

## References associated with the mobility and growth rate database

1. K. M. Bailey, Shifting control of recruitment of walleye pollock *Theragra chalcogramma* after a major climatic and ecosystem change. *Mar. Ecol. Prog. Ser.* **198**, 215–224 (2000).
2. S. D. Carr, R. A. Tankersley, J. L. Hensch, R. B. Forward, R. A. Luettich, Movement patterns and trajectories of ovigerous blue crabs *Callinectes sapidus* during the spawning migration. *Estuar. Coast. Shelf Sci.* **60**, 567–579 (2004).
3. L. J. Atkinson, G. M. Branch, Longshore Movements of Adult Male *Jasus Lalandii*: Evidence from Long-term Tag Recaptures. *Afr. J. Mar. Sci.* **25**, 387–390 (2003).
4. Cohen, D.M., Inada, T., Iwamoto, T. and Scialabba, N. 1990. FAO species catalogue. Vol. 10. Gadiform fishes of the world (Order Gadiformes). An annotated and illustrated catalogue of cods, hakes, grenadiers and other gadiform fishes known to date. FAO, Rome.
5. E. A. A. Abdulqader, E. Naylor, Bionomics and migration patterns of the green tiger prawn, *Penaeus semisulcatus* De Haan, in Bahrain waters. *Fish. Res.* **21**, 395–407 (1995).
6. L. D. Jacobson, R. D. Vetter, Bathymetric demography and niche separation of thornyhead rockfish: *Sebastolobus alscanus* and *Sebastolobus altivelis*. *Can. J. Fish. Aquat. Sci.* **53**, 600–609 (1996).
7. S. E. Wayte, Management implications of including a climate-induced recruitment shift in the stock assessment for jackass morwong (*Nemadactylus macropterus*) in south-eastern Australia. *Fish. Res.* **142**, 47–55 (2013).
8. J. Aguzzi, *et al.*, A new tracking system for the measurement of diel locomotor rhythms in the Norway lobster, *Nephrops norvegicus* (L.). *J. Neurosci. Methods* **173**, 215–224 (2008).
9. Apollonio, S., Stevenson, D.K. and Dunton Jr, E.E., 1986. Effects of temperature on the biology of the northern shrimp, *Pandalus borealis*, in the Gulf of Maine. NOAA Technical Report NMFS 42.
10. G. Machado-Schiaffino, E. Garcia-Vazquez, Population structure of long tailed hake *Macruronus magellanicus* in the Pacific and Atlantic oceans: Implications for fisheries management. *Fish. Res.* **111**, 164–169 (2011).
11. S. Kelly, A. B. MacDiarmid, Movement patterns of mature spiny lobsters, *Jasus edwardsii*, from a marine reserve. *New Zeal. J. Mar. Fresh.* **37**, 149–158 (2003).
12. J. C. Groeneveld, G. M. Branch, Long-distance migration of South African deep-water rock lobster *Palinurus gilchristi*. *Mar. Ecol. Prog. Ser.* **232**, 225–238 (2002).

13. J. Musick, Seasonal Distribution Of Sibling Hakes, *Urophycis-Chuss* And *Urophycis-Tenuis* (Pisces, Gadidae) In New-England. *Fish. Bull.* **72**, 481–495 (1974).
14. A. Arkhipkin, E. Boucher, P. N. Howes, Spawning and early ontogenesis in channel bull blenny *Cottoperca gobio* (Notothenioidei, Perciformes) caught off the Falkland Islands and maintained in captivity. *Polar Biol.* **38**, 251–259 (2015).
15. A. J. Jaureguizar, R. Menni, C. Lasta, R. Guerrero, Fish assemblages of the northern Argentine coastal system: spatial patterns and their temporal variations. *Fish. Oceanogr.* **15**, 326–344 (2006).
16. J. P. Barreiros, T. Morato, R. S. Santos, R.S., A. E. de Borba, Interannual changes in the diet of the almaco jack *Seriola rivoliana* (Perciformes: Carangidae) from the Azores. *Cybiu* **27**, 37–40 (2003).
17. V. Tirelli, S. Legovini, D. Borme, E. D. Poi, M. L. Mesa, Diel feeding of the transparent goby *Aphia minuta* (Pisces, Gobiidae) in the Northwestern Adriatic Sea in spring time. *Mar. Ecol.* **37**, 920–926 (2016).
18. M. Naciri, C. Lemaire, P. Borsa, F. Bonhomme, Genetic study of the Atlantic/Mediterranean transition in sea bass (*Dicentrarchus labrax*). *J. Hered.* **90**, 591–596 (1999).
19. Y. Kobayashi, T. Mototani, F. Murayama, T. Sakamoto, Basic reproductive biology of daggertooth pike conger, *Muraenesox cinereus*: A possible model for oogenesis in Anguilliformes. *Zool. Lett.* **1**, 25 (2015).
20. Steimle, F.W., Morse, W.W., Berrien, P.L., Johnson, D.L. 1999. Essential fish habitat source document: Red hake, *Urophycis chuss*, life history and habitat characteristics. NOAA Technical Memorandum NMFS-NE-133.
21. P. Brickle, V. Laptikhovsky, A. Arkhipkin, Reproductive strategy of a primitive temperate notothenioid *Eleginops maclovinus*. *J. Fish Biol.* **66**, 1044–1059 (2005).
22. K. L. Rodgers, S. R. Wing, Spatial structure and movement of blue cod *Parapercis colias* in Doubtful Sound, New Zealand, inferred from  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ . *Mar. Ecol. Prog. Ser.* **359**, 239–248 (2008).
23. S. L. Brouwer, Movement patterns of red steenbras *Petrus rupestris* tagged and released in the Tsitsikamma National Park, South Africa. *Afr. J. Mar. Sci.* **24**, 375–378 (2002).
24. B. L. Olla, A. J. Bejda, A. D. Martin, Daily activity, movements, feeding and seasonal occurrence in the tautog, *Tautoga onitis*. *Fish. Bull.* **72**(1): 27–35 (1974).
25. M. H. Griffiths, Stock Structure of Snoek *Thyrsites Atun* in the Benguela: A New Hypothesis. *Afr. J. Mar. Sci.* **25**, 383–386 (2003).

26. O. Langhamer, T. G. Dahlgren, G. Rosenqvist, Effect of an offshore wind farm on the viviparous eelpout: Biometrics, brood development and population studies in Lillgrund, Sweden. *Ecol. Indic.* **84**, 1–6 (2018).
27. N. A. Lajud, *et al.*, Reproduction of *Brevoortia aurea* (Spix & Agassiz, 1829) (Actinopterygii: Clupeidae) in the Mar Chiquita Coastal Lagoon, Buenos Aires, Argentina. *Neotrop. Ichthyol.* **14** (2016).
28. R. S. McBride, J. R. Styer, R. Hudson, Spawning cycles and habitats for ballyhoo (*Hemiramphus brasiliensis*) and balao (*H. balao*) in south Florida. *Fish. Bull.* **101**, 583–590 (2003).
29. K. S. Brendtro, J. R. McDowell, J. E. Graves, Population genetic structure of escolar (*Lepidocybium flavobrunneum*). *Mar. Biol.* **155**, 11–22 (2008).
30. M. L. Traver, L. Alade, K. A. Sosebee, Population biology of a data poor species, offshore hake (*Merluccius albidus*) in the northwest Atlantic, United States. *Fish. Res.* **114**, 42–51 (2012).
31. S. França, C. Vinagre, M. J. Costa, H. N. Cabral, Use of the coastal areas adjacent to the Douro estuary as a nursery area for pouting, *Trisopterus luscus* Linnaeus, 1758. *J. Appl. Ichthyol.* **20**, 99–104 (2004).
32. J. W. Tupen, Movement and growth of tagged California halibut, *Paralichthys californicus*, off the central coast of California. The California Halibut, *Paralichthys californicus*, Resource and Fisheries. *Calif. Fish Game* **74**, 199–206 (1990).
33. P. Fierro, C. Bertran, D. Martinez, C. Valdovinos, L. Vargas-Chacoff, Ontogenetic and temporal changes in the diet of the chilean silverside *odontesthes regia* (atherinidae) in southern chile (2014) (April 17, 2020).
34. J. G. Pajuelo, *et al.*, Biological parameters of the bathyal fish black scabbardfish (*Aphanopus carbo* Lowe, 1839) off the Canary Islands, Central-east Atlantic. *Fish. Res.* **92**, 140–147 (2008).
35. K. L. Kuhn, P. M. Gaffney, Preliminary assessment of population structure in the mackerel icefish (*Champsocephalus gunnari*). *Polar Biol.* **29**, 927–935 (2006).
36. M. F. Landaeta, P. A. Inostroza, A. Ramirez, S. Soto-Mendoza, L. R. Castro, Distribution patterns, larval growth and hatch dates of early stages of the mote sculpin *Normanichthys crockeri* (Scorpaeniformes, Normanichthyidae) in the upwelling ecosystem off central Chile. *Rev. Biol. Mar. Oceanogr.* **45**, 575–588 (2010).
37. M. R. L. Jones, B. B. Breen, Role of scavenging in a synphobranchid eel (*Diastobranchus capensis*, Barnard, 1923), from northeastern Chatham Rise, New Zealand. *Deep Sea Res. Part I Oceanogr. Res. Pap.* **85**, 118–123 (2014).

38. J. Iannacone, *et al.*, Comunidades ectoparasitarias branquiales de la pintadilla *Cheilodactylus variegatus* Valenciennes 1833 (Pisces: Cheilodactylidae). *Parasitol. Latinoam.* **58**, 59–67 (2003).
39. J. C. Groeneveld, Long-distance migration of the rock lobster *Palinurus delagoae* off South Africa and Mozambique. *Afr. J. Mar. Sci.* **24**, 395–400 (2002).
40. K. H. Mohamed, M. J. George, Results of the tagging experiments on the Indian Spiny lobster, *Panulirus homarus* (Linnaeus) — Movement and growth. *Indian J. Fish.* **15**, 15–26 (1968).
41. H. Kee Cha, J. Hwa Choi, C. Woong Oh, Reproductive Biology and Growth of the Shiba Shrimp, *Metapenaeus Joyneri* (Decapoda: Penaeidae), on the Western Coast of Korea. *J. Crustacean Biol.* **24**, 93–100 (2004).
42. E. Moland, E. M. Olsen, K. Andvord, J. A. Knutsen, N. Chr. Stenseth, Home range of European lobster (*Homarus gammarus*) in a marine reserve: implications for future reserve design. *Can. J. Fish. Aquat. Sci.* **68**, 1197–1210 (2011).
43. B. S. Sant’Anna, A. Turra, F. J. Zara, Reproductive migration and population dynamics of the blue crab *Callinectes danae* in an estuary in southeastern Brazil. *Mar. Biol. Res.* **8**, 354–362 (2012).
44. M. A. Potter, W. D. Sumpton, G. S. Smith, Movement, fishery sector impact, and factors affecting the recapture rate of tagged sand crabs, *Portunus pelagicus* (L.), in Moreton Bay, Queensland. *Mar. Freshwater Res.* **42**, 751–760 (1991).
45. Y. Liu, *et al.*, Genetic differentiation between populations of swimming crab *Portunus trituberculatus* along the coastal waters of the East China Sea. *Hydrobiologia* **618**, 125–137 (2009).
46. S. J. Hyland, B. J. Hill, C. P. Lee, Movement within and between different habitats by the portunid crab *Scylla serrata*. *Mar. Biol.* **80**, 57–61 (1984).
47. O. Le Pape, *et al.*, Habitat suitability for juvenile common sole (*Solea solea*, L.) in the Bay of Biscay (France): A quantitative description using indicators based on epibenthic fauna. *J. Sea Res.* **57**, 126–136 (2007).
48. A. Arkhipkin, Age, growth, stock structure and migratory rate of pre-spawning short-finned squid *Illex argentinus* based on statolith ageing investigations. *Fish. Res.* **16**, 313–338 (1993).
49. W. F. Gilly, *et al.*, Vertical and horizontal migrations by the jumbo squid *Dosidicus gigas* revealed by electronic tagging. *Mar. Ecol. Prog. Ser.* **324**, 1–17 (2006).
50. Q. Wang, Z. Zhuang, J. Deng, Y. Ye, Stock enhancement and translocation of the shrimp *Penaeus chinensis* in China. *Fish. Res.* **80**, 67–79 (2006).

51. K. M. Bailey, E. S. Brown, J. T. Duffy-Anderson, Aspects of distribution, transport and recruitment of Alaska plaice (*Pleuronectes quadrituberculatus*) in the Gulf of Alaska and eastern Bering Sea: comparison of marginal and central populations. *J. Sea Res.* **50**, 87–95 (2003).
52. O. C. Woehler, F. Sanchez, Feeding ecology of castaneta (*Cheilodactylus bergi*; Pisces: Cheilodactylidae) in the south-western Atlantic (34-47 degree S). *Mar. Freshwater Res.* **45**, 507–520 (1994).
53. B. Fry, P. L. Mumford, M. B. Robblee, Stable isotope studies of pink shrimp (*Farfantepenaeus duorarum* Burkenroad) migrations on the southwestern Florida shelf (1999) (April 17, 2020).
54. S. Gregory, J. Brown, M. Belchier, Ecology and distribution of the grey notothen, *Lepidonotothen squamifrons*, around South Georgia and Shag Rocks, Southern Ocean. *Antarct. Sci.* **26**, 239–249 (2014).