

Using the VEMCO Positioning System (VPS) to explore fine-scale movements of aquatic species: applications, analytical approaches and future directions

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Supplementary material 1

S1 VPS articles reference list

Includes all VPS articles identified using the search terms described in the manuscript. Numbers in superscript indicate data used by multiple articles, note article may still contain unique species datasets if multiple species were tagged. Ordinal number determined by timeline of search and is therefore non-alphabetical. Full dataset from review available on reasonable request

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S2 VPS methodological article list

Includes VPS methodological studies identified using the search terms and subsequently excluded from the review as they did not directly tag any animals or utilise animal tracking data

Binder TR, Holbrook CM, Hayden TA, Krueger CC (2016) Spatial and temporal variation in positioning probability of acoustic telemetry arrays: fine-scale variability and complex interactions. *Animal Biotelemetry* 4:4.

Binder TR, Holbrook CM, Miehl SM, Thompson HT, Krueger CC (2014) Use of oviduct-inserted acoustic transmitters and positional telemetry to estimate timing and location of spawning: a feasibility study in lake trout, *Salvelinus namaycush*. *Anim Biotelemetry* 2:1–14.

Cho S, Zhang F, Edwards C (2016) Tidal Variability of Acoustic Detection. In: *2016 IEEE International Conferences on Big Data and Cloud Computing (BDCloud), Social Computing and Networking (SocialCom), Sustainable Computing and Communications (SustainCom) (BDCloud-SocialCom-SustainCom)*. 431–436

- Farmer NA, Ault JS, Smith SG, Franklin EC (2013) Methods for assessment of short-term coral reef fish movements within an acoustic array. *Mov Ecol* 1:7.
- Reubens J, Verhelst P, van der Knaap I, Deneudt K, Moens T, Hernandez F (2019) Environmental factors influence the detection probability in acoustic telemetry in a marine environment: results from a new setup. *Hydrobiologia* 845:81–94.
- Roy R, Beguin J, Argillier C, Tissot L, Smith F, Smedbol S, De-Oliveira E (2014) Testing the VEMCO Positioning System: spatial distribution of the probability of location and the positioning error in a reservoir. *Anim Biotelem* 2:1.
- Steel AE, Coates JH, Hearn AR, Klimley AP (2014) Performance of an ultrasonic telemetry positioning system under varied environmental conditions. *Anim Biotelemetry* 2:1–17.
- Swadling DS, Knott NA, Rees MJ, Pederson H, Adams KR, Taylor MD, Davis AR (2020) Seagrass canopies and the performance of acoustic telemetry: implications for the interpretation of fish movements. *Anim Biotelemetry* 8:8.
- Vergeynst J, Baktoft H, Mouton A, De Mulder T, Nopens I, Pauwels I (2020) The influence of system settings on positioning accuracy in acoustic telemetry, using the YAPS algorithm. *Anim Biotelemetry* 8:1–12.