

## HIFI publications

### 2019 and in press

261. Baker, N., Haro, A., Watten, B., Noreika, J. & **Bolland, J. D.** (2019). Comparison of attraction, entrance and passage of downstream migrant American eels (*Anguilla rostrata*) through airlift and siphon deep entrance bypass systems. *Ecological Engineering* **126**, 74-82.
260. **Bolland, J. D.**, Murphy, L. A., Stanford, R. J., Angelopoulos, N. V., Baker, N. J., Wright, R. M., Reeds, J. D. & **Cowx, I. G.** (2019). Direct and indirect impacts of pumping station operation on downstream migration of critically endangered European eel. *Fisheries Management and Ecology* **26**, 76-85.
259. **Bolland, J. D.**, **Nunn, A. D.**, Angelopoulos, N. V., **Dodd, J. R.**, Davies, P., Gutmann Roberts, C., Britton, J. R. & **Cowx, I. G.** (2019). Refinement of acoustic-tagging protocol for twaite shad *Alosa fallax* (Lacépède), a species sensitive to handling and sedation. *Fisheries Research* **212**, 183-187.
258. Browman, H. I., Cooke, S. J., **Cowx, I. G.**, Derbyshire, S. W. G., Kasumyan, A., Key, B., Rose, J. D., Schwab, A., Skiftesvik, A. B., Stevens, E. D., Watson, C. A. & Arlinghaus, R. (2019). Welfare of aquatic animals: where things are, where they are going, and what it means for research, aquaculture, recreational angling, and commercial fishing. *ICES Journal of Marine Science* **76**, 82-92.
257. Conallin, J. C., Baumgartner, L. J., Lunn, Z., Akester, M., Win, N., Tun, N. N., Nyunt, M. M. M., Swe, A. M., Chan, N. & **Cowx, I. G.** (2019). Migratory fishes in Myanmar rivers and wetlands: challenges for sustainable development between irrigation water control infrastructure and sustainable inland capture fisheries. *Marine and Freshwater Research* in press.
256. **Nunn, A. D.** (2019). Notable records of leaf-mining moths in East Yorkshire, 2017 and 2018. *The Naturalist* **144**, 46–51.
255. Phang, S. C., Cooperman, M., Lynch, A. J., Steel, E. A., Elliott, V., Murchie, K. J., Cooke, S. J., Dowd, S. & **Cowx, I. G.** (2019). Fishing for conservation of freshwater tropical fishes in the Anthropocene. *Aquatic Conservation: Marine and Freshwater Ecosystems* **29**, 1039-1051.
254. Sánchez-Hernández, J., **Nunn, A. D.**, Adams, C. E. & Amundsen, P.-A. (2019). Causes and consequences of ontogenetic dietary shifts: a global synthesis using fish models. *Biological Reviews* **94**, 539-554.

### 2018

253. Angelopoulos, N. V., **Harvey, J. P.**, **Bolland, J. D.**, **Nunn, A. D.**, **Noble, R. A. A.**, Smith, M. A., Taylor, M. J., Masters, J. E. G., Moxon, J. & **Cowx, I. G.** (2018). Overcoming the dichotomy of implementing societal flood risk management while conserving instream fish habitat – a long-term study from a highly modified urban river. *Journal of Environmental Management* **224**, 69-76.
252. Brewster, L. R., Dale, J. J., Guttridge, T. L., Gruber, S. H., Hansell, A. C., Elliott, M., **Cowx, I. G.**, Whitney, N. M. & Gleiss, A. C. (2018). Development and application of a machine learning algorithm for classification of elasmobranch behaviour from accelerometry data. *Marine Biology* **165**, 62.
251. **Cowx, I. G.**, Lungu, A. & Kalonga, M. (2018). Optimising hydropower development and ecosystem services in the Kafue River, Zambia. *Marine and Freshwater Research* **69**, 1974-1982.
250. **Dodd, J. R.**, **Bolland, J. D.**, Hateley, J., **Cowx, I. G.**, Walton, S. E., Cattaneo, M. E. G. V. & **Noble, R. A. A.** (2018). Upstream passage of adult sea trout (*Salmo trutta*) at a low-head weir with an Archimedean screw hydropower turbine and co-located fish pass. *Marine and Freshwater Research* **69**, 1822-1833.
249. **Dodd, J. R.**, **Cowx, I. G.** & **Bolland, J. D.** (2018). Win, win, win: low cost baffle fish pass provides improved passage efficiency, reduced passage time and broadened passage flows over a lowhead weir. *Ecological Engineering* **120**, 68-75.

248. Lloret, J., **Cowx, I. G.**, Cabral, H., Castro, M., Font, T., Gonçalves, J. M. S., Gordo, A., Hoefnagel, E., Matić-Skoko, S., Mikkelsen, E., Morales-Nin, B., Moutopoulos, D. K., Muñoz, M., Neves dos Santos, M., Pintassilgo, P., Pita, C., Stergiou, K. I., Ünal, V., Veiga, P. & Erzini, K. (2018). Small-scale coastal fisheries in European Seas are not what they were: ecological, social and economic changes. *Marine Policy* **98**, 176-186.
247. Riley, W. D., Potter, E. C. E., Biggs, J., Collins, A. L., Jarvie, H. P., Jones, J. I., Kelly-Quinn, M., Ormerod, S. J., Sear, D. A., Wilby, R. L., Broadmeadow, S., Brown, S. D., Chaninl, P., Copp, G. H., **Cowx, I. G.**, Grogan, A., Hornby, D. D., Huggett, D., Kelly, M. G., Naura, M., Newman, J. R. & Siriwardena, G. (2018). Small water bodies in Great Britain and Ireland: ecosystem function, human-generated degradation, and options for restorative action. *Science of the Total Environment* **645**, 1598-1616.

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246. Angelopoulos, N. V., **Cowx, I. G.** & Buijse, A. D. (2017). Integrated planning framework for successful river restoration projects: upscaling lessons learnt from European case studies. *Environmental Science and Policy* **76**, 12-22.
245. Copeland, C., Baker, E., Koehn, J. D., Morris, S. G. & **Cowx, I. G.** (2017). Motivations of recreational fishers involved in fish habitat management. *Fisheries Management and Ecology* **24**, 82-92.
244. Diggles, B. K., Arlinghaus, R., Browman, H. I., Cooke, S. J., **Cowx, I. G.**, Kasumyan, A. O., Key, B., Rose, J. D., Sawynok, W., Schwab, A., Skiftesvik, A. B., Stevens, E. D., Watson, C. A. & Wynne, C. D. L. (2017). Responses of larval zebrafish to low pH immersion assay generate multiple interpretations, questions and problems. Comment on Lopez-Luna *et al.* (2017). *Journal of Experimental Biology* **220**, 3191-3192.
243. **Dodd, J. R., Cowx, I. G. & Bolland, J. D.** (2017). Efficiency of a nature-like bypass channel for restoring longitudinal connectivity for a river-resident population of brown trout. *Journal of Environmental Management* **204**, 318-326.
242. García de Jalón, D., Bussettini, M., Rinaldi, M., Grant, G., Friberg, N., **Cowx, I. G.**, Magdaleno, F. & Buijse, A. D. (2017). Linking environmental flows to sediment dynamics. *Water Policy* **19**, 358-375.
241. Key, B., Arlinghaus, R., Browman, H. I., Cooke, S. J., **Cowx, I. G.**, Diggles, B. K., Rose, J. D., Sawynok, W., Schwab, A., Skiftesvik, A. B., Stevens, E. D. & Watson, C. A. (2017). Problems with equating thermal preference with “emotional fever” and sentience. Comment on Rey *et al.* (2015) Fish can show emotional fever: stress-induced hyperthermia in zebrafish. *Proceedings of the Royal Society of London B* **284**, 20160681.
240. Lynch, A. J., Cooke, S. J., Beard, T. D., Kao, Y. C., Lorenzen, K., Song, A. M., Allen, M. S., Basher, Z., Bunnell, D. B., Camp, E. V., **Cowx, I. G.**, Freedman, J. A., Nguyen, V. M., Nohner, J., Rogers, M. W., Siders, Z. A., Taylor, W. W. & Youn, S. (2017). Grand challenges in the management and conservation of North American inland fish and fisheries. *Fisheries* **42**, 115-124.
239. Lynch, A. J., **Cowx, I. G.**, Fluet-Chouinard, E., Glaser, S. M., Phang, S. C., Beard, T. D., Bower, S. D., Brooks, J. L., Bunnell, D. B., Claussen, J. E., Cooke, S. J., Kao, Y. C., Lorenzen, K., Myers, B. J. E., Reid, A. J., Taylor, J. J. & Youn, S. (2017). Inland fisheries – invisible but integral to the UN Sustainable Development Agenda for ending poverty by 2030. *Global Environmental Change* **47**, 167-173.
238. **Nunn, A. D.** (2017). New species of leaf-mining moths and bagworms in East Yorkshire: recent colonists or overlooked residents? *Entomologist's Record and Journal of Variation* **129**, 156-159.
237. **Nunn, A. D.**, Taylor, R. J., **Cowx, I. G.**, **Noble, R. A. A.**, **Bolland, J. D.** & **Harvey, J. P.** (2017). Demography of sea lamprey (*Petromyzon marinus*) ammocoete populations in relation to potential spawning-migration obstructions. *Aquatic Conservation: Marine and Freshwater Ecosystems* **27**, 764-772.

236. Paukert, C. P., Lynch, A. J., Beard, T. D., Chen, Y., Cooke, S. J., Cooperman, M. S., **Cowx, I. G.**, Ibengwe, L., Infante, D. M., Myers, B. J. E., Phú Hòa, N. & Winfield, I. J. (2017). Designing a global assessment of climate change on inland fishes and fisheries: knowns and needs. *Reviews in Fish Biology and Fisheries* **27**, 393-409.
235. Rees, E. M. A., Edmonds-Brown, V. R., Alam, M. F., Wright, R. M., Britton, J. R., Davies, G. D. & **Cowx, I. G.** (2017). Socio-economic drivers of specialist anglers targeting the non-native European catfish (*Silurus glanis*) in the UK. *PLoS ONE* **12**, e0178805.
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233. Walton, S. E., **Nunn, A. D.**, Probst, W. N., **Bolland, J. D.**, Acreman, M. & **Cowx, I. G.** (2017). Do fish go with the flow? The effects of periodic and episodic flow pulses on 0+ fish biomass in a constrained lowland river. *Ecohydrology* **10**, e1777.

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231. Beard, T. D., Allison, E. H., Bartley, D. M., **Cowx, I. G.**, Cooke, S. J., Fuentesvilla, C., Lynch, A. J. & Taylor, W. W. (2017). Inland fish and fisheries: a call to action. In: C. Goddard, N. Leonard, W. W. Taylor & D. Bartley (eds) *Freshwater, Fish, and the Future*. American Fisheries Society, Bethesda, MD.
230. Collares-Pereira, M. J., Skelton, P. H. & **Cowx, I. G.** (2016). Maintaining taxonomic skills. The decline of taxonomy – a threat to fish conservation. In: G. P. Closs, M. Krkosek & J. D. Olden (eds) *Conservation of Freshwater Fishes*. Cambridge: Cambridge University Press, pp. 535-562.
229. Cooke, S. J., Arthington, A. H., Bonar, S. A., Bower, S. D., Bunnell, D. B., Entsua-Mensah, R. E. M., Funge-Smith, S., Koehn, J. D., Lester, N. P., Lorenzen, K., Nam, S., Randall, R. G., Venturelli, P. & **Cowx, I. G.** (2016). Assessment of inland fisheries: a vision for the future. In: C. Goddard, N. Leonard, W. W. Taylor & D. Bartley (eds) *Freshwater, Fish, and the Future*. American Fisheries Society, Bethesda, MD.
228. Cooke, S. J., Bartley, D. M., Beard, T. D., **Cowx, I. G.**, Goddard, C., Fuentesvilla, C., Leonard, N., Lynch, A. J., Lorenzen, K. & Taylor, W. W. (2016). The Rome Declaration: ten steps to responsible inland fisheries that support livelihoods, food security, and healthy aquatic ecosystems. In: C. Goddard, N. Leonard, W. W. Taylor & D. Bartley (eds) *Freshwater, Fish, and the Future*. American Fisheries Society, Bethesda, MD.
227. Cooke, S. J., Nguyen, V. M., Dettmers, J. M., Arlinghaus, R., Quist, M. C., Tweddle, D., Weyl, O. L. F., Raghavan, R., Portocarrero-Aya, M., Agudelo Cordoba, E. & **Cowx, I. G.** (2016). Sustainable inland fisheries – perspectives from the recreational, commercial and subsistence sectors from around the globe. In: G. P. Closs, M. Krkosek & J. D. Olden (eds) *Conservation of Freshwater Fishes*. Cambridge: Cambridge University Press, pp. 467-505.
226. Cooke, S. J., Allison, E. H., Beard, T. D., Arlinghaus, R., Arthington, A. H., Bartley, D. M., **Cowx, I. G.**, Fuentesvilla, C., Leonard, N. J., Lorenzen, K., Lynch, A. J., Nguyen, V. M., Youn, S. J., Taylor, W. W. & Welcomme, R. L. (2016). On the sustainability of inland fisheries: finding a future for the forgotten. *Ambio* **45**, 753-764.
225. Copp, G. H., Russell, I. C., Peeler, E. J., Gherardi, F., Tricarico, E., MacLeod, A., **Cowx, I. G.**, **Nunn, A. D.**, Occhipinti-Ambrogi, A., Savini, D., Mumford, J. & Britton, J. R. (2016). European Non-native Species in Aquaculture Risk Analysis Scheme (ENSARS) – a summary of assessment protocols and decision-support

- tools for use of alien species in aquaculture and stock enhancement. *Fisheries Management and Ecology* **23**, 1-11.
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223. Hamilton, P. B., **Cowx, I. G.**, Oleksiak, M. F., Griffiths, A. M., Grahn, M., Stevens, J. R., Carvalho, G. R., Nicol, E. & Tyler, C. R. (2016). Population-level consequences for wild fish exposed to sublethal concentrations of chemicals – a critical review. *Fish and Fisheries* **17**, 545-566.
222. Hughes, R. M., Alves, C. B. M., Amezcua, F., Claussen, J., Cooke, S. J., **Cowx, I. G.**, Fausch, K. D., Ferreira, M. T., Franzin, W. G., Hall, D., Ipinmoroti, M. O., Ligeiro, R., Mercado-Silva, N., Miller, M., Pompeu, P. S., Schmidt, D. C., Silva, L. G. M. & Terra, B. F. (2016). Preparing for international research and teaching. *Fisheries* **41**, 464-465.
221. Lorenzen, K., **Cowx, I. G.**, Entsua-Mensah, R. E. M., Lester, N. P., Koehn, J. D., Randall, R. G., So, N., Bonar, S. A., Bunnell, D. B., Venturelli, P., Bower, S. D. & Cooke, S. J. (2016). Stock assessment in inland fisheries: a foundation for sustainable use and conservation. *Reviews in Fish Biology and Fisheries* **26**, 405-440.
220. Lynch, A. J., Cooke, S. J., Deines, A. M., Bower, S. D., Bunnell, D. B., **Cowx, I. G.**, Nguyen, V. M., Nohner, J., Phouthavong, K., Riley, B., Rogers, M. W., Taylor, W. W., Woelmer, W., Youn, S. & Beard, T. D. (2016). The social, economic, and environmental importance of inland fish and fisheries. *Environmental Reviews* **24**, 115-121.
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215. Sánchez-Hernández, J. & **Nunn, A. D.** (2016). Environmental changes in a Mediterranean river: implications for the fish assemblage. *Ecohydrology* **9**, 1439-1451.
214. Stevens, E. D., Arlinghaus, R., Browman, H. I., Cooke, S. J., **Cowx, I. G.**, Diggles, B. K., Key, B., Rose, J. D., Sawynok, W., Schwab, A., Skiftesvik, A. B., Watson, C. A. & Wynne, C. D. L. (2016). Stress is not pain. Comment on Elwood & Adams (2015) 'Electric shock causes physiological stress responses in shore crabs, consistent with prediction of pain'. *Biology Letters* **12**, 20151006.
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205. Lozano, E., Gracia, J., Corcho, O., **Noble, R. A.** & Gómez-Pérez, A. (2015). Problem-based learning supported by semantic techniques. *Interactive Learning Environments* **23**, 37-54.
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202. Acreman, M. C., Overton, I., King, J., Wood, P., **Cowx, I. G.**, Dunbar, M. J., Kendy, E. & Young, W. (2014). The changing role of eco-hydrological science in guiding environmental flows. *Hydrological Sciences Journal* **59**, 1-18.
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