

PUBLICATIONS (Peer-reviewed): H-index: 53 *students supervised are underlined*

130. Gonzalez, S., Nielsen, J.M., Eisner, L.B., **Hopcroft, R.R.**, Hart, M., Kimmel, D.G., Logerwell, E., Lomas, M.W., Schnetzer, A., Spear, A. & Thorso, J.T. (2025) Planktonic associations in the Northern Bering and Chukchi seas during the 2017-2019 warm period. *J. Plankton Res.* **47**, fbaf034
129. Ferriss, B.E., Hunsicker, M.E., Ward, E.J., Litzow, M.A., Rogers, L., Callahan, M., Cheng, W., Danielson, S.L., Drummond, B., Fergusson, E., Gabriele, C., Hebert, K., **Hopcroft, R.R.**, Nielsen, J., Spalinger, K., Stockhausen, W.T., Strasburger, W.W. & Whelan, S. (2025) Identifying common trends and ecosystem states to inform Gulf of Alaska ecosystem-based fisheries management. *PLoS ONE*, **20**, e0324154.
128. Ali, A.M., Nawareg, M.M., Elgetany, A.H., Bahnasawy, M.H., **Hopcroft, R.R.** & El-Tohamy, W.S. (2025) The seasonal evaluation of heavy metals in sardines from the Mediterranean coast of Damietta, Egypt. *Mar. Poll. Bull.*, **217**, 117972.
127. Questel, J.M., Smoot, C.A., Collins, A.G., Lindsay, D.J. & **Hopcroft, R.R.** (2025) DNA barcoding deep-water zooplankton from the Gulf of Alaska, North Pacific Ocean. *Frontiers in Marine Science*, **12**, 1515048.
126. Bérengère, H., Bluhm, B.A., Cyr, F., Danielson, S.L., Eriksen, E., Fossheim, M., Geoffroy, M., **Hopcroft, R.R.**, Ingvaldsen, R.B., Jørgensen, L.L., Lovejoy, C., Meire, L., Mueter, F., Primicerio, R. & Winding, M.H.S. (2024) Borealization impacts shelf ecosystems across the Arctic. *Front. Mar. Sci.* **12**: 1481420
125. Hirche, H.-J., Ershova, E., Kosobokova, K.N. & **Hopcroft, R.R.** (2024) From fringe to basin: Unraveling the survival strategies of *Calanus hyperboreus* and *C. glacialis* in the Arctic Ocean. *Mar. Ecol. Prog. Ser.* **745**: 41–57.
124. El-Tohamy, W.S. and **Hopcroft, R.R.** (2024) Planktonic ciliate communities along an environmental gradient in the Nile Delta (Damietta region, Egypt). *Sci. Rep.*, **14**, 19950.
123. El-Tohamy, W.S., Taher, M.E., Ghoneim, A.M. and **Hopcroft, R.R.** (2024) Protozoan communities serve as a strong indicator of water quality in the Nile River. *Sci. Rep.*, **14**, 16382.
122. Jaspers, C., **Hopcroft, R.R.**, Kiorboe, T., Lombard, F., Lopez-Urrutia, A., Everett, J.D. & Richardson, A. J. (2023) Gelatinous larvacean zooplankton can enhance trophic transfer and carbon sequestration. *Trends Ecol. Evol.* **38**: 980-993
121. Cotea Islas, H.M. & **Hopcroft, R.R.** 2023. Abundance, composition and distribution of predatory gelatinous zooplankton in the Northern Gulf of Alaska. *J. Plankton Res.*, **45**, 693-708.
120. Monell, K.J., Roncalli, V., **Hopcroft, R.R.**, Hartline, D.K. & Lenz, P.H. 2023. Post-Diapause DNA Replication during Oogenesis in a Capital-Breeding Copepod. *Integrative Org. Biol.* **5**: obad020.
119. Cushing, D.A., Kuletz, K.J., Sousa, L., Day, R.H., Danielson, S.L., Labunski, E.A., **Hopcroft, R.R.** 2023. Differential response of seabird species to warm- and cold-water events in a heterogeneous cross-shelf environment in the Gulf of Alaska. *Mar. Ecol. Prog. Ser.* **737**:31-58.
118. Montenegro, J., Collins, A.G., **Hopcroft, R.R.**, Questel, J.M., Thuesen, E.V., Bachtel, T.S., Bergman, L.A., Sangekar, M.N., Drazen, J.C. & Lindsay, D.J. 2023. Heterogeneity in diagnostic characters across ecoregions: A case study with *Botrynema* (Hydrozoa: Trachylina: Halicreatidae). *Front. Mar. Sci.*, **9**: e1101699.
117. Ducklow, H.W., Cimino, M., Dunton, K.O., **Hopcroft, R.R.**, Ji, R., Miller, A. and Sosik, H.M. 2022. Marine coastal pelagic ecosystem responses to climate variability and change. *Bioscience*, **72**, 827-850.
116. Niestroy, J., V. Roncalli, M.C. Cieslak, A.M. Castelfranco, **R.R. Hopcroft**, & P.H. Lenz. 2022. Physiological acclimatization in high-latitude zooplankton. *Mol. Biol.* DOI: 10.1111/mec.16354
115. Mueter, F.J., Iken, K., Cooper, L.W., Kuletz, K.J., **Hopcroft, R.R.**, Danielson, S.L., Collins, R.E. & Cushing, D.A. 2021. Changes in diversity and species composition across multiple assemblages in the

- eastern Chukchi Sea during 2 contrasting years are consistent with borealization. *Oceanography* **34**: 34-47.
114. Lawley, J.W., Gamero-Mora, E., Maronna, M.M., Chiaverano, L.M., Stampar, S.N., **Hopcroft, R.R.**, Collins, A.G. & Morandini, A.C. 2021. The importance of molecular characters when morphological variability hinders diagnosability: systematics of the moon jellyfish genus *Aurelia* (Cnidaria: Scyphozoa). *PeerJ*, **9**, e11954.
 113. Deary, A.L., Vestfals, C.D., Mueter, F.J., Logerwell, E.A., Goldstein, E.D., Stabeno, P.J., Danielson, S.L., **Hopcroft, R.R.**, Duffy-Anderson, J.T., 2021. Seasonal abundance, distribution, and growth of the early life stages of Polar cod (*Boreogadus saida*) and Saffron cod (*Eleginus gracilis*) in the US Arctic during a warm year. *Polar Biol.* **42**: 1-22
 112. Lalande, C., J.M. Grebmeier, A.M.P. McDonnell, **R.R. Hopcroft**, S. O'Daly, & S.L. Danielson. 2021. Impact of a warm anomaly in the Pacific Arctic region derived from time-series export fluxes. *PLoS ONE* **16**: e0255837.
 111. Suryan, R. M. and 47 others. 2021. Ecosystem response to a prolonged marine heatwave in the Gulf of Alaska. *Nature Sci. Rep.* **11**: 6235
 110. Arimitsu, M. and 21 others. 2021. Heatwave-induced synchrony within forage fish portfolio disrupts energy flow to top pelagic predators. *Global Change Biol.* **27**:1859-1878.
 109. Bucklin, A. and others. 2021. Toward A Global Reference Database of COI Barcodes for Marine Zooplankton. *Mar. Biol.* **168**: 78.
 108. Taher, M. E.-S., Ghoneim, A.M., **Hopcroft, R.R.**, El Tohamy, W.S. 2021. Temporal and spatial variations of surface water quality in the Nile River of Damietta Region, Egypt. *Environ. Monit. Assess.* **193**: 128.
 107. Kosobokova, K.N. & **R.R. Hopcroft**. 2021. Population structure, vertical distribution, and fecundity of *Eukrohnia hamata* (Chaetognatha) in the Arctic Ocean during summer. *Deep-Sea Res. I.* **169**: 103454
 106. Kimura, F., Y. Abe, K. Matsuno, **R.R. Hopcroft**, & A. Yamaguchi. 2020. Temporal changes of zooplankton community and population structure in the northern Bering Sea from June to September in 2017. *Deep Sea Res. II.* **181-182**: 104901
 105. O'Daly, S.H., S.L. Danielson, S.M. Hardy, **R.R. Hopcroft**, C. LaLande, D.A. Stockwell, A.M.P. McDonnell. 2020. Extraordinary carbon fluxes on the shallow Pacific Arctic shelf during a remarkably warm and low sea ice period. *Frontiers Mar. Sci.* **7**: 986
 104. Questel, J. M., R. R. Hopcroft, H. M. DeHart, C. A. Smoot, K. N. Kosobokova, and A. Bucklin. 2021. Metabarcoding of zooplankton diversity within the Chukchi Borderlands, Arctic Ocean: Improved resolution from multi-gene markers and region-specific DNA databases. *Mar. Biodiv.* **51**:4
 103. Bluhm, B.A., M.A. Janout, S.L. Danielson, I. Ellingsen, M. Gavrilov, J.M. Grebmeier, **R.R. Hopcroft**, K. Iken, R.B. Ingvaldsen, L.L. Jørgensen, K.N. Kosobokova, R. Kwok, I.V. Polyakov, P.E. Renaud, & E.C. Carmack. 2020. The pan-Arctic continental slope: sharp gradients of physical processes affect pelagic and benthic ecosystems. *Frontiers Mar. Sci.* **7**:544386
 102. Litzow, M. A., M. E. Hunsicker, E. J. Ward, S.C. Anderson, J. Gao, S. McClatchie, S. Zador, S. Batten, S. Dressel, J. Duffy-Anderson, E. Fergusson, **R.R. Hopcroft**, B.J. Laurel, & R. O'Malley. 2020. Evaluating ecosystem change as Gulf of Alaska temperate exceeds the limits of preindustrial variability. *Prog. Oceanogr.* **186**:102393
 101. Roncalli, V., M.C. Cieslak, **R.R. Hopcroft**, & P.H. Lenz. 2020. Capital breeding in a diapausing copepod: a transcriptomics analysis. *Frontiers Mar. Sci.* **7**: 56.

100. LaLande, C., J.M. Grebmeier, **R.R. Hopcroft**, & S.L. Danielson. 2020. Annual cycle of export fluxes of biogenic matter near Hanna Shoal in the northeast Chukchi Sea. *Deep-Sea Res. II*. **177**: 104730
99. Kobari, T., A. Sastri, L. Yebra, H. Liu, & **R.R. Hopcroft**. 2019. Evaluation of trade-offs in traditional methodologies for measuring metazooplankton growth rates: assumptions, advantages and disadvantages for field applications. *Prog. Oceanogr.* **178**: 102137
98. Doyle, M. J., S.L. Strom, K.O. Coyle, A.J. Hermann, C. Ladd, A.C. Matarese, S.K. Shotwell, & **R.R. Hopcroft**. 2019. Early life history phenology among Gulf of Alaska fish species: strategies, synchronies, and sensitivities. *Deep-Sea Res. II*. **165**: 41-73.
97. Coyle, K.O., A.J. Hermann, & **R.R. Hopcroft**. 2019. Modeled spatial-temporal distribution of production, chlorophyll, iron and nitrate on the northern Gulf of Alaska shelf relative to field observations. *Deep-Sea Res. II*. **165**: 163-191.
96. Roncalli, V., M.C. Cieslak, M. Germano, **R.R. Hopcroft**, & P.H. Lenz. 2019. Regional heterogeneity impacts gene expression in the sub-arctic zooplankton *Neocalanus flemingeri* in the northern Gulf of Alaska. *Commun. Biol.* **2**:324
95. Ershova, E.A., R. Descoteaux, O. Wangensteen, K. Iken, **R.R. Hopcroft**, C.A. Smoot, J.M. Grebmeier, & B.A. Bluhm, 2019. Diversity and distribution of meroplanktonic larvae in the Pacific Arctic and connectivity with adult benthic invertebrate communities. *Frontiers Mar. Sci.* **6**:490
94. Hauri, C., Danielson, S., McDonnell, A.M.P., **Hopcroft, R.R.**, Winsor, P., Shipton, P., Lalonde, C., Stafford, K. M., Horne, J. K., Cooper, L. W., Grebmeier, J.M., Mahoney, A., Maisch, K., Mcammon, M., Statscewich, H., Sybrandy, A. and Weingartner, T. 2018. From sea ice to seals: A moored marine ecosystem observatory in the Arctic. *Ocean Sci.* **14**: 1423-1433.
93. Rutzen, I., & **R.R. Hopcroft**. 2018. Abundance, biomass and community structure of epipelagic zooplankton in the Canada Basin. *J. Plankton Res.* **40**: 486-499.
92. Roncalli, V., S.A. Sommer, M.C. Cieslak, C. Clarke, **R.R. Hopcroft**, & P.H. Lenz. 2018. Physiological characterization of the emergence from diapause: A transcriptomics approach. *Nature Sci. Rep.* **8**: 12577.
91. El-Tohamy, W.S., **R.R. Hopcroft**, & N.E M. Adel Aziz. 2018. Environmental determinants of zooplankton community in the Damietta Estuary of the Nile River, Egypt. *Pakistan J. Zool.* **50**: 1785-1798.
90. Bentlage, B., Osborn, K.J., Lindsay, D.J., **Hopcroft, R.R.**, Raskoff, K.A. & Collins, A.G. 2018. Loss of metagenesis and evolution of a parasitic life style in a group of open ocean jellyfish. *Mol. Phylogenet. Evol.* **124**:50-59
89. Roncalli, V., M.C. Cieslak, S.A. Sommer, **R.R. Hopcroft**, & P.H. Lenz. 2018. *De novo* transcriptome assembly of the calanoid copepod *Neocalanus flemingeri*: A new resource for emergence from diapause. *Mar. Gen.* **37**:114-119.
88. Batten, S.D., D.E. Raitsos, S. Danielson, **R.R. Hopcroft**, K.O. Coyle & A. McQuattors-Gollop. 2018. Interannual variability in lower trophic levels on the Alaskan Shelf. *Deep-Sea Res. II*. **147**: 58-68.
87. Blanchard, A.L, R.H. Day, A.E. Gall, L.A.M. Aerts, J. Delarue, E.L. Dobbins, **R.R. Hopcroft**, J.M. Questel, T.J. Weingartner, & S.S. Wisdom. 2017. Ecosystem variability in the offshore Northeastern Chukchi Sea. *Prog. Oceanogr.* **159**:130-153.
86. Lindsay, D.J., M.M. Grossmann, B. Bentlage, A.G. Collins, R. Minemizu, **R.R. Hopcroft**, H. Miyake, M. Hidaka-Umetsu, & J. Nishikawa. 2017. The perils of online biogeographic databases: A case study with the “monospecific” genus *Aegina* (Cnidaria, Hydrozoa, Narcomedusae). *Mar. Biol. Res.* **13**: 494-512.

85. McFarlin, K.M., J.M. Questel, **R.R. Hopcroft**, & M.B. Leigh. 2017. Bacterial community structure and functional potential in the Northeastern Chukchi Sea. *Cont. Shelf Res.* **136**:20-28.
84. Smoot, C.S. & **R.R. Hopcroft**. 2017. Depth-stratified community structure of Beaufort Sea slope zooplankton and its relations to water masses. *J. Plankton Res.* **39**:65-78.
83. Smoot, C.S. & **R.R. Hopcroft**. 2017. Cross-shelf gradients of epipelagic zooplankton communities of the Beaufort Sea and the influence of localized hydrographic features. *J. Plankton Res.* **39**:79-91
82. Ershova, E.A., **R.R. Hopcroft**, K.N. Kosobokova & J.M. Questel. 2017. Population structure and production of four sibling species of *Pseudocalanus* spp. in the Chukchi Sea. *J. Plankton Res.* **39**:48-64.
81. Sousa, L., K.O. Coyle, R.P. Barry, T.J. Weingartner, & **R.R. Hopcroft**. 2016. Climate-related variability in abundance of mesozooplankton in the northern Gulf of Alaska 1998-2009. *Deep-Sea Res. II* **132**: 122-135.
80. Li, K.Z., A.J. Doubleday, M.D. Galbraith, & **R.R. Hopcroft**. 2016. High abundance of salps in the coastal Gulf of Alaska during 2011: a first record of bloom occurrence for the northern Gulf. *Deep-Sea Res. II* **132**: 126-145.
79. Pyataeva, S.V., **R.R. Hopcroft**, D.J. Lindsay & A.G. Collins. 2016. DNA barcodes unite two problematic taxa: the meiobenthic *Boreohydra simplex* is a life-cycle stage of *Platocnide borealis*. *Zootaxa* **4150**: 085-092.
78. Questel, J.M., **R.R. Hopcroft**, L. Blanco-Bercial & A. Bucklin. 2016. Phylogeography and connectivity of the *Pseudocalanus* (Copepoda: Calanoida) species complex in the eastern North Pacific and the Pacific Arctic Region. *J. Plankton Res.* **38**:610-623.
77. Nigro, L.M., M.V. Angel, K. Blachowiak-Samolyk, **R.R. Hopcroft** & A. Bucklin. 2016. Identification, discrimination, and discovery of species of marine planktonic ostracods using DNA barcodes. *PLOS-One*. 11: e0146327. doi:10.1371/journal.pone.0146327
76. Kayal, E., B. Bentlage, P. Cartwright, A.A. Yanagihara, D.J. Lindsay, **R.R. Hopcroft**, & A.G. Collins. 2015. Phylogenetic analysis of higher-level relationships within Hydroidolina (Cnidaria: Hydrozoa) using mitochondrial genome data and insight into their mitochondrial transcription. *PeerJ* **3**:e1403.
75. Ershova, E.A., **R.R. Hopcroft**, K.N. Kosobokova, K. Matsuno, R. J. Nelson & A. Yamaguchi. 2015. Long-term changes in summer zooplankton communities of the western Chukchi Sea, 1945-2012. *Oceanography* **28**: 100-115.
74. Pisareva, M.N., R.S. Pickart, K. Iken, E.A. Ershova, J.M. Grebmeier, L.W. Cooper, B.A. Bluhm, C. Nobre, **R.R. Hopcroft**, H. Hu, J. Wang, C.J. Ashjian, X.N. Kosobokova, & T.E. Whitledge. 2015. Patterns of Benthic Fauna and Zooplankton in the Chukchi Sea in Relation to the Physical Forcing. *Oceanography* **28**: 68-83.
73. Wassmann, P., K.N. Kosobokova, D. Slagstad, K. Drinkwater, R.R. Hopcroft, S.E. Moore, I. Ellingsen, R.J. Nelson, E. Popova, J. Berge, & E. Carmack. 2015. The contiguous domains of Arctic Ocean advection: trails of life and death. *Prog. Oceanogr.* **139**: 42-65.
72. Ershova, E.H., **R.R. Hopcroft** & K.N. Kosobokova. 2015. Inter-annual variability of summer mesozooplankton communities of the western Chukchi Sea: 2004-2012. *Polar Biol.* **38**: 1461-1481
71. Doubleday, A.J. & **R.R. Hopcroft**. 2015. Seasonal and interannual patterns of larvaceans and pteropods in the Coastal Gulf of Alaska, and their relationship to pink salmon survival. *J. Plankton Res.* **37**: 134-150.
70. Roberts, D., **R.R. Hopcroft** & G.W. Hosie. 2014. Chapter 6.4. Southern Ocean Pteropods, p. 276-283. In C. De Broyer et al. [eds.], Biogeographic Atlas of the Southern Ocean. *Scientific Committee on Antarctic Research*.

69. Roberts, D., W.R. Howard, J.L. Roberts, S.G. Bray, A.D. Moy, T.W. Trull, & **R.R. Hopcroft**. 2014. Diverse trends in shell weight of three Southern Ocean pteropod taxa collected with Polar Frontal Zone sediment traps from 1997 to 2007. *Polar Biol.* 37:1445-1458.
68. Mathis, J.T., Grebmeier, J.M., Hansell, D.A., **Hopcroft, R.R.**, Kirchman, D.L., Lee, S.H., Moran, S.B., Bates, N.R., VanLaningham, S., Cross, J.N. & Cai, W.-J. 2014. *Carbon Biogeochemistry of the Western Arctic: Primary Production, Carbon Export and the Controls on Ocean Acidification*. In: Grebmeier, J.M., Maslowski, W. (eds.) The Pacific Arctic Sector: status and trends, Springer, New York. pp 223-268.
67. Nelson, R.J., C.J. Ashjian, B.A. Bluhm, B.A., KE Conlan, R.R. Gradinger, J.M. Grebmeier, V.J. Hill, **Hopcroft, R.R.**, B.P.V. Hunt, H.M. Joo, D.L. Kirchman, K.N. Kosobokova, S.H. Lee, W.K.W. Li, C.Lovejoy, M. Poulin, Evelyn Sheer, & K.V. Young. 2014. Biodiversity and Biogeography of lower trophic taxa of the Pacific Arctic region: Sensitivities to Climate Change, In: Grebmeier, J.M., Maslowski, W. (Eds.), The Pacific Arctic Sector: status and trends. Springer, New York. pp. 269-336
66. Howes, E.L., N. Bednaršek, J. Büdenbender, S. Comeau, A. Doubleday, S.M. Gallager, **R.R. Hopcroft**, S. Lischka, A.E. Maas, J. Bijma, & J.-P. Gattuso. 2014. Sink and swim, a status review of thecosome pteropod culture techniques. *J. Plankton Res.* **36**: 299-315.
65. Liu, H., **R.R. Hopcroft** & H. Bi. 2013. Statistical modeling of copepod growth rates: comparisons for data collections using the artificial cohort (AC) method. *J. Exp. Mar Biol. Ecol.* **448**: 271–280.
64. Coyle, K.O., G.A. Gibson, K. Hedstrom, A. Hermann, & **R.R. Hopcroft**. 2013. Zooplankton biomass, advection and production on the northern Gulf of Alaska shelf from simulations and field observations. *J. Mar. Sys.* **128**: 185-207.
63. Day, R.H., T.J. Weingartner, **R.R. Hopcroft**, L.A.M. Aerts, A.L. Blanchard, A.E. Gall, B.J. Gallaway, D.E. Hannay, B.A. Holladay, J.T. Mathis, B.L. Norcross, J.M. Questel, & S.S. Wisdom. 2013. The offshore northeastern Chukchi Sea: a complex high-latitude system. *Cont. Shelf Res.* **67**: 147-165.
62. Questel, J.M., C. Clarke, & **R.R. Hopcroft**. 2013. Seasonal and interannual variation in the planktonic communities of the northeastern Chukchi Sea during the summer and early fall. *Cont. Shelf. Res.* **67**: 23-41.
61. Hunt, G.L., Jr., A.L. Blanchard, P. Boveng, P. Dalpadado, K. Drinkwater, L. Eisner, **R.R. Hopcroft**, K. Kovacs, B. Norcross, P. Renaud, M. Reigstad, G.A. Whitehouse & R. Woodgate. 2013. The Barents and Chukchi Seas Compared: Why does the Barents support more productive fisheries? *J. Mar. Sys.* **109-110**: 43-68
60. Appeltans, W., *et al.* (**R.R. Hopcroft** among 122 others) 2012. The Magnitude of Global Marine Species Diversity. *Curr. Biol.* **22**: 2189-2202
59. Michel, C., B. Bluhm, V. Galluci, T. Gaston, F.J.L. Gordillo, **R.R. Hopcroft**, N. Jensen, T. Mustonen, A. Niemi, T.G. Nielsen, H. Meltote. 2012. Biodiversity of Arctic Marine Ecosystems and Responses to Climate Change. *Biodiversity* **13**: 200-214
58. Howard, W., D. Roberts, A. Moy, M. Lindsay, **R.R. Hopcroft**, T.W. Trull & S. Bray. 2011. Distribution, abundance and seasonal flux of pteropods in the Sub-Antarctic Zone. *Deep-sea Res. II.* **58**: 2293-2300
57. Bluhm, B.A., A.V. Gebruk, R. Gradinger, **R.R. Hopcroft**, F. Huettmann, K.N. Kosobokova, S.I. Sirenko, & J.M. Weslawski. 2011. Arctic marine biodiversity – an update of species richness and examples of biodiversity change. *Oceanography* **24**:198-214.

56. Roberts, D., W.R. Howard, A.D. Moy, J.L. Roberts, T.W. Trull, S.G. Bray and R.R. Hopcroft. 2011. Interannual pteropod variability in sediment traps deployed above and below the aragonite saturation horizon in the Sub-Antarctic Southern Ocean. *Polar Biol.* **34**: 1739-1750
55. Kosobokova, K.N., H.-J. Hirche & **R.R. Hopcroft**. 2011. Patterns of zooplankton diversity through the depths of the Arctic's central basins. *Mar. Biodiv.* **41**: 29-50
54. De Broyer, C., B. Danis et al. (**R.R. Hopcroft** among 64 others). 2011. How many species in the Southern Ocean? Towards a dynamic inventory of the Antarctic marine species. *Deep Sea Res. II*, **58**: 5-17.
53. Wiebe, P.H., A. Bucklin, L. Madin, M.V. Angel, T. Sutton, F. Pagés, **R.R. Hopcroft**, D. Lindsay. 2010. Deep-sea sampling on CMarZ cruises in the Atlantic Ocean – an Introduction. *Deep-sea Res. II*. **57**: 2157-2166.
52. Jennings, R.M., A. Bucklin, H. Ossenbrügger, **R.R. Hopcroft**. 2010. Species diversity of planktonic gastropods (Pteropoda and Heteropoda) from six ocean regions based on DNA barcode analysis. *Deep-Sea Res. II*. **57**: 2199-2210.
51. Bucklin, A., **R.R. Hopcroft**, K.N. Kosobokova, L.M. Nigro, B.D. Ortman, C.J. Sweetman and R.M. Jennings. 2010. DNA barcoding of Arctic Ocean holozooplankton for species identification and recognition *Deep-Sea Res. II*. **57**:40-48
50. **Hopcroft, R.R.** & K.N. Kosobokova. 2010. Distribution and egg production of *Pseudocalanus* species in the Chukchi Sea. *Deep-Sea Res. II*. **57**:49-56
49. **Hopcroft, R.R.**, K.N. Kosobokova & A.I. Pinchuk. 2010. Zooplankton community patterns in the Chukchi Sea during summer 2004. *Deep-Sea Res. II*. **57**: 27-39
48. Kosobokova, K.N. & **R.R. Hopcroft**. 2010. Diversity and vertical distribution of mesozooplankton in the Arctic's Canada Basin. *Deep-Sea Res. II*. **57**: 96-110
47. Raskoff, K.A., **R.R. Hopcroft**, K.N. Kosobokova, J.E. Purcell & M. Youngbluth. 2010. Jellies under ice: ROV observations from the 2005 Hidden Ocean Expedition. *Deep-Sea Res. II*. **57**:111-126
46. Purcell, J.E., T.E. Whitledge, K.N. Kosobokova, & **R.R. Hopcroft**. 2010. Distribution, abundance, and predation effects of epipelagic ctenophores and jellyfish in the western Arctic Ocean. *Deep-Sea Res. II*. **57**:127-135
45. Reid, P.C., E. Lewis-Brown, A. Fischer, et al. (**R.R. Hopcroft** among 28 additional contributors) 2009. Impacts of the Oceans on Climate Change. *Adv. Mar. Biol.* **56**: 1-150
44. Tsagkogeorga, G., Turon, X., **Hopcroft, R.R.**, Tilak, M.-K., Feldstein, T., Shenkar, N., Loya, Y., Huchon, D., Douzery, E.J., and Delsuc, F. 2009. An updated 18S rRNA phylogeny of tunicates based on mixture and secondary structure models. *BMC Evol. Biol.* **9**: 187.
43. Jaspers, C., T.G. Nielsen, J. Carstensen, **R.R. Hopcroft**, and E.F. Møller. 2009. Mesozooplankton distribution across the Southern Indian Ocean with emphasis on the role of Larvaceans. *J. Plankton Res.* **31**: 525-540.
42. Bell, J.L., & **R.R. Hopcroft**. 2008. Assessment of ZooImage as a tool for the classification of zooplankton. *J. Plankton Res.* **30**: 1351-1367
41. Liu, H. & **R.R. Hopcroft**. 2008. Growth and development of *Pseudocalanus* spp. in the northern Gulf of Alaska. *J. Plankton Res.* **30**: 923-935.
40. Pinchuk, A.I., K.O. Coyle & **R.R. Hopcroft**. 2008. Climate-related variability in abundance and reproduction of euphausiids in the northern Gulf of Alaska in 1998-2003. *Prog. Oceanogr.* **77**: 203-216.

39. Liu, H. & **R.R. Hopcroft**. 2007. A comparison of seasonal growth and development of the copepods *Calanus marshallae* and *C. pacificus* in the northern Gulf of Alaska. *J. Plankton Res.* **29**: 569-581.
38. Kosobokova, K.N., H.-J. Hirche & **R.R. Hopcroft**. 2007. Reproductive biology of deep-water copepods in the Arctic Ocean. *Mar. Biol.* **151**:919-934.
37. Pinchuk, A.I. & **R.R. Hopcroft**. 2007. Seasonal variations in the growth rate of euphausiids (*Thysanoessa inermis*, *T. spinifera*, and *Euphausia pacifica*) from the northern Gulf of Alaska. *Mar. Biol.* **151**: 257-269
36. Kimmerer, W.J., A.G. Hirst, **R.R. Hopcroft**, & A.D. McKinnon. 2007. Estimating juvenile copepod growth rates: corrections, inter-comparisons and recommendations. *Mar. Ecol. Prog. Ser.* **336**:187-202.
35. Liu, H. & **R.R. Hopcroft**. 2006. Growth and development of *Metridia pacifica* in the northern Gulf of Alaska. *J. Plankton Res.* **28**: 769-781
34. Pinchuk, A.I. & **R.R. Hopcroft**. 2006. Egg production and early development of *Thysanoessa inermis* and *Euphausia pacifica* (Crustacea: Euphausiacea) in the northern Gulf of Alaska. *J. Exp. Mar Biol. Ecol.* **332**:206-215.
33. Liu, H. & **R.R. Hopcroft**. 2006. Growth and development of *Neocalanus flemingeri/plumchrus* in the northern Gulf of Alaska: validation of the artificial cohort method in cold waters. *J. Plankton Res.* **28**: 87-101.
32. **Hopcroft, R.R.**, & B.H. Robison. 2005. New mesopelagic larvaceans in the genus *Fritillaria* from Monterey Bay, California. *J. Mar. Biol. Assoc.* **85**: 665-678.
31. Napp, J.M., **R.R. Hopcroft**, C.T. Baier & C. Clarke 2005. Distribution and species-specific egg production of *Pseudocalanus* in the Gulf of Alaska. *J. Plankton Res.* **27**: 415-426.
30. **Hopcroft, R.R.**, C. Clarke, R.J. Nelson, & K.A. Raskoff. 2005. Zooplankton Communities of the Arctic's Canada Basin: the contribution by smaller taxa. *Polar Biol.* **28**: 197-206.
29. **Hopcroft, R.R.**, C. Clarke, A.G. Byrd & A.I. Pinchuk. 2005. The paradox of *Metridia* spp. egg production rates: A new technique and measurements from the coastal Gulf of Alaska. *Mar. Ecol. Prog. Ser.* **286**: 193-201.
28. Raskoff, K.A., J.E. Purcell & **R.R. Hopcroft**. 2005. Gelatinous zooplankton of the Arctic Ocean: *in situ* observations under the ice. *Polar Biol.* **28**: 207-217.
27. Slater, L.M. & **R.R. Hopcroft**. 2005. Development, growth, and egg production of *Centropages abdominalis* in the subarctic Pacific. *J. Plankton Res.* **27**: 71-78.
26. **Hopcroft, R.R.** 2005. Diversity in larvaceans: How many species? pp. 45-57. *In*: Response of marine ecosystems to global change: ecological impact of appendicularians. Gorsky, G, M.J. Youngbluth & D. Deibel (eds), Gordon and Breach Scientific Publishers. Paris.
25. Rose, K., J.C. Roff & **R.R. Hopcroft**. 2004. Production of *Penilia avirostris* in Kingston Harbour, Jamaica. *J. Plankton Res.* **26**: 605-615.
24. **Hopcroft, R.R.**, & J.C. Roff. 2003. Response of tropical marine phytoplankton communities to manipulations of nutrient concentration and grazing pressure. *Bull. Mar. Sci.* **73**: 397-420
23. Persad, G., **R.R. Hopcroft**, M.K. Webber & J.C.Roff. 2003. Abundance, biomass and production of ctenophores and medusae off Kingston Jamaica. *Bull. Mar. Sci.* **73**: 379-396
22. **Hopcroft, R.R.**, C. Clarke & F.P. Chavez. 2002. Copepod communities in Monterey Bay during the 1997 to 1999 El Niño and La Niña. *Prog. Oceanogr.* **54**: 251-263.

21. Weingartner, T.J. *et al.* (**R.R. Hopcroft** among 18 others) 2002. The Northeast Pacific GLOBEC program: coastal Gulf of Alaska. *Oceanography* **15**: 48-63.
20. Nielsen, T.G., E.F. Møller, S. Satapoomin, M. Ringuette & **R.R. Hopcroft**. 2002. Egg hatching rate of the cyclopoid copepod *Oithona similis* in arctic and temperate waters. *Mar. Ecol. Prog. Ser.* **236**: 301-306.
19. Marine Zooplankton Colloquium 2. 2001. (**R.R. Hopcroft** among 40 contributors) Future marine zooplankton research – a perspective. *Mar. Ecol. Prog. Ser.* **222**: 297-308.
18. **Hopcroft, R.R.**, F.P. Chavez & J.C. Roff. 2001. Size paradigms in copepod communities: a re-examination. *Hydrobiologia* **453/454**:133-141.
17. **Hopcroft, R.R.**, & B.H. Robison. 1999. A new mesopelagic larvacean, *Mesochordaeus erythrocephalus*, sp. nov., from Monterey Bay, with description of its filtering house. *J. Plankton Res.* **21**: 1923-1937.
16. **Hopcroft, R.R.**, & J.C. Roff. 1998. Zooplankton growth rates: the influence of female size and resources on egg production of tropical marine copepods. *Mar. Biol.* **132**: 79-86.
15. **Hopcroft, R.R.**, & J.C. Roff. 1998. Zooplankton growth rates: the influence of size in nauplii of tropical marine copepodites. *Mar. Biol.* **132**: 87-96.
14. **Hopcroft, R.R.**, & J.C. Roff. 1998. Production of tropical larvaceans in Kingston Harbour, Jamaica: are we ignoring an important secondary producer? *J. Plankton Res.* **20**: 557-569.
13. **Hopcroft, R.R.**, J.C. Roff. & H.A. Bouman. 1998. Zooplankton growth rates: larvaceans of the genus *Appendicularia*, *Fritillaria* and *Oikopleura* from tropical waters. *J. Plankton Res.* **20**: 539-555.
12. **Hopcroft, R.R.**, J.C. Roff & D. Lombard. 1998. Production of tropical copepods in nearshore waters off Kingston, Jamaica: the importance of small species. *Mar. Biol.* **130**: 593-604.
11. **Hopcroft, R.R.**, J.C. Roff, M.K. Webber, & J.D.S. Witt. 1998. Zooplankton Growth Rates: the influence of size and resources in tropical marine copepodites. *Mar. Biol.* **132**: 67-77.
10. Turner, J.T., **R.R. Hopcroft**, J.A. Lincoln, C. Sassman Huestis, P.A. Tester, & J.C. Roff. 1998. Zooplankton feeding ecology: grazing by marine copepods and cladocerans upon cyanobacteria from Kingston Harbour, Jamaica. *Mar. Ecol.* **19**: 195-208.
9. **Hopcroft, R.R.**, & J.C. Roff. 1996. Zooplankton growth rates: diel egg production in the copepods *Oithona*, *Euterpina* and *Corycaeus* from tropical waters. *J. Plankton Res.* **18**: 789-803.
8. **Hopcroft, R.R.**, & J.C. Roff. 1995. Zooplankton Growth Rates: Extraordinary production by the larvacean *Oikopleura dioica* in tropical waters. *J. Plankton Res.* **17**: 205-220.
7. Roff, J.C., J.T. Turner, M.K. Webber, & **R.R. Hopcroft**. 1995. Bacterivory by tropical copepod nauplii: extent and possible significance. *Mar. Micro. Ecol.* **9**: 165-175.
6. Lynn, D.H., J.C. Roff & **R.R. Hopcroft**. 1991. The annual cycle of abundance and biomass of aloricate ciliates in tropical neritic waters off Kingston, Jamaica. *Mar. Biol.* **110**: 437-448.
5. **Hopcroft, R.R.**, & J.C. Roff. 1990. Phytoplankton size fractions in a tropical neritic ecosystem near Kingston, Jamaica. *J. Plankton Res.* **12**: 1069-1088.
4. **Hopcroft, R.R.**, J.C. Roff & J.A. Berges. 1990. Size-fractionated sedimentation in a tropical neritic ecosystem near Kingston, Jamaica. *Contin. Shelf Res.* **10**: 795-806.
3. Roff, J.C., **R.R. Hopcroft**, C. Clarke, L.A. Chisholm, D.H. Lynn, & G.L. Gilron. 1990. Structure and energy flow in a tropical neritic planktonic community off Kingston, Jamaica. In: *Trophic relationships in the marine environment. (Proc. 24th Europ. Mar. Biol. Symp.)* Barnes, M. and R.N. Gibson (eds), Aberdeen University Press. pp. 266-280.

2. Roff, J.C. & **R.R. Hopcroft**. 1986. High precision microcomputer based measuring system for ecological research. *Can. J. Fish. Aquat. Sci.* **43**: 2044-2048.
1. **Hopcroft, R.R.**, D.B. Ward & J.C. Roff. 1985. The relative significance of body surface and cloacal respiration in *Psolus fabricii* (Holothuroidea: Dendrochirotida). *Can. J. Zool.* **63**: 2878-2881.

PUBLICATIONS (editorial review only)

13. Ershova, E. A., Kosobokova, K.N., Daase, M., Darnis, G., **Hopcroft, R. R.**, Kwaśniewski, S. & Søreide, J. (2024) Mesozooplankton and macroplankton of the Arctic Ocean. In: P. Wassmann (ed) Elements of a pan-arctic ocean ecology. Orkana forlag.
12. Majaneva, S., Havermans, C., **Hopcroft, R. R.**, Kosobokova, K. N., Verhaegen, G. & Hosia, A. (2024) Gelatinous zooplankton - Delicate drifters of the Arctic Ocean. In: P. Wassmann (ed) Elements of a pan-arctic ocean ecology. Orkana forlag.
11. Ormseth, O. A., M.M. Baker, **R.R. Hopcroft**, C. Ladd, C.W. Mordy, J.H. Moss, F.J. Mueter, S.K. Shotwell & S.L. Strom. 2019. Introduction to understanding ecosystem processes in the Gulf of Alaska, Volume 2. *Deep-Sea Res. II.* **165**:1-6 DOI:10.1016/j.dsr2.2019.06.019
10. Aw, M. & **R.R. Hopcroft**. 2017. Unravelling a Hidden Ocean: the Chukchi Borderland Expedition. *Ocean Geographic* **42**:13-30.
9. **Hopcroft, R.R.** & Day, R.H. (2013) Introduction to the special issue on the ecology of the northeastern Chukchi Sea. *Cont. Shelf Res.* **67**: 1-4.
8. Bluhm, B.A., R.R. Gradinger & **R.R Hopcroft**. 2011. Arctic Ocean Diversity: synthesis. *Mar. Biodiv.* **41**: 1-4
7. Schiaparelli, S. & **R.R. Hopcroft**. 2011. The Census of Antarctic Marine Life: Diversity and Change in Southern Ocean Ecosystems. *Deep-Sea Res. II.* **58**: 1-4
6. Gradinger, R., B.A Bluhm, **R.R. Hopcroft**, A. Gebruk, K.N. Kosobokova, B. Sirenko, & J.M. Wesławski. 2010. Marine Life in the Arctic. In: A.D. D. McIntyre. (ed) *Life in the World's Oceans*, Blackwell Publishing Ltd., New York, pp.183-202
5. Bluhm, B.A., K. Iken, **R.R. Hopcroft**. 2010. Observations and exploration of the Arctic's Canada Basin and the Chukchi Sea: the Hidden Ocean and RUSALCA expeditions. *Deep-Sea Res. II.* **57**:1-14
4. Davis, C. S. & **R.R. Hopcroft**. 2008. The drifters. *Ocean Geogr. Mag.*, **July 2008**, 23-40.
3. Bluhm, B. A., R. Gradinger, F. Hüttmann, **R.R. Hopcroft**, A. Grebuk & B.I. Sirenko. 2008. Ein Zensus des Marinen Lebens in der Arktis. *Biol. unserer Zeit* **38**: 40-49.
2. Crane, K., J. Potter & **R.R. Hopcroft**. 2005. NOAA's Arctic Exploration Program. *Arctic Res. U.S.* **19**: 3-10
1. **Hopcroft, R.R.** 2003. Spineless wonders: the pelagic fauna. *Current: J. Mar. Ed.* **19**: 10-12.

MAJOR REPORTS:

12. Auster, P., Clark, M. R., Hall-Spencer, J., Hopcroft, R. R., Ingels, J., Levin, L. A., Metaxas, A., et al. 2020. Chapter 7L. Continental Slopes and Submarine Canyons. In World Ocean Council - Second Assessment Report. pp.437-452.
11. Malone, T., Azzaro, M., Hopcroft, R. R., Park, C., Tadokoro, K., Thorndyke, M., and Yoo, S. 2020. Chapter 6A. Plankton (Phytoplankton, Zooplankton, Bacteria and Viruses). In World Ocean Council - Second Assessment Report. pp.115-140
10. Lovejoy, C., C. von Quillfeldt, **R.R. Hopcroft**, M. Poulin, M. Thaler, A. Arendt, H. Debes, A. Gislason, and K.N. Kosobokova. 2017. Plankton. Pages 63-88 in CAFF, editor. State of the Arctic Marine Biodiversity Report. Conservation of Arctic Flora and Fauna (CAFF), Akureyri, Iceland.

9. Snelgrove, P., E. V. Berghe, P. Miloslavich, P. Archambault, I. Bailly, A. Brandt, A. Bucklin, M. Clark, F. Dahdouh-Guebas, P. Halpin, **R.R. Hopcroft**, K. Kaschner, B. Lascelles, L. A. Levin, S. Menden-Deuer, A. Metaxas, D. Obura, R. R. Reeves, T. Rynearson, K. Stocks, M. Tarzia, D. Tittensor, V. Tunnicliffe, B. Wallace, R. Wanless, T. Webb, P. Bernal, J. Rice, & A. Rosenberg. 2016. Chapter 34. Global Patterns in Marine Biodiversity. Pages 1-37 in *The First Global Integrated Marine Assessment (World Ocean Assessment I)*. United Nations, New York.
8. Miloslavich, P., T. Webb, P. Snelgrove, E. V. Berghe, K. Kaschner, P. N. Halpin, R. R. Reeves, B. Lascelles, M. Tarzia, B. P. Wallace, N. Dulvy, C. A. Simpfendorfer, G. Schillinger, A. Boustany, B. B. Collette, J. E. Graves, D. Obura, M. Edwards, M. Clark, K. Stocks, T. Morato, V. Tunnicliffe, **R.R. Hopcroft**, P. Archambault, P. Pepin, J. John W. Tunnell, F. Moretzsohn, E. Escobar-Briones, H. Ojaveer, J. Gobin, M. Nakaoka, K. Fujikura, H. Yamano, X. Li, K. Venkataraman, C. Raghunathan, C. L. Griffiths, N. J. Bax, A. J. Butler, A. Brandt, H. J. Griffiths, & J. Rice. 2016. Chapter 35. Extent of Assessment of Marine Biological Diversity. Pages 1-58 in *The First Global Integrated Marine Assessment (World Ocean Assessment I)*. United Nations, New York.
7. Michel, C., J. Rice, B. Bluhm, C. Duarte, V. Galluci, T. Gaston, F.J.L. Gordillo, R. Gradinger, **R.R. Hopcroft**, N. Jensen, K. Mustonen, T. Mustonen, T.G. Nielsen, A. Niemi, H. Rune Skjoldal (2013) Arctic Marine Ecosystems. In: 2013(ed.) Arctic Biodiversity Assessment: Status and Trends in Biodiversity in the Arctic. Conservation of Arctic Flora and Fauna, Akureyri. pp.486-527.
6. Gill, M.J., Crane, K., Hindrum, R., Arneberg, P., Bysveen, I., Denisenko, N.V., Gofman, V., Grant-Friedman, A., Gudmundsson, G., Hopcroft, R.R., Iken, K., Labansen, A., Liubina, O.S., Melnikov, I.A., Moore, S.E., Reist, J.D., Sirenko, B.I., Stow, J., Ugarte, F., Vongraven, D. & Watkins, J. (2011) Arctic Marine Biodiversity Monitoring Plan (CBMP-MARINE PLAN) *CAFF Monitoring Series Report nr. 3*, CAFF International Secretariat, Akureyri, Iceland.
5. Koubbi, P., Hosie, G, Constable, A., Raymond, B., Moteki, M., Améziane, N., Causse, R., Fuentes, V. Heerah, K., Penot, F., Vincent, D., Ancel, A., Bost, C.A., Eléaume, M., Lindsay, D., Lindsey, M., Cottin, M., Charrassin, J.B. Ropert-Coudert, Y., Toda, R., Grossmann, M., Hopcroft, R.R., Ozouf-Costaz, C., Zimmer, I. and CEAMARC experts. 2010. Estimating the biodiversity of the shelf and oceanic zone of the d'Urville Sea (East Antarctica) for ecoregionalisation using the CEAMARC (Collaborative East Antarctic Marine Census) CAML surveys. *CCAMLR WS-MPA, Brest, France*.
4. Mundy, P., D. Allen, J.L. Boldt, N.A. Bond, S. Dressel, E. Farley Jr., D. Hanselman, J. Heifetz, **R.R. Hopcroft**, M.A. Janout, C. Ladd, R. Lam, P. Livingston, C. Lunsford, J.T. Mathis, F. Mueter, C. Rooper, N. Sarkar, K. Shotwell, M. Sturdevant, A.C. Thomas, T.J. Weingartner & D. Woodby. 2010. Status and trends of the Gulf of Alaska Coastal region, 2003-2008. pp. 142-195. In: S.M. McKinnell & M. Dagg (ed.) *Marine Ecosystems of the North Pacific Ocean; 2003-2008. PICES Special Publication 4. 393p*.
3. **Hopcroft, R.R.**, B.A. Bluhm, & R.R. Gradinger. 2008. Arctic Ocean Synthesis: Analysis of Climate Change Impacts in the Chukchi and Beaufort Seas with Strategies for Future Research (2nd edition). *North Pacific Research Board, Anchorage, Alaska. 153 p*
2. **Hopcroft, R.R.**, B.A. Bluhm, R.R. Gradinger, T.E. Whitledge, T.J. Weingartner, B. Norcross, & A.M. Springer. 2006. Arctic Ocean Synthesis: Analysis of Climate Change Impacts in the Chukchi and Beaufort Seas with Strategies for Future Research. *Prepared for the North Pacific Research Board, Anchorage, Alaska*
1. **Hopcroft, R.R.** 2002. Comparison of plankton size spectra from net tow samples and OPC measurements in marine waters. pp. 7-11. In: M. Zhou & K. Tande (ed.) *Optical Plankton Counter Workshop. GLOBEC Report No.17*, 17-20 June 2001, Tromso, Norway.