

Complete reference list for the meta-analysis in Chapter 2

- Adams, T. P., Aleynik, D., Burrows, M. T. (2014) Larval dispersal of intertidal organisms and the influence of coastline geography. *Ecography*. 37(7), 698–710.
- Aiken, C. M., Navarrete, S. A., Pelegrí, J. L. (2011) Potential changes in larval dispersal and alongshore connectivity on the central Chilean coast due to an altered wind climate. *Journal of Geophysical Research*. 116(G04026).
- Andreollo, M., Mouillot, D., Beuvier, J., Albouy, C., Thuiller, W., Manel, S. (2013) Low connectivity between mediterranean marine protected areas: A biophysical modeling approach for the dusky grouper *Epinephelus marginatus*. *PLOS ONE*. 8(7), e68564.
- Andreollo, M., Mouillot, D., Somot, S., Thuiller, W., Manel, S. (2014) Additive effects of climate change on connectivity between marine protected areas and larval supply to fished areas. *Diversity and Distributions*. 21(2), 139–150.
- Ayata, S.-D., Lazure, P., Thiébaud, E. (2010) How does the connectivity between populations mediate range limits of marine invertebrates? A case study of larval dispersal between the Bay of Biscay and the English Channel (North-East Atlantic). *Progress in Oceanography*. 87(1-4), 18–36.
- Basterretxea, G., Jordi, A., Catalan, I. A., Sabatés, A. (2012) Model-based assessment of local-scale fish larval connectivity in a network of marine protected areas. *Fisheries Oceanography*. 21(4), 291–306.
- Bendtsen, J., Hansen, J. L. S. (2013) A model of life cycle, connectivity and population stability of benthic macro-invertebrates in the North Sea/Baltic Sea transition zone. *Ecological Modelling*. 267, 54–65.
- Berglund, M., Nilsson Jacobi, M., Jonsson, P. R. (2012) Optimal selection of marine protected areas based on connectivity and habitat quality. *Ecological Modelling*. 240, 105–112.
- Berline, L., Zakardjian, B., Molcard, A., Ourmières, Y., Guihou, K. (2013) Modeling jellyfish *Pelagia noctiluca* transport and stranding in the Ligurian Sea. *Marine Pollution Bulletin*. 70(1-2), 90–99.
- Bidegain, G., Bárcena, J. F., García, A., Juanes, J. A. (2013) LARVAHS: Predicting clam larval dispersal and recruitment using habitat suitability-based particle tracking model. *Ecological Modelling*. 268, 78–92.
- Brennan, G., Kregting, L., Beatty, G. E., Cole, C., Elsasser, B., Savidge, G., Provan, J. (2014) Understanding macroalgal dispersal in a complex hydrodynamic environment: A combined population genetic and physical modelling approach. *Journal of The Royal Society Interface*. 11(95), 20140197.
- Breusing, C., Biastoch, A., Drews, A., Metaxas, A., Jollivet, D., Vrijenhoek, R.

- C., Bayer, T., Melzner, F., Sayavedra, L., Petersen, J. M., Dubilier, N., Schilhabel, M. B., Rosenstiel, P., Reusch, T. B. H. (2016) Biophysical and population genetic models predict the presence of ‘phantom’ stepping stones connecting mid-Atlantic ridge vent ecosystems. *Current Biology*. 26(17), 2257–2267.
- Brochier, T., Mason, E., Moyano, M., Berraho, A., Colas, F., Sangrà, P., Hernández-León, S., Ettahiri, O., Lett, C. (2011) Ichthyoplankton transport from the African coast to the Canary Islands. *Journal of Marine Systems*. 87(2), 109–122.
- Brodnik, R. M., Fraker, M. E., Anderson, E. J., Carreon-Martinez, L., DeVanna, K. M., Heath, D. D., Reichert, J. M., Roseman, E. F., Ludsins, S. A. (2015) Larval dispersal underlies demographically important intersystem connectivity in a Great Lakes yellow perch (*Perca flavescens*) population. *Canadian Journal of Fisheries and Aquatic Sciences*. 73(3), 416–426.
- Bryan, D. R., Luo, J., Ault, J. S., McClellan, D. B., Smith, S. G., Snodgrass, D., Larkin, M. F. (2015) Transport and connectivity modeling of larval permit from an observed spawning aggregation in the Dry Tortugas, Florida. *Environmental Biology of Fishes*. 98(11), 2263–2276.
- Butler, M. J. I., Paris, C. B., Goldstein, J. S., Matsuda, H., Cowen, R. K. (2011) Behavior constrains the dispersal of long-lived spiny lobster larvae. *Marine Ecology Progress Series*. 422, 223–237.
- Cetina-Heredia, P., Roughan, M., Seville, E. van, Feng, M., Coleman, M. A. (2015) Strengthened currents override the effect of warming on lobster larval dispersal and survival. *Global Change Biology*. 21(12), 4377–4386.
- Chassé, J., Miller, R. J. (2010) Lobster larval transport in the southern Gulf of St. Lawrence. *Fisheries Oceanography*. 19(5), 319–338.
- Chérubin, L. M., Garavelli, L. (2016) Eastern Caribbean circulation and island mass effect on St. Croix, US Virgin Islands: A mechanism for relatively consistent recruitment patterns. *PLOS ONE*. 11(3), e0150409.
- Chiswell, S. M., Rickard, G. J. (2011) Larval connectivity of harbours via ocean currents a New Zealand study. *Continental Shelf Research*. 31(10), 1057–1074.
- Cooper, D. W., Duffy-Anderson, J. T., Stockhausen, W. T., Cheng, W. (2013) Modeled connectivity between northern rock sole (*Lepidopsetta polyxystra*) spawning and nursery areas in the eastern Bering Sea. *Journal of Sea Research*. 84(Sp. Iss. SI), 2–12.
- Corell, H., Moksnes, P.-O., Engqvist, A., Döös, K., Jonsson, P. R. (2012) Depth distribution of larvae critically affects their dispersal and the efficiency of marine protected areas. *Marine Ecology Progress Series*. 467, 29–46.
- Coscia, I., Robins, P. E., Porter, J. S., Malham, S. K., Ironside, J. E. (2012) Modelled larval dispersal and measured gene flow: Seascape genetics of the

- common cockle *Cerastoderma edule* in the southern Irish Sea. *Conservation Genetics*. 14(2), 451–466.
- Crandall, E. D., Treml, E. A., Barber, P. H. (2012) Coalescent and biophysical models of stepping-stone gene flow in neritid snails. *Molecular Ecology*. 21, 5579–5598.
- Criales, M. M., Cherubin, L. M., Browder, J. A. (2015) Modeling larval transport and settlement of Pink Shrimp in south Florida: Dynamics of behavior and tides. *Marine and Coastal Fisheries*. 7(1), 148–176.
- Crochelet, E., Chabanet, P., Pothin, K., Lagabriele, E., Roberts, J. J., Pennober, G., Lecomte-Finiger, R., Petit, M. (2013) Validation of a fish larvae dispersal model with otolith data in the Western Indian Ocean and implications for marine spatial planning in data-poor regions. *Ocean and Coastal Management*. 86(C), 13–21.
- Crochelet, E., Roberts, J., Lagabriele, E., Obura, D., Petit, M., Chabanet, P. (2016) A model-based assessment of reef larvae dispersal in the Western Indian Ocean reveals regional connectivity patterns — potential implications for conservation policies. *Regional Studies in Marine Science*. 7, 159–167.
- Cuif, M., Kaplan, D. M., Lefèvre, J., Faure, V. M., Caillaud, M., Verley, P., Vigliola, L., Lett, C. (2014) Wind-induced variability in larval retention in a coral reef system: A biophysical modelling study in the South-West Lagoon of New Caledonia. *Progress in Oceanography*. 122, 105–115.
- Daigle, R. M., Chassé, J., Metaxas, A. (2016) The relative effect of behaviour in larval dispersal in a low energy embayment. *Progress in Oceanography*. 144, 93–117.
- Davies, K. T. A., Gentleman, W. C., DiBacco, C., Johnson, C. L. (2014) Semi-annual spawning in marine scallops strengthens larval recruitment and connectivity on Georges Bank: A model study. *Marine Ecology Progress Series*. 516, 209–227.
- Davies, S. W., Treml, E. A., Kenkel, C. D., Matz, M. V. (2014) Exploring the role of Micronesian islands in the maintenance of coral genetic diversity in the Pacific Ocean. *Molecular Ecology*. 24(1), 70–82.
- DeCelles, G., Cowles, G., Liu, C., Cadrin, S. (2015) Modeled transport of winter flounder larvae spawned in coastal waters of the Gulf of Maine. *Fisheries Oceanography*. 24(5), 430–444.
- DeMartini, E. E., Wren, J. L. K., Kobayashi, D. R. (2013) Persistent spatial patterns of recruitment in a guild of Hawaiian coral reef fishes. *Marine Ecology Progress Series*. 485, 165–179.
- Dias, D. F., Pezzi, L. P., Gherardi, D. F. M., Camargo, R. (2014) Modeling the spawning strategies and larval survival of the Brazilian sardine (*Sardinella*

brasiliensis). *Progress in Oceanography*. 123, 38–53.

Domingues, C. P., Nolasco, R., Dubert, J., Queiroga, H. (2012) Model-derived dispersal pathways from multiple source populations explain variability of invertebrate larval supply. *PLOS ONE*. 7(4), e35794.

Donahue, M. J., Karnauskas, M., Toews, C., Paris, C. B. (2015) Location isn't everything: Timing of spawning aggregations optimizes larval replenishment. *PLOS ONE*. 10(6), 1–14.

Dorman, J. G., Castruccio, F. S., Curchitser, E. N., Kleypas, J. A., Powell, T. M. (2016) Modeled connectivity of *Acropora millepora* populations from reefs of the Spratly Islands and the greater South China Sea. *Coral Reefs*. 35(1), 169–179.

Drake, P. T., Edwards, C. A., Barth, J. A. (2011) Dispersion and connectivity estimates along the U.S. west coast from a realistic numerical model. *Journal of Marine Research*. 69(1), 1–37.

Drake, P. T., Edwards, C. A., Morgan, S. G. (2015) Relationship between larval settlement, alongshore wind stress and surface temperature in a numerical model of the central California coastal circulation. *Marine Ecology Progress Series*. 537, 71–87.

Drake, P. T., Edwards, C. A., Morgan, S. G., Dever, E. P. (2013) Influence of larval behavior on transport and population connectivity in a realistic simulation of the California Current System. *Journal of Marine Research*. 71(4), 317–350.

Ewers-Saucedo, C., Pringle, J. M., Sepúlveda, H. H., Byers, J. E., Navarrete, S. A., Wares, J. P. (2016) The oceanic concordance of phylogeography and biogeography: A case study in *Notochthamalus*. *Ecology and Evolution*. 6(13), 4403–4420.

Feng, M., Caputi, N., Penn, J., Slawinski, D., Lestang, S. de, Weller, E., Pearce, A. F. (2011) Ocean circulation, Stokes drift, and connectivity of western rock lobster (*Panulirus cygnus*) population. *Canadian Journal of Fisheries and Aquatic Sciences*. 68(7), 1182–1196.

Feng, M., Colberg, F., Slawinski, D., Berry, O., Babcock, R. (2016) Ocean circulation drives heterogeneous recruitments and connectivity among coral populations on the North West Shelf of Australia. *Journal of Marine Systems*. 164, 1–12.

Feutry, P., Vergnes, A., Broderick, D., Lambourdière, J., Keith, P., Ovenden, J. R. (2013) Stretched to the limit; can a short pelagic larval duration connect adult populations of an Indo-Pacific diadromous fish (*Kuhlia rupestris*)? *Molecular Ecology*. 22(6), 1518–1530.

Foster, N. L., Paris, C. B., Kool, J. T., Baums, I. B., Stevens, J. R., Sanchez, J. A., Bastidas, C., Agudelo, C., Bush, P., Day, O., Ferrari, R., Gonzalez, P., Gore, S., Guppy, R., McCartney, M. A., McCoy, C., Mendes, J., Srinivasan, A., Steiner, S., Vermeij, M. J. A. *et al.* (2012) Connectivity of Caribbean coral

- populations: Complementary insights from empirical and modelled gene flow. *Molecular Ecology*. 21(5), 1143–1157.
- Garavelli, L., Grüss, A., Grote, B., Chang, N., Smith, M., Verley, P., Stenevik, E. K., Kaplan, D. M., Lett, C. (2012) Modeling the dispersal of Cape hake ichthyoplankton. *Journal of Plankton Research*. 34(8), 655–669.
- Garavelli, L., Kaplan, D. M., Colas, F., Stotz, W., Yannicelli, B., Lett, C. (2014) Identifying appropriate spatial scales for marine conservation and management using a larval dispersal model: The case of *Concholepas concholepas* (loco) in Chile. *Progress in Oceanography*. 124, 42–53.
- García-García, L. M., Ruiz-Villarreal, M., Bernal, M. (2016) A biophysical model for simulating early life stages of sardine in the Iberian Atlantic stock. *Fisheries Research*. 173, 250–272.
- Ghezzi, M., De Pascalis, F., Umgiesser, G., Zemlys, P., Sigovini, M., Marcos, C., Pérez-Ruzafa, A. (2015) Connectivity in three European coastal lagoons. *Estuaries and Coasts*. 38(5), 1764–1781.
- Golbuu, Y., Wolanski, E., Idechong, J. W., Victor, S., Isechal, A. L., Oldia, N. W., Idip, D., Richmond, R. H., Woesik, R. van (2012) Predicting coral recruitment in Palau’s complex reef archipelago. *PLOS ONE*. 7(11), e50998.
- Gormley, K., Mackenzie, C., Robins, P., Coscia, I., Cassidy, A., James, J., Hull, A., Pierny, S., Sanderson, W., Porter, J. (2015) Connectivity and dispersal patterns of protected biogenic reefs: Implications for the conservation of *Modiolus modiolus* (L.) in the Irish Sea. *PLOS ONE*. 10(12), e0143337.
- Haase, A. T., Eggleston, D. B., Luettich, R. A., Weaver, R. J., Puckett, B. J. (2012) Estuarine circulation and predicted oyster larval dispersal among a network of reserves. *Estuarine, Coastal and Shelf Science*. 101, 33–43.
- Herbert, R. J. H., Willis, J., Jones, E., Ross, K., Hübner, R., Humphreys, J., Jensen, A., Baugh, J. (2011) Invasion in tidal zones on complex coastlines: Modelling larvae of the non-native Manila clam, *Ruditapes philippinarum*, in the UK. *Journal of Biogeography*. 39(3), 585–599.
- Hock, K., Wolff, N. H., Condie, S. A., Anthony, K. R. N., Mumby, P. J. (2014) Connectivity networks reveal the risks of crown-of-thorns starfish outbreaks on the Great Barrier Reef. *Journal of Applied Ecology*. 51(5), 1188–1196.
- Holstein, D. M., Paris, C. B., Mumby, P. J. (2014) Consistency and inconsistency in multispecies population network dynamics of coral reef ecosystems. *Marine Ecology Progress Series*. 499, 1–18.
- Holstein, D. M., Paris, C. B., Vaz, A. C., Smith, T. B. (2016) Modeling vertical coral connectivity and mesophotic refugia. *Coral Reefs*. 35(1), 23–37.
- Hubbard, A. B., Reidenbach, M. A. (2015) Effects of larval swimming behavior on the dispersal and settlement of the eastern oyster *Crassostrea virginica*. *Marine*

Ecology Progress Series. 535, 161–176.

Hufnagl, M., Temming, A., Pohlmann, T. (2014) The missing link: Tidal-influenced activity a likely candidate to close the migration triangle in brown shrimp *Crangon crangon* (Crustacea, Decapoda). *Fisheries Oceanography.* 23(3), 242–257.

Incze, L., Huijie Xue, Wolff, N., Danya Xu, Wilson, C., Steneck, R., Wahle, R., Lawton, P., Pettigrew, N., Yong Chen (2010) Connectivity of lobster (*Homarus americanus*) populations in the coastal Gulf of Maine: Part II. Coupled biophysical dynamics. *Fisheries Oceanography.* 19(1), 1–20.

Jones, B. T., Gyory, J., Grey, E. K., Bartlein, M., Ko, D. S., Nero, R. W., Taylor, C. M. (2015) Transport of blue crab larvae in the northern Gulf of Mexico during the Deepwater Horizon oil spill. *Marine Ecology Progress Series.* 527, 143–156.

Jonsson, P. R., Nilsson Jacobi, M., Moksnes, P.-O. (2016) How to select networks of marine protected areas for multiple species with different dispersal strategies. *Diversity and Distributions.* 22(2), 161–173.

Jönsson, B. F., Watson, J. R. (2016) The timescales of global surface-ocean connectivity. *Nature Communications.* 7, 11239.

Kendall, M. S., Poti, M., Karnauskas, K. B. (2016) Climate change and larval transport in the ocean: Fractional effects from physical and physiological factors. *Global Change Biology.* 22(4), 1532–1547.

Kendall, M. S., Poti, M., Wynne, T. T., Kinlan, B. P., Bauer, L. B. (2013) Consequences of the life history traits of pelagic larvae on interisland connectivity during a changing climate. *Marine Ecology Progress Series.* 489, 43–59.

Kim, C.-K., Park, K., Powers, S. P. (2012) Establishing restoration strategy of Eastern Oyster via a coupled biophysical transport model. *Restoration Ecology.* 21(3), 353–362.

Klein, M., Teixeira, S., Assis, J., Serrão, E. A., Gonçalves, E. J., Borges, R. (2016) High interannual variability in connectivity and genetic pool of a temperate clingfish matches oceanographic transport predictions. *PLOS ONE.* 11(12), e0165881.

Kleypas, J. A., Thompson, D. M., Castruccio, F. S., Curchitser, E. N., Pinsky, M., Watson, J. R. (2016) Larval connectivity across temperature gradients and its potential effect on heat tolerance in coral populations. *Global Change Biology.* 22(11), 3539–3549.

Koeck, B., G rigny, O., Durieux, E. D. H., Coudray, S., Garsi, L.-H., Bisgambiglia, P.-A., Galgani, F., Agostini, S. (2015) Connectivity patterns of coastal fishes following different dispersal scenarios across a transboundary marine protected area (Bonifacio Strait, NW Mediterranean). *Estuarine, Coastal and Shelf Science.* 154, 234–247.

Kon  , V., Lett, C., Fr  on, P. (2013) Modelling the effect of food availability on

- recruitment success of Cape anchovy ichthyoplankton in the southern Benguela upwelling system. *African Journal of Marine Science*. 35(2), 151–161.
- Kool, J. T., Huang, Z., Nichol, S. L. (2015) Simulated larval connectivity among Australia’s southwest submarine canyons. *Marine Ecology Progress Series*. 539, 77–91.
- Kool, J. T., Paris, C. B., Barber, P. H., Cowen, R. K. (2011) Connectivity and the development of population genetic structure in Indo-West Pacific coral reef communities. *Global Ecology and Biogeography*. 20(5), 695–706.
- Kough, A. S., Paris, C. B. (2015) The influence of spawning periodicity on population connectivity. *Coral Reefs*. 34(3), 753–757.
- Kough, A. S., Paris, C. B., Butler, M. J. (2013) Larval connectivity and the international management of fisheries. *PLOS ONE*. 8(6), e64970.
- La Mesa, M., Piñones, A., Catalano, B., Ashford, J. (2015) Predicting early life connectivity of Antarctic silverfish, an important forage species along the Antarctic Peninsula. *Fisheries Oceanography*. 24(2), 150–161.
- Lacroix, G., Maes, G. E., Bolle, L. J., Volckaert, F. A. M. (2013) Modelling dispersal dynamics of the early life stages of a marine flatfish (*Solea solea* L.). *Journal of Sea Research*. 84(C), 13–25.
- Lal, M. M., Southgate, P. C., Jerry, D. R., Bosserelle, C., Zenger, K. R. (2016) A parallel population genomic and hydrodynamic approach to fishery management of highly-dispersive marine invertebrates: The case of the Fijian black-lip pearl oyster *Pinctada margaritifera*. *PLOS ONE*. 11(8), e0161390.
- Liu, C., Cowles, G. W., Churchill, J. H., Stokesbury, K. D. E. (2015) Connectivity of the bay scallop (*Argopecten irradians*) in Buzzards Bay, Massachusetts, U.S.A. *Fisheries Oceanography*. 24(4), 364–382.
- Marinone, S. G. (2012) Seasonal surface connectivity in the Gulf of California. *Estuarine, Coastal and Shelf Science*. 100, 133–141.
- Milton, D. A., Satria, F., Proctor, C. H., Prasetyo, A. P., Utama, A. A., Fauzi, M. (2014) Environmental factors influencing the recruitment and catch of tropical Panulirus lobsters in southern Java, Indonesia. *Continental Shelf Research*. 91, 247–255.
- Miyake, Y., Kimura, S., Kawamura, T., Kitagawa, T., Takahashi, T., Takami, H. (2011) Population connectivity of Ezo abalone on the northern Pacific coast of Japan in relation to the establishment of harvest refugia. *Marine Ecology Progress Series*. 440, 137–150.
- Moksnes, P.-O., Corell, H., Tryman, K., Hordoir, R., Jonsson, P. R. (2014) Larval behavior and dispersal mechanisms in shore crab larvae (*Carcinus maenas*): Local adaptations to different tidal environments? *Limnology and Oceanography*. 59(2),

588–602.

Mora, C., Treml, E. A., Roberts, J. J., Crosby, K., Roy, D., Tittensor, D. P. (2012) High connectivity among habitats precludes the relationship between dispersal and range size in tropical reef fishes. *Ecography*. 35(1), 89–96.

Moritz, C., Meynard, C. N., Devictor, V., Guizien, K., Labrune, C., Guarini, J.-M., Mouquet, N. (2013) Disentangling the role of connectivity, environmental filtering, and spatial structure on metacommunity dynamics. *Oikos*. 122(10), 1401–1410.

Munguia-Vega, A., Jackson, A., Marinone, S. G., Erisman, B., Moreno-Báez, M., Girón-Nava, A., Pfister, T., Aburto-Oropeza, O., Torre, J. (2014) Asymmetric connectivity of spawning aggregations of a commercially important marine fish using a multidisciplinary approach. *PeerJ*. 2, e511.

Neo, M. L., Erftemeijer, P. L. A., Beek, J. K. L. van, Maren, D. S. van, Teo, S. L.-M., Todd, P. A. (2013) Recruitment constraints in Singapore’s fluted giant clam (*Tridacna squamosa*) population—A dispersal model approach. *PLOS ONE*. 8(3), e58819.

Nickols, K. J., White, J. W., Largier, J. L., Gaylord, B. (2015) Marine population connectivity: Reconciling large-scale dispersal and high self-retention. *The American Naturalist*. 185(2), 196–211.

Nicolle, A., Dumas, F., Foveau, A., Foucher, E., Thiébaud, E. (2013) Modelling larval dispersal of the king scallop (*Pecten maximus*) in the English Channel: Examples from the bay of Saint-Brieuc and the bay of Seine. *Ocean Dynamics*. 63(6), 661–678.

Nilsson Jacobi, M., André, C., Döös, K., Jonsson, P. R. (2012) Identification of subpopulations from connectivity matrices. *Ecography*. 35(11), 1004–1016.

Nolasco, R., Dubert, J., Domingues, C. P., Cordeiro Pires, A., Queiroga, H. (2013) Model-derived connectivity patterns along the western Iberian Peninsula: Asymmetrical larval flow and source-sink cell. *Marine Ecology Progress Series*. 485, 123–142.

Ospina-Alvarez, A., Bernal, M., Catalán, I. A., Roos, D., Bigot, J.-L., Palomera, I. (2013) Modeling fish egg production and spatial distribution from acoustic data: A step forward into the analysis of recruitment. *PLOS ONE*. 8(9), e73687.

Ospina-Alvarez, A., Catalan, I. A., Bernal, M., Roos, D., Palomera, I. (2015) From egg production to recruits: Connectivity and inter-annual variability in the recruitment patterns of European anchovy in the northwestern Mediterranean. *Progress in Oceanography*. 138, 431–447.

Ospina-Alvarez, A., Parada, C., Palomera, I. (2012) Vertical migration effects on the dispersion and recruitment of European anchovy larvae: From spawning to nursery areas. *Ecological Modelling*. 231, 65–79.

O’Sullivan, D., Lordan, C., Doyle, J., Berry, A., Lyons, K. (2015) Metapopulation

- connectivity via larval transport of the Norway lobster *Nephrops norvegicus* in waters around Ireland: A modelled approach. *Marine Ecology Progress Series*. 534, 95–106.
- Pearce, A. F., Slawinski, D., Feng, M., Hutchins, B., Fearn, P. (2011) Modelling the potential transport of tropical fish larvae in the Leeuwin current. *Continental Shelf Research*. 31(19), 2018–2040.
- Peguero-Icaza, M., Sanchez-Velasco, L., Lavín, M. F., Marinone, S. G., Beier, E. (2011) Seasonal changes in connectivity routes among larval fish assemblages in a semi-enclosed sea (Gulf of California). *Journal of Plankton Research*. 33(3), 517–533.
- Petrik, C. M., Duffy-Anderson, J. T., Castruccio, F., Curchitser, E. N., Danielson, S. L., Hedstrom, K., Mueter, F. (2016) Modelled connectivity between Walleye Pollock (*Gadus chalcogrammus*) spawning and age-0 nursery areas in warm and cold years with implications for juvenile survival. *ICES Journal of Marine Science*. 73(7), 1890–1900.
- Puckett, B. J., Eggleston, D. B., Kerr, P. C., Luettich, R. A. (2014) Larval dispersal and population connectivity among a network of marine reserves. *Fisheries Oceanography*. 23(4), 342–361.
- Pujolar, J. M., Schiavina, M., Di Franco, A., Melià, P., Guidetti, P., Gatto, M., De Leo, G. A., Zane, L. (2013) Understanding the effectiveness of marine protected areas using genetic connectivity patterns and Lagrangian simulations. *Diversity and Distributions*. 19(12), 1531–1542.
- Reid, K., Crochelet, E., Bloomer, P., Hoareau, T. B. (2016) Investigating the origin of vagrant dusky groupers, *Epinephelus marginatus* (Lowe, 1834), in coastal waters of Réunion Island. *Molecular Phylogenetics and Evolution*. 103, 98–103.
- Richar, J. I., Kruse, G. H., Curchitser, E. N., Hermann, A. J. (2015) Patterns in connectivity and retention of simulated Tanner Crab (*Chionoecetes bairdi*) larvae in the eastern Bering Sea. *Progress in Oceanography*. 138, 475–485.
- Rivera, A., Weidberg, N., Pardinas, A. F., Gonzalez-Gil, R., Garcia-Florez, L., Acuna, J. L. (2013) Role of upwelling on larval dispersal and productivity of gooseneck barnacle populations in the Cantabrian Sea: Management implications. *PLOS ONE*. 8(11), e78482.
- Robins, P. E., Neill, S. P., Giménez, L., Jenkins, S. R., Malham, S. K. (2013) Physical and biological controls on larval dispersal and connectivity in a highly energetic shelf sea. *Limnology and Oceanography*. 58(2), 505–524.
- Rochette, S., Huret, M., Rivot, E., Le Pape, O. (2012) Coupling hydrodynamic and individual-based models to simulate long-term larval supply to coastal nursery areas. *Fisheries Oceanography*. 21(4), 229–242.
- Roughan, M., Macdonald, H. S., Baird, M. E., Glasby, T. M. (2011) Modelling

- coastal connectivity in a Western Boundary Current: Seasonal and inter-annual variability. *Deep Sea Research Part II: Topical Studies in Oceanography*. 58(5), 628–644.
- Sanvicente-Añorve, L., Zavala-Hidalgo, J., Allende-Arandía, M. E., Hermoso-Salazar, M. (2014) Connectivity patterns among coral reef systems in the southern Gulf of Mexico. *Marine Ecology Progress Series*. 498, 27–41.
- Schiavina, M., Marino, I. a. M., Zane, L., Melià, P. (2014) Matching oceanography and genetics at the basin scale. Seascape connectivity of the Mediterranean shore crab in the Adriatic Sea. *Molecular Ecology*. 23(22), 5496–5507.
- Schill, S. R., Raber, G. T., Roberts, J. J., Treml, E. A., Brenner, J., Halpin, P. N. (2015) No reef is an island: Integrating coral reef connectivity data into the design of regional-scale marine protected area networks. *PLOS ONE*. 10(12), e0144199.
- Shackell, N. L., Brickman, D. W., Frank, K. T. (2013) Reserve site selection for data-poor invertebrate fisheries using patch scale and dispersal dynamics: A case study of sea cucumber (*Cucumaria frondosa*). *Aquatic Conservation: Marine and Freshwater Ecosystems*. 23, 723–731.
- Simpson, S. D., Harrison, H. B., Claereboudt, M. R., Planes, S. (2014) Long-distance dispersal via ocean currents connects Omani clownfish populations throughout entire species range. *PLOS ONE*. 9(9), e107610.
- Snyder, R. E., Paris, C. B., Vaz, A. C. (2015) How much do marine connectivity fluctuations matter? *The American Naturalist*. 184(4), 523–530.
- Soria, G., Munguía-Vega, A., Marinone, S. G., Moreno-Báez, M., Martínez-Tovar, I., Cudney-Bueno, R. (2012) Linking bio-oceanography and population genetics to assess larval connectivity. *Marine Ecology Progress Series*. 463, 159–175.
- Soria, G., Torre-Cosio, J., Munguia-Vega, A., Marinone, S. G., Lavín, M. F., Cinti, A., Moreno-Báez, M. (2014) Dynamic connectivity patterns from an insular marine protected area in the Gulf of California. *Journal of Marine Systems*. 129, 248–258.
- Sponaugle, S., Paris, C., Walter, K. D., Kourafalou, V., D’Alessandro, E. (2012) Observed and modeled larval settlement of a reef fish to the Florida Keys. *Marine Ecology Progress Series*. 453, 201–212.
- Staaterman, E., Paris, C. B., Helgers, J. (2012) Orientation behavior in fish larvae: A missing piece to Hjort’s critical period hypothesis. *Journal of Theoretical Biology*. 304, 188–196.
- Sunday, J. M., Popovic, I., Palen, W. J., Foreman, M. G. G., Hart, M. W. (2014) Ocean circulation model predicts high genetic structure observed in a long-lived pelagic developer. *Molecular Ecology*. 23(20), 5036–5047.
- Sundelöf, A., Jonsson, P. R. (2012) Larval dispersal and vertical migration behaviour – a simulation study for short dispersal times. *Marine Ecology*. 33(2),

183–193.

Tay, Y. C., Todd, P. A., Rosshaug, P. S., Chou, L. M. (2012) Simulating the transport of broadcast coral larvae among the Southern Islands of Singapore. *Aquatic Biology*. 15(3), 283–297.

Teske, P. R., Sandoval-Castillo, J., Sebille, E. van, Waters, J., Beheregaray, L. B. (2016) Oceanography promotes self-recruitment in a planktonic larval disperser. *Scientific Reports*. 6, 34205.

Thomas, C. J., Bridge, T. C. L., Figueiredo, J., Deleersnijder, E., Hanert, E. (2015) Connectivity between submerged and near-sea-surface coral reefs: Can submerged reef populations act as refuges? *Diversity and Distributions*. 21(10), 1254–1266.

Thomas, Y., Dumas, F., Andréfouët, S. (2016) Larval connectivity of pearl oyster through biophysical modelling; evidence of food limitation and broodstock effect. *Estuarine, Coastal and Shelf Science*. 182, 283–293.

Treml, E. A., Roberts, J. J., Chao, Y., Halpin, P. N., Possingham, H. P., Riginos, C. (2012) Reproductive output and duration of the pelagic larval stage determine seascape-wide connectivity of marine populations. *Integrative and Comparative Biology*. 52(4), 525–537.

Treml, E. A., Roberts, J., Halpin, P. N., Possingham, H. P., Riginos, C. (2015) The emergent geography of biophysical dispersal barriers across the Indo-West Pacific. *Diversity and Distributions*. 21(4), 465–476.

Watson, J. R., Kendall, B. E., Siegel, D. A., Mitarai, S. (2012) Changing seascapes, stochastic connectivity, and marine metapopulation dynamics. *The American Naturalist*. 180(1), 99–112.

Watson, J. R., Mitarai, S., Siegel, D. A., Caselle, J. E., Dong, C., McWilliams, J. C. (2010) Realized and potential larval connectivity in the Southern California Bight. *Marine Ecology Progress Series*. 401, 31–48.

Wolanski, E., Kingsford, M. J. (2014) Oceanographic and behavioural assumptions in models of the fate of coral and coral reef fish larvae. *Journal of The Royal Society Interface*. 11(98), 20140209.

Wood, S., Baums, I. B., Paris, C. B., Ridgwell, A., Kessler, W. S., Hendy, E. J. (2016) El Niño and coral larval dispersal across the eastern Pacific marine barrier. *Nature Communications*. 7, 12571.

Wood, S., Paris, C. B., Ridgwell, A., Hendy, E. J. (2013) Modelling dispersal and connectivity of broadcast spawning corals at the global scale. *Global Ecology and Biogeography*. 23(1), 1–11.

Wren, J. L. K., Kobayashi, D. R. (2016) Exploration of the ‘larval pool’: Development and ground-truthing of a larval transport model off leeward Hawaii.

PeerJ. 4, e1636.

Young, E. F., Rock, J., Meredith, M. P., Belchier, M., Murphy, E. J., Carvalho, G. R. (2012) Physical and behavioural influences on larval fish retention: Contrasting patterns in two Antarctic fishes. *Marine Ecology Progress Series.* 465, 201–215.

Zhang, X., Haidvogel, D., Munroe, D., Powell, E. N., Klinck, J., Mann, R., Castruccio, F. S. (2015) Modeling larval connectivity of the Atlantic surfclams within the Middle Atlantic Bight: Model development, larval dispersal and metapopulation connectivity. *Estuarine, Coastal and Shelf Science.* 153(C), 38–53.