Milsom, W. K. (2010). Circadian and Circannual Rhythms in the Metabolism and Ventilation of Red-Eared Sliders (*Trachemys scripta elegans*). *Physiological and Biochemical Zoology* **83**, 283-298.

Rodgers, E. M. and Franklin, C. E. (2017). Physiological mechanisms constraining ectotherm fright-dive performance at elevated temperatures. *Journal of Experimental Biology* **220**, 3556-3564.

Rodgers, E. M., Schwartz, J. J. and Franklin, C. E. (2015). Diving in a warming world: the thermal sensitivity and plasticity of diving performance in juvenile estuarine crocodiles (Crocodylus porosus). *Conservation Physiology* **3**, 9.

Šamajová, P. and Gvoždík, L. (2009). The influence of temperature on diving behaviour in the alpine newt, *Triturus alpestris*. *Journal of Thermal Biology* **34**, 401-405.

Santos, E. A., Laitano, S. Y. T. and Genofre, G. C. (1990). Diving physiology of *Chrysemys dorbignyi* Dum & Bibr., 1835 (Reptilia: Chelonia). *Comparative Biochemistry and Physiology -- Part A: Physiology* **95**, 229-236.

Schaffer, J. R., Hamann, M., Rowe, R. and Burrows, D. W. (2016). Muddy waters: the influence of high suspended-sediment concentration on the diving behaviour of a bimodally respiring freshwater turtle from north-eastern Australia. *Marine and Freshwater Research* **67**, 505-512.

Seebacher, F., Franklin, C. E. and Read, M. (2005). Diving behaviour of a reptile (*Crocodylus johnstoni*) in the wild: Interactions with heart rate and body temperature. *Physiological and Biochemical Zoology* **78**, 1-8.

Southwood, A. L., Reina, R. D., Jones, V. S. and Jones, D. R. (2003). Seasonal diving patterns and body temperatures of juvenile green turtles at Heron Island, Australia. *Canadian Journal of Zoology* **81**, 1014-1024.

Storch, S., Wilson, R. P., Hillis-Starr, Z. M. and Adelung, D. (2005). Cold-blooded divers: temperature-dependent dive performance in the wild hawksbill turtle *Eretmochelys imbricata*. *Marine Ecology Progress Series* **293**, 263-271.

Storey, E. M., Kayes, S. M., De Vries, I. and Franklin, C. E. (2008). Effect of water depth, velocity and temperature on the surfacing frequency of the bimodally respiring turtle *Elseya albagula*. *Functional Ecology* **22**, 840-846.

Udyawer, V., Simpfendorfer, C. A., Heupel, M. R. and Clark, T. D. (2016). Coming up for air: thermal dependence of dive behaviours and metabolism in sea snakes. *Journal of Experimental Biology* **219**, 3447-3454.

Uriona, T. J., Lyon, M. and Farmer, C. G. (2009). The importance of the M. diaphragmaticus to the duration of dives in the American alligator (*Alligator mississippiensis*). *Zoology* **112**, 263-269.