

Recent Salmon-Related Publications from the NWFSC and SWFSC of potential interest to the
PFMC (2018-2019)

Joint NW-SWFSC

1. Brooks, Elizabeth N., James T. Thorson, Kyle W. Shertzer, Richard D.M. Nash, Jon K.T. Brodziak, Kelli F. Johnson, Nikolai Klibansky, Brian K. Wells, and Jonathan White. In press. Paulik revisited: Statistical framework and estimation performance of multistage recruitment functions. *Fisheries Research*. <https://doi.org/10.1016/j.fishres.2018.06.018>
2. Haltuch, M.A., E.N. Brooks, J. Brodziak, J.A. Devine, K.F. Johnson, N. Klibansky, R.D.M. Nash, M.R. Payne, K.W. Shertzer, S. Subbey, and B.K. Wells. In press. Unraveling the recruitment problem: A review of environmentally-informed forecasting and management strategy evaluation. *Fisheries Research*. <https://doi.org/10.1016/j.fishres.2018.12.016>
3. Friedman, W. R. PhD, J. A. Santora, I. D. Schroeder, D. D. Huff, R. D. Brodeur, J. C. Field, B. K. Wells. 2018. Environmental and geographic relationships among salmon forage assemblages along the continental shelf of the California Current. *Marine Ecology Progress Series*, 596:181-198. doi:<https://doi.org/10.3354/meps12598>
4. Henderson, M. J., J. Fiechter, D. D. Huff, B. K. Wells. 2018. Spatial variability in ocean-mediated growth potential is linked to Chinook salmon survival. *Fisheries Oceanography*, 00:1-11. doi:10.1111/fog.12415
5. Henderson, Mark J., Ilysa S. Iglesias, Cyril Joseph Michel, Arnold J. Ammann, and David D. Huff. In press. Estimating spatial-temporal differences in Chinook salmon outmigration survival with habitat and predation related covariates. *Canadian Journal of Fisheries and Aquatic Sciences*. <https://doi.org/10.1139/cjfas-2018-0212>
6. Herbold, Bruce, Stephanie M. Carlson, Rene Henery, Rachel C. Johnson, Nate Mantua, Michelle McClure, Peter Moyle, and Ted Sommer. 2018. Managing for salmon resilience in California's variable and changing climate. *San Francisco Estuary and Watershed Science* 16(2):3 (23 p.).
7. Michel, C. J., J. M. Smith, N. J. Demetras, D. D. Huff, S. A. Hayes. 2018. Non-native Fish Predator Density and Molecular-based Diet Estimates Provide Direct Evidence of Predation on Juvenile Salmon in the San Joaquin River, California. *San Francisco Estuary and Watershed Science*, 16(4(3)):1-19. doi:<https://doi.org/10.15447/sfew.2018v16iss4art3>
8. Riddell, Brian E., Richard D. Brodeur, Alexander V. Bugaev, Paul Moran, James M. Murphy, Joseph A. Orsi, Marc Trudel, Laurie A. Weitkamp, Brian K. Wells, and Alex C. Wertheimer. 2018. Ocean ecology of Chinook Salmon. In: Richard J. Beamish (ed.), *The ocean ecology of Pacific salmon and trout*, p. 555-696. American Fisheries Society.
9. Shelton, A. O., W. H. Satterthwaite, E. Ward, B. E. Feist, B. J. Burke. 2019. Using hierarchical models to estimate stock-specific and seasonal variation in ocean distribution, survivorship, and aggregate abundance of fall run Chinook salmon. *Canadian Journal of Fisheries and Aquatic Sciences*, 76(1):95-108. doi:<https://doi.org/10.1139/cjfas-2017-0204>
10. Wainwright, T. C., R. L. Emmett, L. A. Weitkamp, S. A. Hayes, P. J. Bentley, J. A. Harding. 2019. Effect of a mammal excluder device on trawl survey catches of salmon and other pelagic animals. *Canadian Journal of Fisheries and Aquatic Sciences*.
11. Waples, R. S., S. T. Lindley. 2018. Genomics and conservation units: The genetic basis of adult migration timing in Pacific salmonids. *Evolutionary Applications*.

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13. Arkoosh, M. R., A. L. Van Gaest, S. A. Strickland, G. P. Hutchinson, A. B. Krupkin, M. B. R. Hicks, and J. P. Dietrich. 2018. Dietary exposure to a binary mixture of polybrominated diphenyl ethers alters innate immunity and disease susceptibility in juvenile Chinook salmon (*Oncorhynchus tshawytscha*). *Ecotoxicology and Environmental Safety* 163:96-103.
14. Bal, G., M. D. Scheuerell, E. J. Ward. 2018. Characterizing the strength of density dependence in at-risk species through Bayesian model averaging. *Ecological Modelling*, 381:1-9. doi:10.1016/j.ecolmodel.2018.04.012
15. Bellmore, J. R., G. R. Pess, J. J. Duda, J. E. O'Connor, A. East, M. Foley, A. E. Wilcox, J. J. Major, P. B. Shafroth, S. A. Morley, C. Magirl, C. W. Anderson, J. E. Evans, C. E. Torgersen. 2019. Conceptualizing ecological responses to dam removal: If you remove it, what's to come?. *Bioscience*.
16. Berejikian, B. A., D. M. Van Doornik. 2018. Increased natural reproduction and genetic diversity one generation after cessation of a steelhead trout (*Oncorhynchus mykiss*) conservation hatchery program. *PLoS ONE*. doi:https://doi.org/10.1371/journal.pone.0190799
17. Bond, M. H., T. G. Nodine, T. J. Beechie, R. W. Zabel. 2018. Estimating the benefits of widespread floodplain reconnection for Columbia River Chinook salmon. *Canadian Journal of Fisheries and Aquatic Sciences*.
18. Chen, M. F., S. M. O'Neill, A. J. Carey, R. H. Conrad, B. A. Stewart, K. R. Snekvik, G. M. Ylitalo, P. K. Hershberger. 2018. Nanophyetus salmincola infection and toxic contaminant exposure in outmigrating Steelhead Trout from Puget Sound: implications for early marine survival. *Journal of Aquatic Animal Health*.
19. Chittaro, P. M., L. L. Johnson, D. J. Teel, P. Moran, S. Y. Sol, K. H. Macneale, R. W. Zabel. 2018. Variability in the performance of juvenile Chinook salmon is explained primarily by when and where they resided in estuarine habitats. *Ecology of Freshwater Fish*. doi:10.1111/eff.12398
20. Claxton, A. T., L. A. Weitkamp, K. C. Jacobson. 2018. Prevalence of the nematode parasite *Hysterothylacium aduncum* in a benthic amphipod *Americorophium salmonis* consumed by juvenile Chinook salmon (*Oncorhynchus tshawytscha*) in the Columbia River estuary. *Northwest Science*.
21. Duguid, WDP, Iwanicki, TW, Journey ML, Noel, AL, Beckman, BR, and Juanes F. 2018. Assessing indices of growth for field studies of juvenile salmon : An experiment and synthesis. *Marine and Coastal Fisheries : Dynamics, Management, and Ecosystem Science*. 10:204-223.
22. Freshwater, C., B. J. Burke, M. D. Scheuerell, S. C. Grant, M. Trudel, F. Juanes. 2018. Coherent population dynamics associated with sockeye salmon juvenile life history strategies. *Canadian Journal of Fisheries and Aquatic Sciences*, 75:1346-1356. doi:10.1139/cjfas-2017-0251
23. Fullerton, A. H., C. E. Torgersen, J. J. Lawler, E. A. Steel, J. L. Ebersole, S. Y. Lee. 2018. Longitudinal thermal heterogeneity in rivers and refugia for coldwater species: effects of scale and climate change. *Aquatic Sciences*, 80(3):1-15.
24. Furrman, AE, Larsen, DA, Steel, EA, Young, G. and Beckman, BR. 2018. Chinook salmon emergence phenotypes: Describing the relationships between temperature, emergence timing, and condition factor in a reaction norm framework. *Ecology of Freshwater Fishes* 27:350-362.
25. Gamble, M. M., K. A. Connelly, J. R. Gardner, L. A. Campbell, J. W. Chamberlin, K. I. Warheit, D. A. Beauchamp. 2018. Size-selective mortality of hatchery and wild sub-yearling Chinook salmon (*Oncorhynchus tshawytscha*) during early marine life stages in Puget Sound. *Transactions of the American Fisheries Society*.
26. Gavary, MR, Nichols, KM, Goetz, GW, Middleton, MA and Swanson, P 2018. Characterization of Genetic and Epigenetic Variation in Sperm and Red Blood Cells from Adult Hatchery and Natural-Origin Steelhead, *Oncorhynchus mykiss* G3: GENES, GENOMES, GENETICS 8: 3723 3736; <https://doi.org/10.1534/g3.118.200458>

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27. Gosselin, J. L., R. W. Zabel, J. J. Anderson, J. R. Faulkner, A. M. Baptista, B. P. Sandford. 2018. Conservation planning for freshwater carryover effects on Chinook salmon survival. *Ecology and Evolution*, 8(1):319-332.
28. Hall, J. E., C. M. Greene, O. Stefankiv, J. H. Anderson, B. Timpane-Padgham, G. R. Pess, T. J. Beechie. 2018. Large river habitat complexity and productivity of Chinook salmon in Puget Sound Rivers. *PLoS ONE*.
29. Hall, J. E., T. P. Khangaonkar, C. A. Rice, J. W. Chamberlin, T. Zackey, F. E. Leonetti, M. Rustay, K. L. Fresh, A. N. Kagley, M. Rowse. 2018. Characterization of annual salinity and temperature patterns in a large river delta to support tidal wetland habitat restoration efforts. *Northwest Science*, 92(1):36-52.
30. Harstad, D. L., D. A. Larsen, J. Miller, I. Adams, D. K. Spangenberg, S. L. Nance, L. Rohrbach, J. Murauskas, B. R. Beckman. 2018. Winter-rearing temperature affects growth profiles, age of maturation and smolt-to-adult returns for yearling summer Chinook Salmon in the upper Columbia River basin. *North American Journal of Fisheries Management*.
31. Haukenes, A. H., J. Bumgarner, B. P. Sandford. 2018. Evaluation of electronarcosis as a tool for collection of biological data from adult steelhead. *North American Journal of Aquaculture*, 1548-8454 online. doi:10.1002/naaq.10039
32. Journey, ML, Trudel, M, Young, G and Beckman BR. 2018 Evidence for depressed growth of juvenile Pacific salmon (*Oncorhynchus* sp.) in Johnstone and Queen Charlotte Straits, British Columbia. 2018. *Fisheries Oceanography* 27:174-183.
33. Kozfkay, C. C., M. Peterson, B. P. Sandford, E. Johnson, P. A. Kline. 2019. The productivity and viability of Snake River Sockeye Salmon hatchery adults released into Redfish Lake, Idaho. *Transactions of the American Fisheries Society*, 1548-8659 online. doi:10.1002/tafs.10136
34. Manhard, C. V., M. Adkinson, J. J. Hard, W. W. Smoker, A. J. Gharrett. 2018. Local adaptation of phenology revealed in outcrosses between spawning segments of a salmonid population. *Molecular Ecology*. doi:10.1111/mec.14908 (Published)
35. McIntyre, J., J. I. Lundin, J. Cameron, M. Chow, J. W. Davis, J. Incardona, N. L. Scholz. 2018. Interspecies variation in the susceptibility of adult Pacific salmon to toxic urban stormwater runoff. *Environmental Pollution*, 238:196-203. doi:https://doi.org/10.1016/j.envpol.2018.03.012
36. Meador, J. P., A. Yeh, E. P. Gallagher. 2018. Adverse metabolic effects in fish exposed to contaminants of emerging concern in the field and laboratory. *Environmental Pollution*, 236:850-861. doi:10.1016/j.envpol.2018.02.007
37. Nahorniak, M., J. M. Wheaton, C. J. Volk, P. Bailey, M. Reimer, C. E. Wall, K. Whitehead, C. E. Jordan. 2018. How do we efficiently generate high-resolution hydraulic models at large numbers of riverine reaches?. *Computers and Geosciences*.
38. Naman, S. M., J. S. Rosenfeld, P. M. Kiffney, J. S. Richardson. 2018. The energetic consequences of habitat structure for forest stream salmonids. *Journal of Animal Ecology*. doi:https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2656.12845
39. Ohlberger, J., E. J. Ward, B. Lewis, D. E. Schindler. 2018. Demographic changes in Chinook salmon across the Northeast Pacific Ocean. *Fish and Fisheries*.
40. Peter, K. T., Z. Tian, C. Wu, P. Lin, S. White, B. Du, J. McIntyre, N. L. Scholz, E. P. Kolodziej. 2018. Using high-resolution mass spectrometry to identify organic contaminants linked to an urban stormwater mortality syndrome in coho salmon.
41. Quaempts, E. J., K. L. Jones, S. J. O'Daniel, T. J. Beechie, G. C. Poole. 2018. Aligning environmental management with ecosystem resilience: a First Foods example from the Confederated Tribes of the Umatilla Indian Reservation, Oregon, USA. *Ecology and Society*, 23(2):29. doi:doi.org/10.5751/ES-10080-230229
42. Richerson, K., J. L. Leonard, D. S. Holland. 2018. Predicting the economic impacts of the 2017 West Coast salmon troll ocean fishery closure. *Marine Policy*.

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43. Roni, P., P. Anders, T. J. Beechie, D. J. Kaplowe. 2018. Review of tools for identifying, planning and implementing habitat restoration for Pacific salmon and Steelhead. *North American Journal of Fisheries Management*.
44. Saunders, W. C., N. Bouwes, P. A. McHugh, C. E. Jordan. 2018. A network model for primary production highlights linkages between riverine fish populations and autochthonous resources. *Ecosphere*.
45. Seixas, G. B., T. J. Beechie, C. Fogel, P. M. Kiffney. 2018. Influence of channel width on stream shade and temperature change in a forested catchment. *Journal of American Water Resources Association*.
46. Steel, E. A., A. Marsha, A. H. Fullerton, J. D. Olden, N. Larkin, S. Y. Lee, A. Ferguson. 2018. Thermal landscapes in a changing climate: biological implications of water temperature patterns in an extreme year. *Canadian Journal of Fisheries and Aquatic Sciences*. doi:<https://doi.org/10.1139/cjfas-2018-0244>
47. Tatara, C.P., Larsen, D.A., Cooper, M.R., Swanson, P. Middleton, M.A., Dickey, J.T., Harstad, D., Humling, M., Pasley, C.R., and Berejikian, B.A. (accepted) Age-at-release, size, and maturation status influence residualism in hatchery steelhead trout *Oncorhynchus mykiss*. *North American Journal of Fisheries Management*.
48. Tennessen, J. B., M. M. Holt, M. B. Hanson, C. K. Emmons, D. A. Giles, J. T. Hogan. 2019. Kinematic signatures of prey capture from archival tags reveal sex differences in killer whale foraging activity. *Journal of Experimental Biology*.
49. Thom, R. M., S. A. Breithaupt, H. L. Diefenderfer, A. Borde, G. C. Roegner, G. Johnson, D. L. Woodruff. 2018. Storm-Driven Particulate Organic Matter Flux Connects a Tidal Tributary Floodplain Wetland, Main Stem River, and Estuary. *Ecological Applications*. doi:DOI:10.1002/eap.1759
50. Waters, C. D., J. J. Hard, M. S. Brieuc, D. E. Fast, K. I. Warheit, C. M. Knudsen, W. J. Bosch, K. A. Naish. 2018. Genome-wide association analyses of fitness traits in captive reared Chinook salmon: Applications in evaluating conservation strategies. *Evolutionary Applications*.
51. Williams, CR, Dittman, AH, Andrew, H., McElhany, P, Busch, S., Maher MT, Bammier, TK, MacDonald, J., Gallaher, EP. 2018. Elevated CO2 impairs olfactory mediated natural behavioral responses and gene expression in ocean-phase coho salmon (*Oncorhynchus kisutch*). *Global Change Biology*. DOI:10.1111/gcb.14532
52. Winans, G. A., M. B. Allen, J. Baker, E. Lesko, F. Shrier, B. Strobel, J. M. Myers. 2018. Dam trout: Genetic variability in *O. mykiss* above and below barriers in three Columbia River systems prior to restoring migrational access. *PLoS ONE*.
53. Rub AMW, Som NA, Henderson MJ, *et al.* (2019) Changes in adult Chinook salmon (*Oncorhynchus tshawytscha*) survival within the lower Columbia River amid increasing pinniped abundance. *Canadian Journal of Fisheries and Aquatic Sciences*.

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54. Adelfio, Luca A., Steve M. Wondzell, Nathan J. Mantua, and Gordon H. Reeves. In press. Warm winters reduce landscape-scale variability in the duration of egg incubation for Coho salmon (*Oncorhynchus kisutch*) on the Copper River Delta, Alaska. *Canadian Journal of Fisheries and Aquatic Sciences*. <https://doi.org/10.1139/cjfas-2018-0152>
55. Bond, Rosealea M., Colin L. Nicol, Joseph D. Kiernan, and Brian C. Spence. 2019. Occurrence, fate, and confounding influence of ghost passive integrated transponder tags in an intensively monitored watershed. *Canadian Journal of Fisheries and Aquatic Sciences* 76(2):286-298.
56. Bradbury, Ian R., Brendan F. Wringe, Beth Watson, Ian Paterson, John Horne, Robert Beiko, Sarah J. Lehnert, Marie Clement, Eric C. Anderson, Nicholas W. Jeffery, Steven Duffy, Emma Sylvester, Martha Robertson, and Paul Bentzen. 2018. Genotyping-by-sequencing of genome-wide microsatellite loci reveals fine-scale harvest composition in a coastal Atlantic salmon fishery. *Evolutionary Applications* 11(6):918-930.
57. Cordoleani, Flora, Jeremy Notch, Alex S. McHuron, Arnold J. Ammann, and Cyril J. Michel. 2018. Movement and survival of wild Chinook Salmon smolts from Butte Creek during their out-migration to the ocean: comparison of a dry year versus a wet year. *Transactions of the American Fisheries Society* 147(1):171-184.
58. Daniels, Miles E., Vamsi K. Sridharan, Sara N. John, and Eric M. Danner. 2018. Calibration and validation of linked water temperature models for the Shasta Reservoir and the Sacramento River from 2000 to 2015. NOAA Technical Memorandum NMFS-SWFSC-597. 60 p.
59. Dudley, Peter N. 2018. A salmonid individual-based model as a proposed decision support tool for management of a large regulated river. *Ecosphere* 9(1):e02074 (17 p.).
60. Dudley, Peter N. In press. S4: A spatially continuous, individual-based model of salmonid redd superimposition. *Transactions of the American Fisheries Society*.
61. Gao, Guangtu, Torfinn Nome, Devon E. Pearse, Thomas Moen, Kerry A. Naish, Gary H. Thorgaard, Sigbjorn Lien, and Yniv Palti. 2018. A new single nucleotide polymorphism database for rainbow trout generated through whole genome resequencing. *Frontiers in Genetics* 9:147 (11 p.).
62. Goertler, Pascale A.L., Ted R. Sommer, William H. Satterthwaite, and Brian M. Schreier. 2018. Seasonal floodplain-tidal slough complex supports size variation for juvenile Chinook salmon (*Oncorhynchus tshawytscha*). *Ecology of Freshwater Fish* 27(2):580-593.
63. Halley, John M., Kyle S. Van Houtan, and Nate Mantua. 2018. How survival curves affect populations' vulnerability to climate change. *PLoS ONE* 13(9):e0203124 (18 p.).
64. Harrison, Lee R., Amy E. East, Douglas P. Smith, Joshua B. Logan, Rosealea M. Bond, Colin L. Nicol, Thomas H. Williams, David A. Boughton, Kaitlyn Chow, and Lauren Luna. 2018. River response to large-dam removal in a Mediterranean hydroclimatic setting: Carmel River, California, USA. *Earth Surface Processes and Landforms* 43(15):3009-3021.
65. Jacox, Michael G., Michael A. Alexander, Nathan J. Mantua, James D. Scott, Gaelle Hervieux, Robert S. Webb, and Francisco E. Werner. 2018. Forcing of multiyear extreme ocean temperatures that impacted California Current living marine resources in 2016. *Bulletin of the American Meteorological Society* 99(1, supp.):S27-S33.
66. Kosaka, R., and S. Steinback. 2018. 2012 National Ocean Recreation Expenditure Survey. NOAA Technical Memorandum NMFS-F/SPO-185. 102 p.
67. Michel, Cyril J. In press. Decoupling outmigration from marine survival indicates outsized influence of streamflow on cohort success for California's Chinook salmon population. *Canadian Journal of Fisheries and Aquatic Sciences*. <https://doi.org/10.1139/cjfas-2018-0140>

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68. Michel, C.J., J.M. Smith, N.J. Demetras, D.D. Huff, and S.A. Hayes. In press. Non-native fish predator density and molecular-based diet estimates suggest differing impacts of predator species on juvenile salmon in the San Joaquin River, California. *San Francisco Estuary and Watershed Science*.
69. Moran, Benjamin M., and Eric C. Anderson. In press. Bayesian inference from the conditional genetic stock identification model. *Canadian Journal of Fisheries and Aquatic Sciences*. <https://doi.org/10.1139/cjfas-2018-0016>
70. Munch, Stephan B., Alfredo Giron-Nava, and George Sugihara. 2018. Nonlinear dynamics and noise in fisheries recruitment: A global meta-analysis. *Fish and Fisheries* 19(6):964-973.
71. O'Farrell, Michael R., William H. Satterthwaite, Albert N. Hendrix, and Michael S. Mohr. In press. Alternative juvenile production estimate (JPE) forecast approaches for Sacramento River winter Chinook salmon. *San Francisco Estuary and Watershed Science*.
72. Osterback, Ann-Marie K., Cynthia H. Kern, Emerson A. Kanawi, Jeffrey M. Perez, and Joseph D. Kiernan. 2018. The effects of early sandbar formation on the abundance and ecology of coho salmon (*Oncorhynchus kisutch*) and steelhead trout (*Oncorhynchus mykiss*) in a central California coastal lagoon. *Canadian Journal of Fisheries and Aquatic Sciences* 75(12):2184-2197.
73. Perry, Russell W., Adam C. Pope, Jason G. Romine, Patricia L. Brandes, Jon R. Burau, Aaron R. Blake, Arnold J. Ammann, and Cyril J. Michel. 2018. Flow-mediated effects on travel time, routing, and survival of juvenile Chinook salmon in a spatially complex, tidally forced river delta. *Canadian Journal of Fisheries and Aquatic Sciences* 75(11):1886-1901.
74. Phillis, Corey C., Anna M. Sturrock, Rachel C. Johnson, and Peter K. Weber. 2018. Endangered winter-run Chinook salmon rely on diverse rearing habitats in a highly altered landscape. *Biological Conservation* 217:358-362.
75. Rundio, David E., and Steven T. Lindley. 2019. Diet variability of steelhead/Rainbow Trout in a coastal basin in central California: relative importance of seasonal, spatial, and ontogenetic variation. *Transactions of the American Fisheries Society* 148(1):88-105.
76. Satterthwaite, William H., and Michael R. O'Farrell. 2018. Inferred ocean distributions of genetically similar Chinook salmon stocks compared across run timing and river/hatchery of origin. *Fisheries Research* 199:171-176.
77. Satterthwaite, William H., Flora Cordoleani, Michael R. O'Farrell, Brett Kormos, and Michael S. Mohr. 2018. Central Valley spring-run Chinook Salmon and ocean fisheries: data availability and management possibilities. *San Francisco Estuary & Watershed Science* 16(1):4 (23 p.).
78. Sabal, Megan C., Cyril J. Michel, Joseph M. Smith, Andrew Hampton, and Sean A. Hayes. In press. Seasonal movement patterns of striped bass (*Morone saxatilis*) in their nonnative range. *Estuaries and Coasts*. <https://doi.org/10.1007/s12237-018-0467-7>
79. Speir, Cameron, Aaron Mamula, and Michael S. Mohr. 2018. Projected utility rate impacts associated with fish passage investments on the Tuolumne River. NOAA Technical Memorandum NMFS-SWFSC-606. 13 p.
80. Speir, Cameron, Aaron Mamula, and Michael S. Mohr. 2018. Projected utility rate impacts associated with fish passage investments on the Tuolumne River. NOAA Technical Memorandum NMFS-SWFSC-606. 13 p.
81. Vincenzi, Simone, Dusan Jesensek, John Carlos Garza, and Alan J. Crivelli. In press. Stronger effects of heterozygosity on survival in harsher environments. *Journal of Fish Biology*. <https://doi.org/10.1111/jfb.13827>
82. Vincenzi, Simone, Alan J. Crivelli, Dusan Jesensek, Ellen Campbell, and John Carlos Garza. In press. Effects of species invasion on population dynamics, vital rates, and life histories of the native species. *Population Ecology*.

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83. Willmes, Malte, James A. Hobbs, Anna M. Sturrock, Zachary Bess, Levi S. Lewis, Justin J.G. Glessner, Rachel C. Johnson, Ryon Kurth, and Jason Kindopp. 2018. Fishery collapse, recovery, and the cryptic decline of wild salmon on a major California river. *Canadian Journal of Fisheries and Aquatic Sciences* 75(11):1836-1848.
84. Wringe, Brendan F., Eric C. Anderson, Nicholas W. Jeffery, Ryan R.E. Stanley, and Ian R. Bradbury. In press. Development and evaluation of SNP panels for the detection of hybridization between wild and escaped Atlantic salmon (*Salmo salar*) in the West Atlantic. *Canadian Journal of Fisheries and Aquatic Sciences*. <https://doi.org/10.1139/cjfas-2017-0394>