

## Mark Johnson - Recent Publications

- Rutz C, Loretto MC, Bates A, Davidson S, Duarte C, Jetz W, **Johnson M**, Kato A, Kays R, Mueller T, Primack R, Ropert-Coudert Y, Tucker M, Wikelski M, Cagnacci F. COVID-19 lockdown allows researchers to quantify the effects of human activity on wildlife. *Nature Ecol & Evol*. DOI 10.1038/s41559-020-1237-z
- Goulet P, Guinet C, Campagna C, Campagna J, Tyack P, **Johnson M** 2020 Flash and grab: deep-diving southern elephant seals trigger anti-predator flashes in bioluminescent prey. *J. Exp. Biol.* 223. DOI 10.1242/jeb.222810
- Stidsholt L, Müller R, Beedholm K, Ma H, **Johnson M**, Madsen PT 2020 Energy compensation and received echo level dynamics in high frequency CF bats during active target approaches. *J. Exp. Biol.* 223. DOI 10.1242/jeb.217109
- Parks S, Dombroski J, Shorter K, Wiley D, Ross M, **Johnson M** 2020 Extended duration acoustic tags provide insight into variation in behavioral response to noise by marine mammals. *Proc Meetings on Acoustics* 37:010013. DOI 10.1121/2.0001239
- Aguilar de Soto N, Visser F, Tyack P, Alcazar J, Ruxton G, Arranz P, Madsen PT, **Johnson M** 2020 Fear of killer whales drives extreme synchrony in deep-diving beaked whales. *Scientific Reports*, 10:13. DOI 10.1038/s41598-019-55911-3
- Dornelas M, Madin E, Bunce M, Dibattista J, **Johnson M**, Madin J, Magurran A, McGill B, Pettoirelli N, Pizarro O, Williams S, Winter M, Bates A 2019 Towards a macroscope: leveraging technology to transform the breadth, scale and resolution of macroecological data. *Journal of Global Ecology and Biogeography* 28:1937-1948. DOI 10.1111/geb.13025
- Andrews R, Baird R, Calambokidis J, Goertz C, Gulland F, Heide-Jørgensen M, Hooker S, **Johnson M**, Mate B, Mitani Y, Nowacek D, Owen K, Quakenbush L, Raverty S, Robbins J, Schorr G, Shpak O, Townsend F Jr, Uhart M, Wells R, Zerbini A 2019 Best practice guidelines for cetacean tagging. *Journal of Cetacean Research and Management* 20:27-66.
- Foskolos I, Aguilar N, Madsen P, **Johnson M** 2019 Deep diving pilot whales make cheap, but powerful, echolocation clicks with 50 $\mu$ L of air. *Scientific Reports* 9:15720. DOI 10.1038/s41598-019-51619-6
- Hermanssen L, Mikkelsen L, Tougaard J, Beedholm K, **Johnson M**, Madsen PT 2019 Small, noisy and unaccounted for: Vessels without Automatic Identification System (AIS) dominate anthropogenic contributions to a shallow water soundscape. *Scientific Reports* 9,15477. DOI 10.1038/s41598-019-51222-9
- Goulet P, Guinet C, Swift R, Madsen PT, **Johnson M** 2019 A miniature biomimetic sonar and movement tag to study the biotic environment and predator-prey interactions in aquatic animals. *Deep Sea Research I* 148:1-11. DOI 10.1016/j.dsr.2019.04.007
- Gabalton J, Turner E, Johnson-Roberson M, Barton K, **Johnson M**, Anderson E, Shorter KA 2019. Integration, calibration and experimental verification of a speed sensor for swimming animals. *IEEE Sensors* 19:3616-3625. DOI 10.1109/JSEN.2019.2895806
- Ladegaard M, Mulsow J, Houser D, Jensen F, **Johnson M**, Madsen P, Finneran J 2019 Dolphin echolocation behaviour during active long-range target approaches. *J Exp Biol.* 222: 189217. DOI 10.1242/jeb.189217
- Bernaldo de Quirós Y, Fernandez A, Baird RW, Brownell RL, Aguilar N, Allen D, Arbelo M, Arregui-Gil M, Costidis A, Fahlman A, Frantzis A, Gulland FMD, Iñíguez M, **Johnson M**, Komnenou A, Koopman H, Pabst A, Roe WD, Sierra E, Tejedor M, Schorr G 2019 Advances in research on the impacts of anti-submarine sonar on beaked whales. *Proc Royal Soc B* 286: 20182533. DOI 10.1098/rspb.2018.2533
- Mikkelsen L, **Johnson M**, Wisniewska D, Neer A, Siebert U, Madsen P, Teilmann J. 2019 Long-term sound and movement recording tags to study natural behaviour and reactions to ship noise of seals. *Ecol and Evol.* 9:2588-2601. DOI 10.1002/ece3.4923
- Stidsholt L, **Johnson M**, Beedholm K, Jakobsen L, Kugler K, Brinkløv S, Salles A, Moss C, Madsen P 2018 A 2.6-gram sound and movement tag for studying the acoustic scene and kinematics of echolocating bats. *Methods in Ecol Evol.* DOI 10.1111/2041-210X.13108
- Jensen F, **Johnson M**, Ladegaard M, Wisniewska D, Madsen P 2018 Narrow acoustic field of view drives echolocation scaling in toothed whale biosonar. *Current Biol* 28:3878-3885. DOI 10.1016/j.cub/2018:10.037
- Rojano-Donate L, McDonald B, Wisniewska D, **Johnson M**, Teilmann J, Wahlberg M, Hoejer-Kristensen J, Madsen P 2018 High field metabolic rates of wild harbour porpoises. *J Exp Biol* 221. DOI 10.1242/jeb.185827
- Izadi S, **Johnson M**, Aguilar de Soto N, Constantine R 2018. Nightlife of Bryde's whales: ecological implications of resting in a baleen whale. *Behav Ecol Sociobiol* 72. DOI 10.1007/s00265-018-2492-8
- Sørensen P, Wisniewska D, **Johnson M**, Teilmann J, Madsen P, Jensen F 2018 Click communication in wild harbour porpoises (*Phocoena phocoena*). *Scientific Reports*, DOI 10.1038/s41598-018-28022-8
- Wisniewska D, **Johnson M**, Teilmann J, Siebert U, Galatius A, Dietz R, Madsen P 2018 High rates of vessel noise disrupt foraging in wild harbour porpoises. *Proc Royal Soc. B* 285:20172314. DOI 10.1098/rspb.2017.2314