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本収書報告は2020年に収集した文献，単行書等を収録したものです。収録文献は，下記領域・分野に分類してあります。

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文 献

発電所関連

- 池谷 毅(2019). 日本人の健康を支える水産資源(第10回)洋上風力発電の現状と将来. 食品と容器, 60(8): 480-486. S50542
- 太田雅隆(1987). 温排水による海藻植生の変化について. 藻類, 35(1): 74-75. S50274
- 尾羽秀晃・風間健太郎・橋本啓史・永井雄宇・朝野賢司(2020). 洋上風力発電の促進区域選定における海鳥への影響評価に関する考察. 電力中央研究所 研究資料, No. Y19506: i-v + 1-62. S50644
- 金子憲一・二瓶泰範(2020). 浮体式洋上垂直軸型風力タービンの利用を目的とした湾内環境改善に関する基礎実験—螺旋ポンプを使用した場合の一考察—. 実験力学, 19(4): 313-316. S50869
- 桐原慎二(2020). 洋上風力発電に対する青森県漁業者の意向についてのアンケート調査. 水産工学, 57(2): 65-72. S50853
- 工藤貴史(2020). 海洋政策の新たな展開と海洋利用秩序の改編—地球環境保全と洋上風力発電による漁場利用への影響—. 漁業経済研究, 63(2)・64(1): 41-56. S50534
- 佐藤夕夏・赤坂卓美・藪原佑樹・風間健太郎・河口洋一(2020). 北海道根室落石で繁殖するオオセグロカモメを対象とした洋上風力発電センシティブティマップ. 保全生態学研究, 25(2): 1928. S50870
- 眞道幸司・吉川貴志・渡邊幸彦・野方靖行・芳村 毅(2020). 海洋設置設備・構造物の汚損実態と防汚対策. 2020年度日本付着生物学会オンラインシンポジウム「海洋利用と生物付着の制御」発表資料. S50788
- 中島 茂・三木 周(2020). 自立型無人潜水機・水中ドローン等を利用した海洋調査. 環境アセスメント学会誌, 18(2): 10-13. S50680
- 中田英昭(2020). 洋上風車の魚礁としての利用可能性と課題: 欧州の研究事例を中心に. 漁港漁場漁村研報, 47: 10-14. S50689
- 西 隆一郎(2020). 環境調査でのドローン応用に関する検討. 環境アセスメント学会誌, 18(2): 14-19. S50681
- 野方靖行・原 猛也(2020). 発電所における海生生物対策技術とその適用 [2] 海生付着生物の検出技術. 火力原子力発電, 71(9): 381-387. S50726
- 原 猛也・野方靖行(2020). 発電所における海生生物対策技術とその適用 [1] 海水系統へのクラゲ流入対策. 火力原子力発電, 71(7): 275-279. S50616
- 三浦雅大・山本正之・瀬戸熊卓見・土田修二(2020). 発電所温排水放水口に蟻集する魚類の一種ギンガメアジ *Caranx sexfasciatus* の温度耐性・選好性. 海洋生物環境研究所研究報告, No. 25: 41-51. S50388
- 森 貴久・田尻浩伸・手嶋洋子・山本誉士[神子元島カムムリウミスズメ調査グルー

- ブ] (2020). 神子元島で繁殖するカムリウミスズメの採餌域のバイオリギングによる解明. 自然保護助成基金助成成果報告書, 29: 223-230. S50793
- 山本啓之 (2020). 新たな技術による海洋生物群集の調査観測と環境影響評価. 物理探査, 73: 53-63. S50806
- 吉田毅朗 (2020). 潮流・海流発電の影響評価に関する研究や潮流と魚類生態の関係に関する研究等の業績. 環境アセスメント学会誌, 18(1): 50-51. S50331
- Abhinav, K. A., Collu, M., Benjamins, S., Cai, H., Hughes, A., Jiang, B., Jude, S., Leithead, W., Lin, C., Liu, H., Recalde-Camacho, L., Serpetti, N., Sun, K., Wilson, B., Yue, H., & Zhou, B. (2020). Offshore multi-purpose platforms for a Blue Growth: A technological, environmental and socio-economic review. *Science of The Total Environment*, 734: 138256. S50653
- Aldersey-Williams, J., Broadent, I. D. & Strachan, P. A. (2020). Analysis of United Kingdom offshore wind farm performance using public data: Improving the evidence base for policymaking. *Utilities Policy*, 62: 100985. S50304
- Allen S., Banks, A., Caldow, R., Frayling, T., Kershaw, M. & Rowell, H. (2020). Chapter 29- Developments in understanding of red-throated diver responses to offshore wind farms in marine Special Protection Areas. *Marine Protected Areas: Science, Policy and Management*: 573-586. S50313
- Almeida, L. P. & Coolen, J. W. P. (2020). Modelling thickness variations of macrofouling communities on offshore platforms in the Dutch North Sea. *Journal of Sea Research*, 156: 101836. S50396
- Amaral, J., Vigness-Raposa, K., Miller, J. H., Potty, G. R., Newhall, A. & Lin, Y.-T. (2020). The underwater sound from offshore wind farms. *Acoustics Today*, 16(2): 13-21. S50751
- Amara, J. L., Miller, J. H., Potty, G. R., Vigness-Raposa, K. J., Frankel, A. S., Lin, Y., Newhall, A. E., Wilkes, D. R. & Garvilov, A. N. (2020). Characterization of impact pile driving signals during installation of offshore wind turbine foundations. *The Journal of the Acoustical Society of America*, 147(4): 2323-2333. S50758
- Banach, J. L., van den Burg, S. W. K. & van der Fels-Klerx, H. J. (2020). Food safety during seaweed cultivation at offshore wind farms: An exploratory study in the North Sea. *Marine Policy*, 120: 104082. S50668
- Barbut, L., Vastenhoud, B., Vigin, L., Degraer, S., Volckaert, F. A. M. & Lacroix, G. (2020). The proportion of flatfish recruitment in the North Sea potentially affected by offshore windfarms. *ICES Journal of Marine Science*, 77(2): 1227-1237. S50523
- Barnhouse, L. W., Fietsch, C. L. & Snider, D. (2019). Quantifying restoration offsets at a nuclear power plant in Canada. *Environmental Management*, 64: 593-607. S50305
- Batley, G. E. & Simpson, S. L. (2020). Short-term guideline values for chlorine in marine waters. *Environmental Toxicology and Chemistry*, 39(4): 754-764. S50425

- Castro-Santos, L., Lamas-Galdo, M. I. & Filgueira-Vizoso, A. (2020). Managing the oceans: Site selection of a floating offshore wind farm based on GIS spatial analysis. *Marine Policy*, 113: 103803. S50314
- Copping, A. E. (2020). Marine renewable energy and ocean energy systems. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 1-17. S50759
- Copping, A. E. (2020). Marine renewable energy: environmental effects and monitoring strategies. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 18-26. S50760
- Copping, A. E., Freeman, M. C., Gorton, A. M. & Hemery, L. G. (2020). Risk retirement and data transferability for marine renewable energy. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 262-278. S50769
- Cui, Y., Xu, D. Y., Liu, Z. L., & Ross, D. (2020). Global research and trends in renewable energy: Ocean waves, tidal energy and offshore wind. *Journal of Coastal Research*, 95: 1485-1489. S50755
- Dannheim, J., Bergström, L., Birchenough, S. N. R., Brzana, R., Boon, A. R., Coolen, J. W. P., Dauvin, J.-C., Mesel, I. D., Derweduwen, J., Gill, A. B., Hutchison, Z. L., Jackson, A. C., Janas, U., Martin, G., Raoux, A., Reubens, J., Rostin, L., Vanaverbeke, J., Wilding, T. A., Wilhelmsson, D. & Degraer, S. (2020). Benthic effects of offshore renewables: identification of knowledge gaps and urgently needed research. *ICES Journal of Marine Science*, 77(3): 1092–1108. S50489
- Daz, H. & Soares, C. G. (2020). Review of the current status, technology and future trends of offshore wind farms. *Oceanic Engineering*, 209: 107381. S50750
- Deabes, E. A. M. (2020). The impact of thermal power stations on coastline and benthic fauna: Case study of El-Burullus power plant in Egypt. *Results in Engineering*, 7: 100128. S50790
- Falavigna, T. J., Pereira, D., Rippei, M. L. & Petry, M. V. (2020). Changes in bird species composition after a wind farm installation: A case study in South America. *Environmental Impact Assessment Review*, 83: 106387. S50558
- Farshchi, M., Nasrolahi, A. & Shokri, M. R. (2020). Variability in benthic invertebrate community structure near warm water effluents of a power plant in the southern Caspian Sea. *Regional Studies in Marine Science*, 40: 101507. S50831
- Franco, E. D., Pierson, P., Iorio, L. D., Calò, A., Cottalorda, J. M., Derijard, B., Franco, A. D., Galvé, A., Guibbolini, M., Lebrun, J., Micheli, F., Priouzeau, F., Faverney, C. R., Rossi, F., Sabourault, C., Spennato, G., Verrando, P. & Guidetti, P. (2020). Effects of marine noise pollution on Mediterranean fishes and invertebrates: A review. *Marine Pollution Bulletin*, 159: 111450.

S50647

- Freeman, M. C. (2020). Social and economic data collection for marine renewable energy. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 154-174. S50766
- Garavelli, L. (2020). Encounters of marine animals with marine renewable energy device mooring systems and subsea cables. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 146-153. S50765
- Gil-Garcia, I. C., Garcia-Cascales, M. S., Fernandez-Guillamon, A. & Molina-Garcia, A. (2019). Categorization and analysis of relevant factors for optimal locations in onshore and offshore wind power plants: A taxonomic review. *Journal of Marine Science and Engineering*, 7(11): 391. S50323
- Gill, A. B. & Desender, M. (2020). Risk to animals from electromagnetic fields emitted by electric cables and marine renewable energy devices. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 86-103. S50763
- Glarou, M., Zrust, M. & Svendsen, J. C. (2020). Using artificial-reef knowledge to enhance the ecological function of offshore wind turbine foundations: Implications for fish abundance and diversity. *Journal of Marine Science and Engineering*, 8(5): 332. S50548
- Guarinello, M. L. & Carey, D. A. (2020). Multi-modal approach for benthic impact assessments in moraine habitats: a case study at the Block Island wind farm. *Estuaries and Coasts*, 385: 1-16. S50752
- Hall, R., Joo, E. & Knapp, C. W. (2020). Environmental impacts of decommissioning: Onshore versus offshore wind farms. *Environmental Impact Assessment Review*, 83: 106404. S50557
- Haraldsson, M., Raoux, A., Riera, F., Hay, J., Dambacher, J.M. and Niquil, N. (2020). How to model social-ecological systems? – A case study on the effects of a future offshore wind farm on the local society and ecosystem, and whether social compensation matters. *Marine Policy*, 119: 104031. S50583
- Hasselmann, D. J., Barclay, D. R., Cavagnaro, R. J., Chandler, C., Cotter, E., Gillespie, D. M., Hastie, G. D., Horne, J. K., Joslin, J., Long, C., McGarry, L. P., Mueller, R. R., Sparling, C. E. & Williamson, B. J. (2020). Environmental monitoring technologies and techniques for detecting interactions of marine animals with turbines. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 176-212. S50767
- Heinnen, S., Žydelis, R., Kleinschmidt, B., Dorsch, M., Burger, C., Morknas, J., Quillfeldt, P. & Nehl

- G. (2020). Satellite telemetry and digital aerial surveys show strong displacement of red-throated divers (*Gavia stellata*) from offshore wind farms. *Marine Environmental Research*, 160: 104989. S50600
- Hemery, L. G. (2020). Changes in benthic and pelagic habitats caused by marine renewable energy devices. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 104-125. S50764
- Hung, P.-Y. (2020). Placing green energy in the sea: Offshore wind farms, dolphins, oysters, and the territorial politics of the intertidal zone in Taiwan. *Annals of the American Association of Geographers*, 110(1): 56-77. S50302
- Jones, I. T., Stanley, J. A. & Mooney, T. A. (2020). Impulsive pile driving noise elicits alarm responses in squid (*Doryteuthis pealeii*). *Marine Pollution Bulletin*, 150: 110792. S50394
- Karama, K. S., Matsushita, Y., Inoue, M., Kojima, K., Tone, K., Nakamura, I. & Kawabe, R. (2020). Movement pattern of red seabream *Pagrus major* and yellowtail *Seriola quinqueradiata* around offshore wind turbine and the neighboring habitats in the waters near Goto Islands, Japan. *Aquaculture and Fisheries*, doi.org/10.1016/j.aaf.2020.04.005. S50549
- Krägefsky, S. (2014). Effects of the *alpha ventus* offshore test site on pelagic fish. In "Ecological research at the offshore windfarm alpha ventus" (eds. Federal Maritime and Hydrographic Agency, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety), Springer Spektrum, Wiesbaden, 83-94. S50262
- Krone, R., Dederer, G., Kanstinger, P., Krmer, P., Schneider, C. & Schmalenbach, I. (2017). Mobile demersal megafauna at common offshore wind turbine foundations in the German Bight (North Sea) two years after deployment - increased production rate of *Cancer pagurus*. *Marine Environmental Research*, 123: 53-61. S50316
- Lan, W.-R., Huang, X.-G., Lin, L.-X., Li, S.-X. & Liu, F.-J. (2020). Thermal discharge influences the bioaccumulation and bioavailability of metals in oysters: Implications of ocean warming. *Environmental Pollution*, 259: 113821. S50295
- Lane, J. V., Jeavons, R., Deakin, Z., Sherley, R. B., Pollock, C. J., Wanless, R. J. & Hamer, K. C. (2020). Vulnerability of northern gannets to offshore wind farms; seasonal and sex-specific collision risk and demographic consequences. *Marine Environmental Research*, 162: 105196. S50777
- Le Livre, C. (2020). Adaptive management related to maritime renewable energy. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 242-261. S50768
- Le Visage, C., Dupont, C. & Herpers, F. (2020). Recommendations for positive interactions between

- offshore wind farms and fisheries. European Commission, Brussels, 22pp. S50910
- Lu, Z., Zhan, X., Guo, Y. & Ma, L. (2020). Small-scale effects of offshore wind-turbine foundations on macrobenthic assemblages in Pinghai Bay, China. *Journal of Coastal Research*, 36(1): 139-147. S50311
- Masuda, R. (2020). Tropical fishes vanished after the operation of a nuclear power plant was suspended in the Sea of Japan. *PLoS ONE*, 15(5): 232065. S50488
- May, R., Middel, H., Stokke, B. G., Jackson, C. & Verones, F. (2020). Global life-cycle impacts of onshore wind-power plants on bird richness. *Environmental and Sustainability Indicators*, 8: 100080. S50778
- Methratta, E. T. (2020). Monitoring fisheries resources at offshore wind farms: BACI vs. BAG designs. *ICES Journal of Marine Science*, 77(3): 890-900. S50399
- Mizuta, D. D. & Wikfors, G. H. (2020). Can offshore HABs hinder the development of offshore mussel aquaculture in the northeast United States? *Ocean & Coastal Management*, 183: 105022. S50303
- Mueller, C., Monczak, A., Soueidan, J., McKinney, B., Smott, S., Mills, T., Ji, Y. & Montie, E. W. (2020). Sound characterization and fine-scale spatial mapping of an estuarine soundscape in the southeastern USA. *Marine Ecology Progress Series*, 645: 1-23. S50586
- Negro, V., Del Campo, J. M., Luengo Frades, J., Martn Antn, M., Esteban, M. D., Lpez- Gutierrez, J. S. & Soukissian, T. (2020). Impact of offshore wind farms on marine ecosystems, pelagic species and fishing. *Journal of Coastal Research*, 95(1): 118-122. S50556
- Niquil N., Raoux, A., Haraldsson, M., Aраignous, E., Halouani, G., Leroy, B., Safi, G., Nogus, Q., Granger, K., Dauvin, J., Riera, F., Maz, C., Le Loc'h, F., Villanueva, M.C., Hattab, T., Bourdaud, P., Champagnat, J. & Lasram, F. B. R. (2020). Toward an ecosystem approach of marine renewable energy: The case of the offshore wind farm of Courseulles-sur-Mer in the Bay of Seine. In "Estuaries and coastal zones in times of global change" (eds. Nguyen, K., Guillou, S., Gourbesville, P. & Thiébot, J.), Springer, Singapore, 137-148. S50599
- Ohshiro, K. & Fujimori, S. (2020). Stranded investment associated with rapid energy system changes under the mid-century strategy in Japan. *Sustainability Science*, 1-11. S50723
- Peschko, V., Mendel, B., Miller, S., Markones, N., Mercker, M. & Garthe, S. (2020). Effects of offshore windfarms on seabird abundance: Strong effects in spring and in the breeding season. *Marine Environmental Research*, 162: 105157. S50776
- Peschko, V., Mercker, M. & Garthe, S. (2020). Telemetry reveals strong effects of offshore wind farms on behaviour and habitat use of common guillemots (*Uria aalge*) during the breeding season. *Marine Biology*, 167: 118. S50719
- Pezy, J.-P., Raoux, A. & Dauvin, J.-C. (2020). An ecosystem approach for studying the impact of offshore wind farms: a French case study. *ICES Journal of Marine Science*, 77(3): 1238–1246.

S50524

- Pezy, J.-P., Raoux, A. & Dauvin, J.-C. (2020). The environmental impact from an offshore windfarm: Challenge and evaluation methodology based on an ecosystem approach. *Ecological Indicators*, 114: 106302. S50377
- Polagye, B. & Bassett, C. (2020). Risk to marine animals from underwater noise generated by marine renewable energy devices. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 66-85. S50762
- Raoux, A., Tecchio, S., Pezy, J.-P., Lassalle, G., Degraer, S., Wilhelmsson, D., Cachera, M., Ernande, B., Le Guen, C., Haraldsson, M., Granger, K., Le Loc'h, F., Dauvin, J.-C. & Niquil, N. (2017). Benthic and fish aggregation inside an offshore wind farm: Which effects on the trophic web functioning? *Ecological Indicators*, 72: 33-46. S50315
- Roach, M., Cohen, M., Forster, R., Reville, A. S. & Johnson, M. (2018). The effects of temporary exclusion of activity due to wind farm construction on a lobster (*Homarus gammarus*) fishery suggests a potential management approach. *ICES Journal of Marine Science*, 75(4): 1416-1426. S50422
- Roberts, L. & Elliott, M. (2017). Good or bad vibrations? Impacts of anthropogenic vibration on the marine epibenthos. *Science of the Total Environment*, 595: 255-268. S50392
- Schaffeld, T., Schnitzler, J. G., Ruser, A., Woelfing, B., Baltzer, J. & Siebert, U. (2020). Effects of multiple exposures to pile driving noise on harbor porpoise hearing during simulated flights - An evaluation tool. *The Journal of the Acoustical Society of America*, 147(2): 685-697. S50397
- Slavik, K., Lemmen, C., Zhang, W. Y., Kerimoglu, O., Klingbeil, K. & Wirtz, K. W. (2019). The large-scale impact of offshore wind farm structures on pelagic primary productivity in the southern North Sea. *Hydrobiologia*, 845: 35-53. S50312
- Soares, C., Pacheco, A., Zabel, F., Gonzalez-Gobera, E. & Sequeira, C. (2020). Baseline assessment of underwater noise in the Ria Formosa. *Marine Pollution Bulletin*, 150: 110731. S50395
- Sparling, C. E., Seitz, A. C., Masden, E. & Smith., K. (2020). Collision risk for animals around turbines. OES-Environmental 2020 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World. Report for Ocean Energy Systems (OES), 28-65. S50761
- Taormina, B., Laurans, M., Marzloff, M. P., Dufournaud, N., Lejart, M., Desroy, N., Leroy, D., Martin, S. & Carlier, A. (2020). Renewable energy homes for marine life: Habitat potential of a tidal energy project for benthic megafauna. *Marine Environmental Research*, 161: 105131. S50781
- Todd, V. L. G., Williamson, L. D., Cox, S. E., Todd, I. B. & Macreadie, P. I. (2019). Characterizing the first wave of fish and invertebrate colonization on a new offshore petroleum platform. *ICES Journal of Marine Science*, 77(3): 1127-1136. S50307

- Tougaard, J., Hermannsen, L. & Madsen, P. T. (2020). How loud is the underwater noise from operating offshore wind turbines? *The Journal of the Acoustical Society of America*, 148(5): 2885-2893. S50871
- Ushiyama, I. (2020). Wind energy programme in Japan. *In* “The Age of wind energy, innovative renewable energy” (eds. Sayigh, A. and Milborow, D.), Springer Nature, Switzerland, 41-62. S50376
- van den Burg, S. W. K., Rckmann, C., Banach, J. L. & van Hoof, L. (2020). Governing risks of multi-use: Seaweed aquaculture at offshore wind farms. *Frontiers in Marine Sciences*, 7: 60. S50398
- Vanermen, N., Courtens, W., Daelemans, R., Lens, L., Miller, W., Van de walle, M., Verstraete, H. & Stienen, W. W. M. (2020). Attracted to the outside: a meso-scale response pattern of lesser black-backed gulls at an offshore wind farm revealed by GPS telemetry. *ICES Journal of Marine Science*, 77(3): 701–710. S50522
- Wang, C. & Chien, K. (2020). Mapping the subaquatic animals in the Aquatocene: Offshore wind power, the materialities of the sea and animal soundscapes. *Political Geography*, 83: 102285. S50754
- Wang, J., Tao, Z., Wang, Y., Wei, H., Liu, X. & Li, C. (2020). Effects of Liaoning Hongyanhe Nuclear Power Plant on the zooplankton community in summer of 2017. *Journal of Ocean University of China*, 19: 1140–1152. S50807

放射能関連

- 青野辰雄・神林翔太・浜島大輝・高橋博路・山崎慎之介・山村 充・山田 裕(2020). 森林集水域における放射性セシウムの濃度変動について. *Proceedings of the 21st Workshop on Environmental Radioactivity*, 122-126. S50851
- 青野辰雄・神林翔太・浜島大輝・高橋博路・山崎慎之介・山村 充・山田 裕(2020). 森林集水域における溶存態放射性セシウムの濃度変動について. 第 21 回「環境放射能」研究会 発表資料. S50427
- 石川陽一・小笠原一孝・小野原清志・伊藤節男・高群富貴・高橋正人・澤田晃宏・安藤孝志(2020). 海洋放射能汚染指標海産生物としてのアラメその他の褐藻の特性. *Proceedings of the 21st Workshop on Environmental Radioactivity*, 133-140. S50911
- 植田真司・柿内秀樹・久松俊一(2020). 汽水—沿岸域における水生生物の ¹²⁹I 濃度について. *Proceedings of the 21st Workshop on Environmental Radioactivity*, 116-121. S50912
- 小笠原一孝・高群富貴・畠山紀子・石川陽一・高橋正人・安藤孝志(2020). 環境放射能調査における新たな指標海産物の検討. 宮城県環境放射線監視センター年報, 4(2018): 15-20. S50414

- 乙坂重嘉・御園生敏治・土肥輝美・鶴田忠彦・高橋嘉夫・杉原奈央子・小畑 元・池上隆仁・自見直人・波々伯部夏美(2020). 福島沖合の陸棚底層における粒子態 ^{137}Cs の輸送と蓄積：有機物粒子と底生生物の役割. 2020 年度日本海洋学会秋季大会講演要旨集, 20F-03-14. S50832
- 川口勇生(2020). ヒト以外の生物の放射線防護の枠組みの現状と課題. 保健物理, 55(1): 23-31. S50876
- 工藤なつみ・及川真司・日下部正志(2020). 日本沿岸域における海底土の ^{137}Cs 放射能濃度と化学的及び物理的要素との相関分析. 分析化学, 69(10・11): 599-606. S50745
- 信濃卓郎・和田敏裕(2020). 農水産における放射性セシウムの長期環境動態と将来予測－農業現場と水産現場から－. *Radioisotopes*, 69(1): 31-42. S50866
- 高田兵衛・稲富直彦・工藤なつみ(2020). 利根川を対象とした河川から海洋への放射性 Cs フラックス. *海洋と生物*, 42(3): 287-293. S50578
- 玉利俊哉・島 長義・百島則幸(2020). 線量評価のための魚介類中トリチウム迅速分析法. 保健物理, 55(3): 136-143. S50868
- 野村健吾・芝 和代・影浦 久・宇高真行・高市恭弘(2020). 伊方発電所周辺における環境試料中の人工放射性核種の挙動. 愛媛県原子力センター所報, 6: 19-26. S50718
- 原 正憲(2020). 放射性物質・水素同位体としてのトリチウムの特性. *プラズマ・核融合学会誌*, 96(6): 305-308. S50867
- 百島則幸・帰山秀樹・及川真司・横田瑞郎(2020). 基調講演「放射能と地球環境」, 東電福島第一原発事故以降の海洋生態系における放射性物質の動態, 海洋環境における放射性物質の推移「海水・海底土について」, 海洋環境における放射性物質の推移「海産生物全般について」. *海洋生物環境研究所研究報告*, No. 25: 61-85. S50577
- 山田正俊(2020). 海洋におけるプルトニウム同位体の挙動について. *日本温泉科学会第73回大会講演資料*, 32-35. S50855
- 四柳宏基・永田優太・鈴木貴博・諏訪成雄(2019). 阿賀野川河口沖を中心とした新潟県沿岸域における海底土中の放射性セシウム濃度とその経年変化. *新潟県放射線監視センター年報*, 17: 25-34. S50410
- 和田浩司・木村芳伸・幸 進・沼山 聡・佐々木耕一(2020). 環境試料中のトリチウム, 炭素-14 及びヨウ素-129・131 調査－平成 30 年度調査結果－. *青森県原子力センター所報*, 14(2019): 73-92. S50487
- Aoyama, M., Inomata, Y. & Hamajima, Y. (2019). Radiocaesium activity concentration in surface water in the East China Sea, the Sea of Japan and western North Pacific since 1953 to 2018. *Geophysical Research Abstracts*, 21: EGU2019-2794-2. S50710
- Aoyama, M., Tsumune, D. & Hamajima, Y. (2013). Distribution of ^{137}Cs and ^{134}Cs in the North Pacific Ocean: impacts of the TEPCO Fukushima-Daiichi NPP accident. *Journal of*

- Radioanalytical and Nuclear Chemistry, 296(1): 535-539. S50267
- Aoyama, M., Tsumune, D., Inomata, Y. & Tateda, Y. (2020). Mass balance and latest fluxes of radiocesium derived from the Fukushima accident in the western North Pacific Ocean and coastal regions of Japan. *Journal of Environmental Radioactivity*, 217: 106206. S50349
- Arai, T. (2020). Accumulation of radioactive caesium in the Japanese eel *Anguilla japonica* in Northeast Japan after the Fukushima nuclear accident. *International Journal of Environmental Studies*, 77(6): 969-982. S50416
- Arakawa, H., Tokai, T., Miyamoto, Y., Akiyama, S., Uchida, K., Matsumoto, A., Narita, M., Myouse, H., Agatsuma, Y., Katayama, S., Aoki, M., Matsumoto, I. & Hirakawa, N. (2015). Distribution of radioactive material in marine ecosystems off the Fukushima coast: Radioactive cesium levels in Fukushima marine organisms. *In "Marine productivity: Perturbations and resilience of socio-ecosystems"* (eds. Ceccaldi, H.-J., Hénocque, Y., Koike, Y., Komatsu, T., Stora, G. and Tusseau-Vuillemin, M.-H.), Springer International Publishing, Switzerland, 71-78. S50268
- Arienzo, M. M., McConnell, J. R., Chellman, N., Criscitiello, A. S., Curran, M., Fritzsche, D., Kipfstuhl, S., Mulvaney, R., Nolan, M., Opel, T., Sigl, M. & Steffensen, J. P. (2016). A method for continuous ^{239}Pu determinations in Arctic and Antarctic ice cores. *Environmental Science & Technology*, 50(13): 7066-7073. S50505
- Beasley, T. M. & Ball, L. A. (1980). $^{243}, ^{244}\text{Cm}$ in Columbia River sediments. *Nature*, 287: 624-625. S50431
- Benninger, L. K. & Dodge, R. E. (1986). Fallout plutonium and natural radionuclides in annual bands of the coral *Montastrea annularis*, St. Croix, U.S. Virgin Islands. *Geochimica et Cosmochimica Acta*, 50(12): 2785-2797. S50495
- Bezhenar, R., Kim, K. O., Maderich, V., de With, G. & Jung, K. T. (2020). Multi-compartment kinetic-allometric model of radionuclide bioaccumulation in marine fish. *Biogeosciences Discussions*, [preprint], doi.org/10.5194/bg-2020-423, in review. S50865
- Bowen, V. T. & Livingston, H. D. (1975). Americium 242m in nuclear test debris. *Nature*, 256: 482. S50263
- Buesseler, K. O. (2020). Opening the floodgates at Fukushima. *Science*, 369(6504): 621-622. S50637
- Buesseler, K. O. & Benitez, C. R. (1994). Determination of mass accumulation rates and sediment radionuclide inventories in the deep Black Sea. *Deep Sea Research Part I: Oceanographic Research Papers*, 41(11-12): 1605-1615. S50502
- Buesseler, K. O., Antia, A. N., Chen, M., Fowler, S. W., Gardner, W. D., Gustafsson, O., Harada, K., Michaels, A. F., van der Loeff, M. R., Sarin, M., Steinberg, D. K. & Trull, T. W. (2007). An assessment of the use of sediment traps for estimating upper ocean particle fluxes. *Journal of Marine Research*, 65(3): 345-416. S50336
- Buesseler, K. O., Kaplan, D. I., Dai, M. & Pike, S. (2009). Source-dependent and source-independent

- controls on plutonium oxidation state and colloid associations in groundwater. *Environmental Science & Technology*, 43(5): 1322-1328. S50339
- Buesseler, K. O., Livingston, H. D. & Sholkovitz, E. R. (1985). $^{239, 240}\text{Pu}$ and excess ^{210}Pb inventories along the shelf and slope of the northeast U.S.A. *Earth and Planetary Science Letters*, 6(1–2): 10-22. S50499
- Buraglio, N., Aldahan, A., Possnert, G. & Vintersved, I. (2001). ^{129}I from the nuclear reprocessing facilities traced in precipitation and runoff in northern Europe. *Environmental Science & Technology*, 35(8): 1579-1586. S50391
- Carpenter, R., Beasley, T. M., Zahnle, D. & Somayajulu, B. L. K. (1987). Cycling of fallout (Pu, ^{241}Am , ^{137}Cs) and natural (U, Th, ^{210}Pb) radionuclides in Washington continental slope sediments. *Geochimica et Cosmochimica Acta*, 51(7): 1897-1921. S50584
- Castrillejo, M., Witbaard, R., Casacuberta, N., Richardson, C. A., Dekker, R., Synal, H.-A. & Christl, M. (2020). Unravelling 5 decades of anthropogenic ^{236}U discharge from nuclear reprocessing plants. *Science of The Total Environment*, 717: 137094. S50728
- Cochran, J. K. (1985). Particle mixing rates in sediments of the eastern equatorial Pacific: Evidence from ^{210}Pb , $^{239, 240}\text{Pu}$ and ^{137}Cs distributions at MANOP sites. *Geochimica et Cosmochimica Acta*, 49(5): 1195-1210. S50498
- Cochran, J. K., Bacon, M. P., Krishnaswami, S. & Turekian, K. K. (1983). ^{210}Po and ^{210}Pb distributions in the central and eastern Indian Ocean. *Earth and Planetary Science Letters*, 65(2): 433-452. S50636
- Cresswell, T., Metian, M., Fisher, N. S., Charmasson, S., Hansman, R. L., Bam, W., Bock, C. & Swarzenski, P.W. (2020). Exploring new frontiers in marine radioisotope tracing – adapting to new opportunities and challenges. *Frontiers in Marine Science*, 7(406): 1-15. S50562
- Cutter, G. A., Brcland, K. W. & Risebrough, R. W. (1979). Deposition and accumulation of plutonium isotopes in Antarctica. *Nature*, 279: 628–629. S50504
- Day, J. P. & Cross, J. E. (1981). ^{241}Am from the decay of ^{241}Pu in the Irish Sea. *Nature*, 292: 43–45. S50494
- Delaval, A., Duffa, C. & Radakovitch, O. (2020). A review on cesium desorption at the freshwater-seawater interface. *Journal of Environmental Radioactivity*, 218: 106255. S50519
- Delvaux, B., Kruyts, N. & Cremers, A. (2000). Rhizospheric mobilization of radiocesium in soils. *Environmental Science & Technology*, 34(8): 1489–1493. S50711
- Doi, H., Takahara, T. & Tanaka, K. (2012). Trophic position and metabolic rate predict the long-term decay process of radioactive cesium in fish: A meta-analysis. *PLoS ONE*, 7: e29295. S50786
- Dorn, D. W. (1962). Mike results - implications for spontaneous fission. *Physical Review*, 126: 693. S50841
- Eriksson, M., Lindahl, P., Roos, P., Dahlgard, H. & Holm, E. (2008). U, Pu, and Am nuclear

- signatures of the Thule hydrogen bomb debris. *Environmental Science & Technology*, 42(13): 4717-4722. S50430
- Fan, Y., Hou, X., Fukuda, M., Zheng, M., Aono, T., Chen, N., Zhang, L. & Zhou, W. (2020). ^{129}I in a sediment core offshore Fukushima: Distribution, source and its implication. *Chemosphere*, 252: 126524. S50415
- Fine, R. A. (1985). Direct evidence using tritium data for throughflow from the Pacific into the Indian Ocean. *Nature*, 315: 478-480. S50661
- Fisher, N. S., Cochran, J. K., Krishnaswami, S. & Livingston, H. D. (1988). Predicting the oceanic flux of radionuclides on sinking biogenic debris. *Nature*, 335: 622-625. S50353
- Fowler, S. W., Buat-Mnard, P., Yokoyama, Y., Ballestra, S., Holm, E. & van Nguyen, H. (1987). Rapid removal of Chernobyl fallout from Mediterranean surface waters by biological activity. *Nature*, 329: 56-58. S50357
- Francis, A. J., Dodge, C. J. & Gillow, J. B. (2008). Reductive dissolution of Pu (IV) by *Clostridium* sp. under anaerobic conditions. *Environmental Science & Technology*, 42(7): 2355-2360. S50842
- Funaki, H., Sakuma, K., Nakanishi, T., Yoshimura, K. & Katengeza, E. W. (2020). Reservoir sediments as a long-term source of dissolved radiocaesium in water system; a mass balance case study of an artificial reservoir in Fukushima, Japan. *Science of the Total Environment*, 743: 140668. S50863
- Gagnaire, B., Arcanjo, C., Cavalie, I., Camilleri, V., Simon, O., Floriani, M., Orjollet, D. & Adam-Guillermin, C. (2020). Tritiated water exposure in Zebrafish (*Danio rerio*): Effects on the early-life stages. *Environmental Toxicology and Chemistry*, 39(3): 648-658. S50375
- Gouzy, A., Boust, D., Connan, O., Billon, G., Vintró, L. L., Lucey, J., Bowden, L., Agarande, M., Lesourd, S., Lesueur, P., Klein, A., Kershaw, P. J. & Mitchell, P. I. (2005). Diagenetic reactivity of the plutonium in marine anoxic sediments (Cumbrian mud patch - eastern Irish Sea). *Radioprotection*, 40: S541-S547. S50845
- Gouzy, A., Boust, D., Connan, O., Klein, A., Rozet, M. & Solier, L. (2005). Post-depositional reactivity of the plutonium in different sediment facies from the English Channel - an experimental approach. *Radioprotection*, 40: S613-S619. S50846
- Hagiwara, H., Konishi, H., Nakanishi, T., Fujiwara, K., Iijima, K. & Kitamura, A. (2020). Mineral composition characteristics of radiocesium sorbed and transported sediments within the Tomioka river basin in Fukushima Prefecture. *Journal of Environmental Radioactivity*, 211: 106042. S50350
- Hamilton, E. I. (1981). α -Particle radioactivity of hot particles from the Esk estuary. *Nature*, 290: 690-693. S50433
- Hamilton-Taylor, J., Kelly, M., Mudge, S. & Bradshaw, K. (1987). Rapid remobilisation of plutonium

- from estuarine sediments. *Journal of Environmental Radioactivity*, 5(6): 409-423. S50500
- Handl, J., Oliver, E., Jakob, D., Johanson, K. J. & Schuller, P. (1993). Biospheric ^{129}I concentrations in the pre-nuclear and nuclear age. *Health Physics*, 65(3): 265-271. S50421
- Hardy, E. P., Krey, P. W. & Volchok, H. L. (1973). Global inventory and distribution of fallout plutonium. *Nature*, 241: 444-445. S50672
- Harms, A., Pham, M. K., Blinova, O., Tarjan, S., Nies, H. & Osvath, I. (2017). IAEA proficiency tests for determination of radionuclides in sea water. *Applied Radiation and Isotopes*, 126: 252-255. S50707
- Higgo, J. J. W. & Rees, L. V. C. (1986). Adsorption of actinides by marine sediments: Effect of the sediment/seawater ratio on the measured distribution ratio. *Environmental Science & Technology*, 20(5): 483-490. S50428
- Higgo, J. J. W., Cherry, R. D., Heyraud, M. & Fowler, S. W. (1977). Rapid removal of plutonium from the oceanic surface layer by zooplankton faecal pellets. *Nature*, 266: 623-624. S50354
- Hirose, K. & Povinec, P. P. (2020). ^{90}Sr and ^{137}Cs as tracers of oceanic eddies in the sea of Japan/East sea. *Journal of Environmental Radioactivity*, 216: 106179. S50348
- Holloway, R. W. & Hayes, D. W. (1982). Mean residence time of plutonium in the troposphere. *Environmental Science & Technology*, 16(2): 127-129. S50360
- Holm, E. (1988). Determination of ^{241}Pu in environmental samples by a radiochemical procedure. *Environment International*, 14(4): 363-365. S50251
- Horiguchi, T., Kodama, K., Kume, G. & Kang, I. J. (2020). Delayed recovery from declines in the population densities and species richness of intertidal invertebrates near Fukushima Daiichi Nuclear Power Plant. In "Low-dose radiation effects on animals and ecosystems," (ed. Fukumoto, M.), Springer, Singapore, 65-88. S50406
- Hou, X., Povinec, P. P., Zhang, L., Shi, K., Biddulph, D., Chang, C.-C., Fan, Y., Golser, R., Hou, Y., Jeskovsky, M., Jull, A. J. T., Liu, Q., Luo, M., Steier, P. & Zhou, W. (2013). Iodine-129 in seawater offshore Fukushima: Distribution, inorganic speciation, sources, and budget. *Environmental Science & Technology*, 47(7): 3091-3098. S50383
- Huang, D., Lin, J., Du, J. & Yu, T. (2020). The detection of Fukushima-derived radiocesium in the Bering Sea and Arctic Ocean six years after the nuclear accident. *Environmental Pollution*, 256: 113386. S50283
- Ikenoue, T., Kusakabe, M., Yamada, M., Oikawa, S. & Misonoo, J. (2020). Temporal variation of iodine-129 concentrations in kelps (*Saccharina*) from coastal waters off northern Japan. *Marine Pollution Bulletin*, 161 Part B: 111775. S50818
- Ikenoue, T., Takehara, M., Morooka, K., Kurihara, E., Takami, R., Ishii, N., Kudo, N. & Utsunomiya, S. (2021). Occurrence of highly radioactive microparticles in the seafloor sediment from the Pacific coast 35 km northeast of the Fukushima Daiichi nuclear power plant. *Chemosphere*, 267:

128907. S50825

- Imai, S., Tani, T., Ishikawa, Y., Tako, Y., Takaku, Y. & Hisamatsu, S. (2020). Short-term metabolism of biologically incorporated ^{125}I ingested by olive flounder (*Paralichthys olivaceus*). *Journal of Environmental Radioactivity*, 214-215: 106161. S50347
- Imanaka, T. (2020). Comparison of radioactivity release and contamination from the Fukushima and Chernobyl Nuclear Power Plant accidents. *In* “Low-dose radiation effects on animals and ecosystems,” (ed. Fukumoto, M.), Springer, Singapore, 249-259. S50409
- Inoue, M., Takehara, R., Takikawa, T., Shirotani, Y., Morita, T., Honda, N. & Nagao, S. (2020). Circulation paths of ^{134}Cs in seawater southwest of Japan in 2018 and 2019. *Journal of Environmental Radioactivity*, 223-224: 106382. S50695
- Ishii, Y., Matsuzaki, S. & Hayashi, S. (2020). Different factors determine ^{137}Cs concentration factors of freshwater fish and aquatic organisms in lake and river ecosystems. *Journal of Environmental Radioactivity*, 213: 106102. S50346
- Iwata, K., Tagami, K. & Uchida, S. (2013). Ecological half-lives of radiocesium in 16 species in marine biota after the TEPCO’s Fukushima Daiichi Nuclear Power Plant accident. *Environmental Science & Technology*, 47(14): 7696–7703. S50712
- Johansen, M. P., Ruedig, E., Tagami, K., Uchida, S., Higley, K. & Beresford, N. A. (2015). Radiological dose rates to marine fish from the Fukushima Daiichi Accident: The first three years across the North Pacific. *Environmental Science & Technology*, 49(3): 1277-1285. S50245
- Kaeriyama, H., Fujimoto, K., Inoue, M. & Minakawa, M. (2020). Radiocesium in Japan Sea associated with sinking particles from Fukushima Dai-ichi Nuclear Power Plant accident. *Journal of Environmental Radioactivity*, 222: 106348. S50608
- Kaizer, J., Kumamoto, Y., Molnr, M., Palcsu, L. & Povinec, P. (2020). Temporal changes in tritium and radiocarbon concentrations in the western North Pacific Ocean (1993–2012). *Journal of Environmental Radioactivity*, 218: 106238. S50520
- Kaplan, D. I., Powell, B. A., Demirkanli, D. I., Fjeld, R. A., Molz, F. J., Serkiz, S. M. & Coates, J. T. (2004). Influence of oxidation states on plutonium mobility during long-term transport through an unsaturated subsurface environment. *Environmental Science & Technology*, 38(19): 5053-5058. S50342
- Kaplan, D. I., Powell, B. A., Duff, M. C., Demir, D. I., Denham, K., Fjeld, R. A. & Molz, F. J. (2007). Influence of sources on plutonium mobility and oxidation state transformations in vadose zone sediments. *Environmental Science & Technology*, 41(21): 7417-7423. S50343
- Kaplan, D. I., Powell, B. A., Gumapas, L., Coates, J. T., Fjeld, R. A. & Diprete, D. P. (2006). Influence of pH on plutonium desorption/solubilization from sediment. *Environmental Science & Technology*, 40(19): 5937-5942. S50341

- Kenyon, J. A., Casacuberta, N., Castrillejo, M., Otosaka, S., Masqué, P., Drysdale, J. A., Pike, S. M. & Sanial, V. (2020). Distribution and evolution of Fukushima Dai-ichi derived ^{137}Cs , ^{90}Sr , and ^{129}I in surface seawater off the coast of Japan. *Environmental Science & Technology*, 54(23): 15066–15075. S50840
- Kersting, A. B., Efurud, D. W., Finnegan, D. L., Rokop, D. J., Smith, D. K. & Thompson, J. L. (1999). Migration of plutonium in ground water at the Nevada Test Site. *Nature*, 397: 56-59. S50359
- Ketterer, M. E., Watson, B. R., Matisoff, G. & Wilson, C. G. (2002). Rapid dating of recent aquatic sediments using Pu activities and $^{240}\text{Pu}/^{239}\text{Pu}$ as determined by quadrupole inductively coupled plasma mass spectrometry. *Environmental Science & Technology*, 36(6): 1307-1311. S50429
- Kim, S.-H., Lee, S.-H., Lee, H.-M. & Hong, G.-H. (2020). Distribution of $^{239,240}\text{Pu}$ in marine products from the seas around the Korean Peninsula after the Fukushima nuclear power plant accident. *Journal of Environmental Radioactivity*, 217: 106191. S50325
- Kiode, M., Goldberg, E. D., Herron, M. M. & Langway Jr, C. C. (1977). Transuranic depositional history in South Greenland firn layers. *Nature*, 269: 137–139. S50569
- Koide, M., Michel, R., Goldberg, E. D., Herron, M. M. & Langway Jr, C. C. (1979). Depositional history of artificial radionuclides in the Ross Ice Shelf, Antarctica. *Earth and Planetary Science Letters*, 44(2): 205-223. S50570
- Komissarov, M. & Ogura, S. (2020). Siltation and radiocesium pollution of small lakes in different catchment types far from the Fukushima Daiichi nuclear power plant accident site. *International Soil and Water Conservation Research*, 8(1): 56-65. S50404
- Konoplev, A., Wakiyama, Y., Wada, T., Udy, C., Kanivets, V., Ivanov, M. M., Komissarov, M., Takase, T., Goto, A. & Nanba, K. (2021). Radiocesium distribution and mid-term dynamics in the ponds of the Fukushima Dai-ichi nuclear power plant exclusion zone in 2015–2019. *Chemosphere*, 265: 129058. S50861
- Krey, P. W. & Krajewski, B. (1970). Comparison of atmospheric transport model calculations with observations of radioactive debris. *Journal of Geophysical Research*, 75(15): 2901-2908. S50358
- Kubo, A., Tanabe, K., Ito, Y., Ishimaru, T., Otsuki, M., Arakawa, H., Watanabe, Y., Miura, H., Tsumune, D. & Kanda, J. (2020). Changes in radioactive cesium concentrations from 2011 to 2017 in Fukushima coastal sediments and relative contributions of radioactive cesium-bearing microparticles. *Marine Pollution Bulletin*, 161 Part B: 111769. S50779
- Kurihara, Y., Takahata, N., Yokoyama, T. D., Miura, H., Kon, Y., Takagi, T., Higaki, S., Yamaguchi, N., Sano, Y. & Takahashi, Y. (2020). Isotopic ratios of uranium and caesium in spherical radioactive caesium-bearing microparticles derived from the Fukushima Dai-ichi Nuclear Power Plant. *Scientific Reports*, 10: 3281. S50403
- Lee, M. H. & Clark, S. B. (2005). Activities of Pu and Am isotopes and isotopic ratios in a soil

- contaminated by weapons-grade plutonium. *Environmental Science & Technology*, 39(15): 5512-5516. S50340
- Lin, W., Feng, Y., Yu, K., Han, Y., Wang, S., Mo, Z., Ning, Q., Liu, X., Huang, D. & Wang, J. (2020). Comparative study of radioactivity levels and radionuclide fingerprints in typical marine ecosystems of coral reefs, mangroves, and hydrothermal vents. *Marine Pollution Bulletin*, 152: 110913. S50290
- Liu, Z., Hu, J., Yamada, M. & Yang, G. (2020). Uranium and plutonium isotopes and their environmental implications in surface sediments from the Yangtze River catchment and estuary. *Catena*, 193: 104605. S50477
- Macdonald, A. M., Yoshida, S., Pike, S. M., Buesseler, K. O., Rypina, I. I., Jayne, S. R., Rossi, V., Kenyon, J. & Drysdale, J. A. (2020). A Fukushima tracer perspective on four years of North Pacific mode water evolution. *Deep Sea Research Part I: Oceanographic Research Papers*, 166: 103379. S50858
- Malcolm, S. J., Kershaw, P. J., Lovett, M. B. & Harvey, B. R. (1990). The interstitial water chemistry of $^{239,240}\text{Pu}$ and ^{241}Am in the sediments of the north-east Irish Sea. *Geochimica et Cosmochimica Acta*, 54(1): 29-35. S50496
- Mathew, E., Matkar, V. M. & Pillai, K. C. (1981). Determination of plutonium, americium and curium in environmental materials. *Journal of Radioanalytical Chemistry*, 62: 267-278. S50266
- Matsuda, K., Yamamoto, S. & Miyamoto, K. (2020). Comparison of ^{137}Cs uptake, depuration and continuous uptake, originating from feed, in five salmonid fish species. *Journal of Environmental Radioactivity*, 222: 106350. S50651
- Matsuzaki, S. S., Tanaka, A., Kohzu, A., Suzuki, K., Komatsu, K., Shinohara, R., Nakagawa, M., Nohara, S., Ueno, R., Satake, K. & Hayashi, S. (2021). Seasonal dynamics of the activities of dissolved ^{137}Cs and the ^{137}Cs of fish in a shallow, hypereutrophic lake: Links to bottom-water oxygen concentrations. *Science of The Total Environment*, 761: 143257. S50857
- Meece, D. E. & Benninger, L. K. (1993). The coprecipitation of Pu and other radionuclides with CaCO_3 . *Geochimica et Cosmochimica Acta*, 57(7): 1447-1458. S50850
- Men, W., Wang, F., Yu, W., He, J., Lin, F. & Deng, F. (2020). Impact of the Fukushima Dai-ichi Nuclear Power Plant Accident on the neon flying squids in the Northwest Pacific from 2011 to 2018. *Environmental Pollution*, 264: 114647. S50518
- Men, W., Wang, F., Yu, W., He, J., Lin, F., Deng, F., Ma, H. & Zeng, Z. (2020). Impact of the Fukushima Dai-ichi Nuclear Power Plant Accident on dolphin fishes in the Northwest Pacific. *Chemosphere*, 257: 127267. S50652
- Merino, J., Sanchez-Cabeza, J. A., Bruach, J. M., Masque, P. & Pujol, L. (1997). Artificial radionuclides in a high resolution water column profile from the Catalan Sea (the Northwestern Mediterranean). *Radioprotection - Colloques*, 32: C2.85-C2.90. S50463

- Mitchell, P. I., Vives Batlle, J., Downes, A. B., Condren, O. M., León Vitró, L. & Sánchez-Cabeza, J. A. (1995). Recent observations on the physico-chemical speciation of plutonium in the Irish Sea and the western Mediterranean. *Applied Radiation and Isotopes*, 46(11): 1175-1190. S50848
- Moran, J. E., Oktay, S., Santschi, P. H. & Schink, D. R. (1999). Atmospheric dispersal of ¹²⁹Iodine from nuclear fuel reprocessing facilities. *Environmental Science & Technology*, 33(15): 2536-2542. S50389
- Morita T., Ambe D., Miki S., Kaeriyama H. & Shigenobu Y. (2020). Impacts of the Fukushima nuclear accident on fishery products and fishing industry. *In* “Low-dose radiation effects on animals and ecosystems,” (ed. Fukumoto, M.), Springer, Singapore, 31-41. S50405
- Muramatsu, Y. & Ohmomo, Y. (1986). Iodine-129 and iodine-127 in environmental samples collected from Tokaimura/Ibaraki, Japan. *Science of The Total Environment*, 48(1-2): 33-43. S50420
- Murray, C. N., Kautsky, H. & Eicke, H. F. (1979). Transfer of actinides from the English Channel into the southern North Sea. *Nature*, 278: 617–620. S50432
- Nagao, S., Terasaki, S., Ochiai, S., Fukushi, K., Tomihara, S., Charette, M. A. & Buesseler, K. O. (2020). Desorption behavior of Fukushima-derived radiocesium in sand collected from Yotsukura beach in Fukushima Prefecture. *Analytical Sciences*, 36(5): 569-575. S50860
- Nayak, S. R., D'Souza, R. S., Purushotham, M. M., Seraje, B., Blangat, D. N., Mana, R. P. & Naregundi, K. (2021). Determination of organically bound tritium (OBT) concentration in fish by thermal oxidation and liquid scintillation counting method. *Health Physics*, 120(1): 1-8. S50706
- Nelson, D. M. & Lovett, M. B. (1978). Oxidation state of plutonium in the Irish Sea. *Nature*, 276: 599-601. S50276
- Niizeki, K., Wada, T., Nanba, K., Sasaki, K., Teramoto, W., Izumi, S., Nomura, H. & Inatomi, N. (2020). Estimating biological half-lives of ¹³⁷Cs in a cyprinid fish *Tribolodon hakonensis* by a one-compartment model considering growth dilution effect. *Fisheries Science*, 86: 861-871. S50646
- Ninomiya, K. (2020). Properties of radioactive Cs-bearing particles released by the Fukushima Daiichi Nuclear Power Plant accident and trace element analysis. *In* “Low-dose radiation effects on animals and ecosystems,” (ed. Fukumoto, M.), Springer, Singapore, 195-204. S50408
- Okamura, H., Ikeda, S., Morita, T. & Eguchi, S. (2016). Risk assessment of radioisotope contamination for aquatic living resources in and around Japan. *Proceedings of the National Academy of Sciences, USA*, 113(14): 3838-3843. S50785
- Orlandini, K. A., Penrose, W. R., Harvey, B. R., Lovett, M. B. & Findlay, M. W. (1990). Colloidal behavior of actinides in an oligotrophic lake. *Environmental Science & Technology*, 24(5): 706–712. S50844
- Osvath, I., Tarjan, S., Pitois, A., Groening, M. & Osborn, D. (2016). IAEA's ALMERA network:

- Supporting the quality of environmental radioactivity measurements. *Applied Radiation and Isotopes*, 109: 90-95. S50708
- Otosaka, S., Kambayashi, S., Fukuda, M., Tsuruta, T., Misonou, T., Suzuki, T. & Aono, T. (2020). Behavior of radiocesium in sediments in Fukushima coastal waters: Verification of desorption potential through the pore water. *Environmental Science & Technology*, 54(21): 13778–13785. S50792
- Östlund, H. G. & Rooth, C. G. H. (1990). The North Atlantic tritium and radiocarbon transients 1972–1983. *Oceans*, 95C11: 20147-20165. S50856
- Penrose, W. R., Polzer, W. L., Essington, E. H., Nelson, D. M. & Orlandini, K. A. (1990). Mobility of plutonium and americium through a shallow aquifer in a semiarid region. *Environmental Science & Technology*, 24(2): 228-234. S50344
- Piekarz, M. & Komosa, A. (2014). Rapid method for plutonium-241 determination in soil samples. *Journal of Radioanalytical and Nuclear Chemistry*, 299(3): 2019-2021. S50508
- Prihatiningsih, W. R., Suseno, H., Makmur, M., Yahya, M. N., Putra, D. I. P. & Priasetyono, Y. (2020). A review on status of marine radioecology in Indonesia after Fukushima accident. *IOP Conference Series: Earth and Environmental Science*, 584: 012041. S50864
- Qiao, J., Andersson, K. & Nielsen, S. (2020). A 40-year marine record of ¹³⁷Cs and ⁹⁹Tc transported into the Danish Straits: Significance for oceanic tracer studies. *Chemosphere*, 244: 125595. S50862
- Querfeld, R., Hori, M., Weller, A., Degering, D., Shozugawa, K. & Steinhauser, G. (2020). Radioactive games? Radiation hazard assessment of the Tokyo Olympic Summer Games. *Environmental Science & Technology*, 54(18): 11414–11423. S50859
- Reithmeier, H., Lazarev, V., Ruhm, W., Schwikowski, M., Gaggeler, H. W. & Nolte, E. (2006). Estimate of European ¹²⁹I releases supported by ¹²⁹I analysis in an alpine ice core. *Environmental Science & Technology*, 40(19): 5891-5896. S50390
- Salminen, S., Paatero, J., Jaakkola, T. & Lehto, J. (2005). Americium and curium deposition in Finland from the Chernobyl accident. *Radiochimica Acta*, 93(12): 771-779. S50264
- Salminen-Paatero, S. & Paatero, J. (2009). Concentrations of ²³⁸Pu, ²³⁹⁺²⁴⁰Pu and ²⁴¹Pu in the surface air in Finnish Lapland in 1963. *Boreal Environment Research*, 14(5): 827-836. S50506
- Salminen-Paatero, S., Paatero, J. & Jaakkola, T. (2014). ²⁴¹Pu and ²⁴¹Pu/²³⁹⁺²⁴⁰Pu activity ratio in environmental samples from Finland as evaluated by the ingrowth of ²⁴¹Am. *Boreal Environment Research*, 19(1): 51-65. S50507
- Sanchez, A. L., Gastaud, J. & Roos, E. P. (1994). Distribution of plutonium and its oxidation states in Framvaren and Hellvik fjords, Norway. *Journal of Environmental Radioactivity*, 22(3): 205-217. S50843
- Sazykina, T. G. (1998). Long-distance radionuclide transfer in the Arctic seas related to fish

- migrations. *Radiation Protection Dosimetry*, 75(1-4): 219–222. S50732
- Schneider, D. L. & Livingston, H. D. (1984). Measurement of curium in marine samples. *Nuclear Instruments and Methods in Physics Research*, 223(2-3): 510-516. S50265
- Shen, G. T., Sholkovitz, E. R. & Mann, D. R. (1983). The coagulation of dissolved ^{239, 240}Pu in estuaries as determined from a mixing experiment. *Earth and Planetary Science Letters*, 64(3): 437-444. S50493
- Shirotani, Y., Inatomi, N., Miyamoto, K., Yamada, M. & Kusakabe, M. (2020). Distributions of tritium in the coastal waters off Aomori and Iwate prefectures. 3rd Asia Pacific Symposium on Tritium Science, 発表資料. S50854
- Shozugawa, K., Hori, M., Johnson, T. E., Tahahata, N., Sano, Y., Kavasi, N., Sahoo, S. K. & Matsuo, M. (2020). Landside tritium leakage over through years from Fukushima Dai-ichi nuclear plant and relationship between countermeasures and contaminated water. *Scientific Reports*, 10: 19925. S50823
- Silva, R. J. & Nitsche, H. (1995). Actinide environmental chemistry. *Radiochimica Acta*, 70-71: 377-396. S50361
- Skwarzec, B. & Bojanowski, R. (1992). Distribution of plutonium in selected components of the Baltic ecosystem within the Polish economic zone. *Journal of Environmental Radioactivity*, 15(3): 249-263. S50509
- Smith, J. A., Andersen, T. J., Shortt, M., Gaffney, A. M., Truffer, M., Stanton, T. P., Bindschadler, R., Dutrieux, P., Jenkins, A., Hillenbr, C.-D., Ehrmann, W., Corr, H. F. J., Farley, N., Crowhurst, S. & Vaughan, D. G. (2017). Sub-ice-shelf sediments record history of twentieth-century retreat of Pine Island Glacier. *Nature*, 541: 77–80. S50503
- Smith, J. N. & Ellis, K. M. (1982). Transport mechanism for Pb-210, Cs-137 and Pu fallout radionuclides through fluvial-marine systems. *Geochimica et Cosmochimica Acta*, 46(6): 941–954. S50491
- Song, J. H., Kim, T. & Yeon, J. W. (2020). Radioactivity data analysis of ¹³⁷Cs in marine sediments near severely damaged Chernobyl and Fukushima nuclear power plants. *Nuclear Engineering and Technology*, 52(2): 366-372. S50460
- Stan-Sion, C., Enachescu, M. S. & Petre, A. (2015). AMS analyses of I-129 from the Fukushima Daiichi nuclear accident in the Pacific Ocean waters of the Coast La Jolla – San Diego, USA. *Environmental Science: Processes and Impacts*, 17(5): 932-938. S50386
- Takata, H., Aono, T., Aoyama, M., Inoue, M., Kaeriyama, H., Suzuki, S., Tsuruta, T., Wada, T. & Wakiyama, Y. (2020). Suspended particle–water interactions increase dissolved ¹³⁷Cs activities in the nearshore seawater during typhoon Hagibis. *Environmental Science & Technology*, 54(17): 10678–10687. S50698
- Takata, H., Inatomi, N. & Kudo, N. (2020). The contribution of ¹³⁷Cs export flux from the Tone River

- Japan to the marine environment. *Science of The Total Environment*, 701: 134550. S50576
- Takata, H., Kusakabe, M., Johansen, M. P., Jeon, H. & McGinnity, P. (2020). Chapter 7. Marine systems. International Atomic Energy Agency, Environmental transfer of radionuclides in Japan following the accident at the Fukushima Daiichi Nuclear Power, IAEA-TECDOC-1927: 229-261. S50787
- Tateda, Y., Misumi, K., Tsumune, D., Aoyama, M., Hamajima, Y., Kanda, J., Ishimaru, T. & Aono, T. (2020). Reconstruction of radiocesium levels in sediment off Fukushima: Simulation analysis of bioavailability using parameters derived from observed ^{137}Cs concentrations. *Journal of Environmental Radioactivity*, 214-215. 106172. S50345
- Toyama, C., Muramatsu, Y., Igarashi, Y., Aoyama, M. & Matsuzaki, H. (2013). Atmospheric fallout of ^{129}I in Japan before the Fukushima accident: Regional and global contributions (1963–2005). *Environmental Science & Technology*, 47(15): 8383-8390. S50384
- Vajda, N. & Kim, C.-K. (2011). Determination of transuranium isotopes (Pu, Np, Am) by radiometric techniques: A review of analytical methodology. *Analytical Chemistry*, 83(12): 4688-4719. S50492
- Wang, Z., Zheng, J., Youyi, N., Men, W., Tagami, K. & Uchida, S. (2017). High-performance method for determination of Pu isotopes in soil and sediment samples by sector field-inductively coupled plasma mass spectrometry. *Analytical Chemistry*, 89(4): 2221-2226. S50501
- Warwick, P. E., Croudace, W. & Oh, J.-S. (2001). Radiochemical determination of ^{241}Am and $\text{Pu}(\alpha)$ in environmental materials. *Analytical Chemistry*, 73(14): 3410-3416. S50497
- Wauters, J., Elsen, A., Cremers, A., Konoplev, A. V., Bulgakov, A. A. & Comans, R. N. J. (1996). Prediction of solid/liquid distribution coefficients of radiocaesium in soils and sediments. Part one: a simplified procedure for the solid phase characterisation. *Applied Geochemistry*, 11(4): 589-594. S50731
- Wong, K. M., Jokela, T. A., Eagle, R. J., Brunk, J. L. & Noshkin, V. E. (1992). Radionuclide concentrations, fluxes, and residence times at Santa Monica and San Pedro Basins. *Progress in Oceanography*, 30(1-4): 353-391. S50355
- Xu, S., Freeman, S. P. H. T., Hou, X., Watanabe, A., Yamaguchi, K. & Zhang, L. (2013). Iodine isotopes in precipitation: Temporal responses to ^{129}I emissions from the Fukushima nuclear accident. *Environmental Science & Technology*, 47(19): 10851-10859. S50385
- Yamada, M., Oikawa, S., Shirotani, Y., Kusakabe, M. & Shindo, K. (2021). Transuranic nuclides Pu, Am and Cm isotopes, and ^{90}Sr in seafloor sediments off the Fukushima Daiichi Nuclear Power Plant during the period from 2012 to 2019. *Journal of Environmental Radioactivity*, 227: 106459. S50826
- Yusof, M. F. B., Kawada, G., Enomoto, M., Tomiya, A., Watanabe, M., Morishita, D. Izumi, S. & Nakajima, M. (2020). Mutations observed in mitochondrial DNA of salmon collected in Mano

River, Fukushima Prefecture, Japan. In “Low-dose radiation effects on animals and ecosystems,” (ed. Fukumoto, M.), Springer, Singapore, 89-98. S50407

Zhang, Z., Igarashi, J., Satou, Y., Ninomiya, K., Sueki, K. & Shinohara, A. (2019). Activity of ⁹⁰Sr in fallout particles collected in the difficult-to-return zone around the Fukushima Daiichi Nuclear Power Plant. *Environmental Science & Technology*, 53(10): 5868–5876. S50544

Zhang, Z., Ninomiya, K., Yamaguchi, Y., Kita, K., Tsuruta, H., Igarashi, Y. & Shinohara, A. (2018). Atmospheric activity concentration of ⁹⁰Sr and ¹³⁷Cs after the Fukushima Daiichi Nuclear accident. *Environmental Science & Technology*, 52(17): 9917-9925. S50543

Zuykov, M., Fowler, S. W., Archambault, P., Spiers, G. & Schindler, M. (2020). Practical advice on monitoring of U and Pu with marine bivalve mollusks near the Fukushima Daiichi Nuclear Power Plant. *Marine Pollution Bulletin*, 151: 110860. S50278

化学物質関連

磯野良介・大坂綾太(2020). 海産甲殻類アカシマモエビのゾエア幼生を用いた急性毒性試験法の開発. *環境毒性学会誌*, 23(1): 1-9. S50591

倉島 彰(2020). ジベレリンとステビオサイドが発芽直後のサガラメ配偶体の成熟におよぼす影響. *水産増殖*, 68(2): 111-119. S50593

百々瀬 愛・室崎喬之・野方靖行・小野寺真也・東 乙比古・下村政嗣・平井悠司(2020). 架橋 PVA コーティングのフジツボ付着防止効果の検証. *Sessile Organisms*, 37(1): 1-9. S50555

Camacho, C., Maulvault, A. L., Santos, M. T., Barbosa, V., Fogaca, F. H., Pousao-Ferreira, P., Nunes, M. L., Rosa, R. & Marques, A. (2020). Mercury in juvenile *Solea senegalensis*: Linking bioaccumulation, seafood safety, and neuro-oxidative responses under climate change-related stressors. *Applied Sciences*, 10(6): 1-25. S50808

Choi, J. S., Hong, S. H. & Park, J.-W. (2020). Evaluation of microplastic toxicity in accordance with different sizes and exposure times in the marine copepod *Tigriopus japonicus*. *Marine Environmental Research*, 153: 1-7. S50256

Garca Hernandez, M. P., Cabas, I., Rodenas, M. C., Arizcun, M., Chaves-Pozo, E., Power, D. M. & Ayala, A. G. (2020). 17 α -ethynylestradiol prevents the natural male-to-female sex change in gilthead seabream (*Sparus aurata* L.). *Scientific Reports*, 10: 20067. S50827

Onduka, T., Kono, K., Ito, M., Ohkubo, N., Hano, T., Ito, K. & Mochida, K. (2020). Ecological risk assessment of an antifouling biocide triphenyl (octadecylamine) boron in the Seto Inland Sea, Japan. *Marine Pollution Bulletin*, 157: 111320. S50545

海洋環境維持・保全

赤松友成(2020). 遠隔的音響観測技術による海洋生物の地図作成. *環境情報科学*,

- 49(1): 28-32. S50446
- 秋山 諭・上田真由美・田中咲絵・横松宏幸・中谷祐介・西田修三(2020). 地形改変が内部生産有機物の堆積過程に与える影響評価ー大阪湾の浚渫産地内に分布する高濃度有機物ー. 瀬戸内海, 80: 56-58. S50748
- 阿保勝之(2020). 瀬戸内海における水温変化の実態. 瀬戸内海, 79: 13-15. S50436
- 荒川久幸・鈴木秀和・大草 駿・樋口 謙・三橋賢太郎・佐藤 陽(2020). 微細な海中粒子の増大する環境下における藻場が受ける影響および藻場の再生手法の検討. (一財)漁港漁場漁村総合研究所 調査研究論文集, 30: 69-73. S50914
- 大畑 聡(2020). 黒潮流路の変動が房総半島東岸の流況に及ぼす影響. 千葉県水産総合研究センター研究報告, No. 13: 1-6. S50440
- 加藤敏朗・楠井隆史・小杉知佳・福島寿和(2020). 製鋼スラグ資材の海域利用時の生物に対する影響評価. 鉄と鋼, 106(1): 50-57. S50875
- 蒲原 聡(2020). 豊かな内湾環境を実現するモニタリング調査と栄養塩類のあり方ー伊勢・三河湾を例としてー. 海洋と生物, 42(1): 16-24. S50332
- 川井浩史・羽生田岳昭・寺田竜太(2019). 藻場生態系の長期モニタリング : 淡路由良, 竹野サイトの 10 年. 地域自然史と保全, 41(2): 111-119. S50572
- 河野光久(2020). 山口県日本海域における海洋環境と海洋生物(総説). 山口県水産研究センター研究報告, 17: 33-48. S50589
- 草野朱音(2019). 近年の東京湾における赤潮の発生状況について. 神奈川県水産技術センター研究報告, No. 10: 51-56. S50328
- 朱 夢瑤(2020). 海洋問題となるマイクロプラスチックの調査の現状と今後の課題. 海の論考 OPRI Perspectives, 14: 1-9. S50820
- 白山義久(2020). 海洋基本法と環境基本法ー海洋の環境保全の在り方ー. 日本生態学会誌, 70(2): 147-150. S50665
- 鈴木元治・中谷祐介・古賀佑太郎(2020). 下水処理場の窒素排出量増加運転が瀬戸内海播磨灘の有機物及び栄養塩の海水中濃度に与える影響評価. 水環境学会誌, 43(2): 43-53. S50368
- 友定 彰(2002). 日本周辺漁域における 20 世紀初頭と末の海面水温差ー神戸コレクションと漁海況データセットよりー. 海と空, 78(3): 101-108. S50470
- 中嶋亮太・山下 麗(2020). 海洋マイクロプラスチックの採取・前処理・定量方法. 海の研究, 29(5): 129-151. S50819
- 西井裕子(2020). 気候変動の影響への適応に関する大阪府の取組みー河川及び海域における水温変動の解析ー. 瀬戸内海, 79: 22-24. S50439
- 平岡喜代典・大道優平・中原真哉・池田武司・岡田光正(2020). 台風 0418 号による干潟の底生動物群集への短期的, 長期的影響. 水環境学会誌, 43(3): 97-105. S50479

- 藤原建紀・樋口和宏・藤井智康(2020). 海産生物の生育に必要な水質(全窒素・全リン濃度の下限値)の定量化：アサリおよび生物付着板を用いた現地調査. 水環境学会誌, 43(6): 175-182. S50817
- 淵田茂司・越川 海・河地正伸(2020). 海底熱水鉱石の金属溶出特性—海底鉱物資源開発における環境影響評価— .地球化学, 54(1): 15-27. S50877
- 松田 治(2017). 沿岸環境の再生と機能回復. 第74回 海砂利の大量採取跡地の今 —広島県の調査結果から—. アクアネット, 20(7): 60-63. S50540
- 松田 治(2020). 沿岸環境の再生と機能回復. 第91回 干潟再生のためのダム堆積砂の有効利用. アクアネット, 23(5): 62-67. S50536
- 松田 治(2020). 沿岸環境の再生と機能回復. 第94回 瀬戸内海の藻場・干潟の今—約25年ぶりの調査結果を読み解く—. アクアネット, 23(11): 62-67. S50852
- 松田裕之(2020). 絶滅危惧種の判定方法と守り方. 海洋と生物, 42(1): 25-28. S50333
- 柳 哲雄(2020). 沿岸海域の栄養塩濃度管理. 沿岸海洋研究, 58(1): 11-18. S50683
- 吉江直樹(2020). 生態系モデルを用いた環境変化に伴う生態系応答の理解と予測に向けて. 環境情報科学, 49(1): 21-27. S50445
- 吉田久美・北村佳照・中野俊也(2020). 日本近海における海面水温の十年規模変動. 海の研究, 29(2): 19-36. S50434
- Al-Howiti, N. S., Othmen, Z. O. B., Othmane, A. B. & Chaffai, A. H. (2020). Use of *Tridacna maxima*, a bivalve in the biomonitoring of the Saudi Arabian Red Sea coast. Marine Pollution Bulletin, 150: 110766. S50401
- Asper, V. L., Deuser, W. G., Knauer, G. A. & Lohrenz, S. E. (1992). Rapid coupling of sinking particle fluxes between surface and deep ocean waters. Nature, 357: 670-672. S50356
- Barth, A., Walter, R. K., Robbins, I. & Pasulka, A. (2020). Seasonal and interannual variability of phytoplankton abundance and community composition on the Central Coast of California. Marine Ecology Progress Series, 637: 29-43. S50475
- Butman, C. A. (1986). Sediment trap biases in turbulent flows: Results from a laboratory flume study. Journal of Marine Research, 44(3): 645-693. S50337
- Cormier, E., Sisson, D. R., Ruhland, K. M., Smol, J. P. & Bennett, J. R. (2020). A morphological trait-based approach to environmental assessment models using diatoms. Canadian Journal of Fisheries and Aquatic Sciences, 77(1): 108-112. S50294
- Cornelius, A. & Buschbaum, C. (2020). Introduced marine ecosystem engineers change native biotic habitats but not necessarily associated species interactions. Estuarine, Coastal and Shelf Science, 245: 106936. S50913
- de Caralt, S., Verdura, J., Vergs, A., Ballesteros, E. & Cebrian, E. (2020). Differential effects of pollution on adult and recruits of a canopy-forming alga: implications for population viability under low pollutant levels. Scientific Reports, 10: 17825. S50770

- Enamul Kabir, A. H. M., Sekine, M., Imai, T. & Yamamoto, K. (2020). Microplastics pollution in the Seto Inland Sea and Sea of Japan surrounded Yamaguchi Prefecture areas, Japan: Abundance, characterization and distribution, and potential occurrences. *Journal of Water and Environment Technology*, 18(3): 175-194. S50553
- Fieux, M., Andre, C., Charriaud, E., Ilahude, A. G., Metzl, N., Molcard, R. & Swallow, J. V. (1996). Hydrological and chlorofluoromethane measurements of the Indonesian throughflow entering the Indian Ocean. *Journal of Geophysical Research Oceans*, 101(C5): 12433-12454. S50701
- Filbee-Dexter, K. & Wernberg, T. (2020). Substantial blue carbon in overlooked Australian kelp forests. *Scientific Reports*, 10: 12341. S50607
- Ganachaud, A. & Wunsch, C. (2000). Improved estimates of global ocean circulation, heat transport and mixing from hydrographic data. *Nature*, 408: 453–457. S50662
- Gardner, W. D., Biscaye, P. E. & Richardson, M. J. (1997). A sediment trap experiment in the Vema Channel to evaluate the effect of horizontal particle fluxes on measured vertical fluxes. *Journal of Marine Research*, 55(5): 995-1028. S50338
- Gordon, A. L. (1985). Indian-Atlantic transfer of thermocline water at the Agulhas Retroflection. *Science*, 227(4690): 1030-1033. S50645
- Gordon, A. L. & Fine, R. A. (1996). Pathways of water between the Pacific and Indian oceans in the Indonesian seas. *Nature*, 379: 146-149. S50649
- Gordon, A. L., Susanto, R. D. & Vranes, K. (2003). Cool Indonesian throughflow as a consequence of restricted surface layer flow. *Nature*, 425: 824-828. S50650
- Henderson, L. & Green, C. (2020). Making sense of microplastics? Public understandings of plastic pollution. *Marine Pollution Bulletin*, 152: 110908. S50284
- Hernández-Almeida, I., Bjørklund, K. R., Diz, P., Kruglikova, S., Ikenoue, T., Matul, A., Saavedra-Pellitero, M. & Swanberg, N. (2020). Life on the ice-edge: Paleoenvironmental significance of the radiolarian species *Amphimelissa setosa* in the northern hemisphere. *Quaternary Science Reviews*, 248: 106565. S50696
- Huq, F., Viig, S. O., Brandvoll, Ø., Johansen, I., Medeiros, M. J. & Teixeira, M. A. G. (2020). Development of a passive sampling technique for offshore CO₂ monitoring: Preliminary results from laboratory experiments. *Journal of Petroleum Science and Engineering*, 194: 107544. S50654
- Hyun, J.-H., Choi, K. S., Lee, K. S., Lee, S. H., Kim, Y. K. & Kang, C. K. (2020). Climate change and anthropogenic impact around the Korean coastal ecosystems: Korean Long-Term Marine Ecological Research (K-LTMER). *Estuaries and Coasts*, 43: 441–448. S50461
- Ittekkot, V., Nair, R. R., Honjo, S., Ramaswamy, V., Bartsch, M., Manganini, S. & Desai, B. N. (1991). Enhanced particle fluxes in Bay of Bengal induced by injection of fresh water. *Nature*, 351: 385–387. S50709

- Jones, A. J., Quillien, N., Fabvre, A., Grall, J., Schaal, G. & Bris, H. L. (2020). Green macroalgae blooms (*Ulva* spp.) influence trophic ecology of juvenile flatfish differently in sandy beach nurseries. *Marine Environmental Research*, 154: 104843. S50292
- Kako, S., Morita, S. & Taneda, T. (2020). Estimation of plastic marine debris volumes on beaches using unmanned aerial vehicles and image processing based on deep learning. *Marine Pollution Bulletin*, 155: 111127. S50901
- Kanai, R., Ogawa, H., Vilsen, B., Cornelius, F. & Toyoshima, C. (2013). Crystal structure of a Na⁺-bound Na⁺, K⁺-ATPase preceding the E1P state. *Nature*, 502: 201-206. S50309
- Krause-Jensen, D. & Duarte, C. M. (2016). Substantial role of macroalgae in marine carbon sequestration. *Nature Geoscience*, 9(10): 737–742. S50362
- Krumsick, K. J. & Fisher, J. A. D. (2020). Community size spectra provide indicators of ecosystem recovery on the Newfoundland and Labrador shelf. *Marine Ecology Progress Series*, 635: 123-137. S50530
- Liverston, H. D., Mann, D. R. & Bowen, V. T. (1975). Analytical procedures for transuranic elements in seawater and marine sediments. *In* “Analytical methods in oceanography” (ed. Gibb, T.R.P. Jr.), *Advanced in Chemistry Series*, 147: 124-138. S50277
- Lima, M. A. C., Ward, R. D. & Joyce, C. B. (2020). Environmental drivers of sediment carbon storage in temperate seagrass meadows. *Hydrobiologia*, 847(7): 1773-1792. S50532
- Mabon, L., Kita, J., Onchi, H., Kawabe, M., Katano, T., Kohno, H. & Huang, Y.-C. (2020). What natural and social scientists need from each other for effective marine environmental assessment: Insights from collaborative research on the Tomakomai CCS Demonstration Project. *Marine Pollution Bulletin*, 159: 111520. S50635
- Miller, E. A., Lisin, S. E., Smith, C. M. & Van Houtan, K. S. (2020). Herbaria macroalgae as a proxy for historical upwelling trends in Central California. *Proceedings of the Royal Society, B-Biological Sciences*, 287(1929): 20200732. S50729
- Oreska, M. P. J., McGlathery, K. J., Aoki, L. R., Berger, A. C., Berg, P. & Mullins, L. (2020). The greenhouse gas offset potential from seagrass restoration. *Scientific Reports*, 10: 7325. S50482
- Rahmstorf, S. (2002). Ocean circulation and climate during the past 120,000 years. *Nature*, 419: 207–214. S50663
- Ricart, A. M., York, P. H., Bryant, C., Rasheed, M. A., Ierodiaconou, D. & Macreadie, P. I. (2020). High variability of Blue Carbon storage in seagrass meadows at the estuary scale. *Scientific Reports*, 10: 5865. S50411
- Schmitz, W. J. J. (1995). On the interbasin-scale thermohaline circulation. *Reviews of Geophysics*, 33(2): 151-173. S50656
- Shetye, S. R., Gouveia, A. B., Shenoi, S. S. C., Sundar, D., Michael, G. S. & Nampoothiri, G. (1993). The western boundary current of the seasonal subtropical gyre in the Bay of Bengal. *Journal of*

Geophysical Research Oceans, 98(C1): 945-954. S50702

Uchida, M., Miyoshi, T., Kanematsu, M. & Kobayashi, Y. (2020). Inhibition of growth in juvenile asari clams *Ruditapes philippinarum* fed *Ulva* spp. marine silage. Fisheries Science, 86(3): 519–530. S50481

Wada, S. & Hama, T. (2013). The contribution of macroalgae to the coastal dissolved organic matter pool. Estuarine, Coastal and Shelf Science, 129: 77-85. S50363

Zhang, J., Jiang, K., Kambayashi, S., Sakatoku, A., Yamanaka, T., Fujikura, K. & Pellizari, V. H. (2020). Biogeochemistry of asphalt seeps in the North São Paulo Plateau, Brazilian Margin. Goldschmidt 2020 Abstract. S50773

Zwerschke, N., Eagling, L., Roberts, D. & O'Connor, N. (2020). Can an invasive species compensate for the loss of a declining native species? Functional similarity of native and introduced oysters. Marine Environmental Research, 153: 1-11. S50258

生物生理・生態

有村 要・渡邊裕基・三根崇幸・森川太郎・Gregory N. Nishihara・寺田竜太(2020). 佐賀産ナラワスサビノリの空気暴露下における光合成の応答, 世代間の相違について. 日本藻類学会第44回大会講演要旨. S50374

石川達也(2020). 和歌山県砥崎海域において2018年に発生したウニ類の大量死. ニッチェ・ライフ, 7: 53-55. S50485

稲野俊直・田牧幸一・山田和也(2020). 高温耐性ニジマスの作出と高温耐性の生物学的評価. 日本水産学会誌, 86(5): 360-363. S50714

尾山 輝・安藤宏朗・岡部泰基・周防 玲・杉田治男・高井則之・糸井史朗・小嶋純一(2020). 日本列島近海のムツ属魚類の初期生態解明に関する研究. 令和2年度日本水産学会春季大会 講演要旨集: 51. S50579

小林 豊(2020). カイヤドリウミグモ幼生の水温, 塩分, 酸性度, 低酸素濃度耐性(資料). 千葉県水産総合研究センター研究報告, No. 13: 53-60. S50442

塩野谷 勝・吉川貴志(2020). ヒゲソリダイの卵発生. 海洋生物環境研究所研究報告, No. 25: 53-59. S50423

柴田玲奈・荒川久幸(2020). 光を用いた魚類の行動制御(総説). La mer(うみ), 58(1・2): 1-16. S50643

白藤徳夫・渡邊良朗・武田保幸・千村昌之・鬼塚年弘・河村知彦(2020). 潮岬周辺海域におけるキビナゴの生活史. 日本水産学会誌, 86(5): 386-394. S50716

鈴木朋和(2002). アマモ場にイセエビプエルルス幼生は着底するか. 伊豆分場だより, No. 287: 2-4. S50580

高村正造・有馬史織・西村竜雄・相澤 康(2019). 小田原沿岸海域における藻場景観被度の経年変化と減少要因. 神奈川県水産技術センター研究報告, No. 10: 35-41.

S50329

多部田 茂 (2020). 海洋深層水を用いた藻場造成. *グリーン・エージ*, 47(6): 8-11.

S50699

中村将平・岡田 亘・田村圭一・鈴木 豪・完山 暢・藤家 亘・林 正裕・中瀬 聡・山崎 将志(2020). 持続的な幼生供給基地確立のためのオニヒトデ対策について. 日本サンゴ礁学会第23回大会発表資料. S50847

中村倫明・長谷川一幸・鷺見浩一・小田 晃・落合 実(2020). 干潟における地形変化とコメツキガニ巣穴及び巣穴の大きさとの関係. *土木学会論文集 B3(海洋開発)*, 76(2): I_858-I_863. S50839

丹羽健太郎・黒木洋明・澤山周平・梶ヶ谷義一・寺本 航・折田 亮・石樋由香・渋谷拓郎・早川 淳・張 成年(2020). 生化学的アプローチによるガンガゼ *Diadema setosum* の天然餌料の検討. *日本水産学会誌*, 86(1): 9-19. S50320

野田幹雄・江崎裕和・上地宏典(2020). 水槽実験によるアイゴ成魚の動物性餌料と大型褐藻類の採餌パターン. *水産大学校研究報告*, 68(2): 55-64. S50515

野元彰人・渡部哲也・徳丸直輝・酒井 卓・石村理知・香田 唯・和田恵次(2020). 近畿地方における砂浜性スナガニ属4種の18年間にわたる分布の変容—2002年・2010年・2019年の比較—. *地域自然史と保全*, 42(1): 45-59. S50873

萩原清司・原田莉緒・石渡陽人・大島雛子・畠山葉南・多田かの(2020). 三浦半島におけるオニカマス *Sphyræna barracuda* (スズキ目; カマス科) の出現状況. *横須賀市自然・人文博物館研究報告(自然科学)*, No. 67: 29-32. S50666

長谷川一幸・中村倫明・落合 実(2020). インターバル機能付き赤外線カメラを用いたコメツキガニの日周行動の把握手法の検討. *土木学会論文集 B3(海洋開発)*, 76(2): I_864-I_868. S50838

長谷川雅俊(2020). 西伊豆におけるガンガゼ駆除をめぐる。伊豆分場だより, No. 360: 6-11. S50617

村瀬 昇・阿部真比古(2020). 光質が異なるLED照射下における海藻の生育特性. *養殖ビジネス*, 57(2): 22-25. S50595

安田仁奈(2020). オニヒトデの大量発生と幼生の分散. *海洋と生物*, 42(4): 334-341. S50679

山川宇宙・三井翔太・小田泰一朗・森田 優・碧木健人・丸山智朗・田中翔大・斉藤洪成・津田吉晃・瀬能 宏(2020). 相模湾およびその周辺地域で記録された分布が北上傾向にある魚類7種. *神奈川自然誌資料*, No. 41: 71-82. S50412

山田秀秋・今 孝悦・中本健太・早川 淳・南條楠土・河村知彦 (2020). 給餌実験と炭素・窒素安定同位体比分析から推定した亜熱帯海草藻場におけるアイゴ稚魚の摂食生態. *水産増殖*, 68(2): 163-167. S50594

山本昌幸・棚田教生・元谷 剛・小林靖尚・片山知史(2020). 瀬戸内海東部におけるア

- イゴの年齢・成長と産卵. 水産海洋研究, 84(3): 178-186. S50691
- Akita, S., Murasawa, H., Kondo, M., Tatano, Y., Kawakami, Y., Nagai, S. & Fujita, D. (2020). DNA metabarcoding analysis of macroalgal seed banks on shell surface of the limpet *Niveotectura pallida*. *European Journal of Phycology*, 55(4): 467-477. S50879
- Akita, S., Nurasawa, H., Takano, Y., Kawakami, Y., Fujita, D. & Nagai, S. (2020). Variation in “bank of microscopic forms” in urchin barren coast: detection using DNA metabarcoding based on high-throughput sequencing. *Journal of Applied Phycology*, 32: 2115–2124. S50905
- Álvarez-Canali, D., Sangil, C. & Sansón, M. (2021). Fertile drifting individuals of the invasive alien *Sargassum muticum* (Fucales, Phaeophyceae) reach the coasts of the Canary Islands (eastern Atlantic Ocean). *Aquatic Botany*, 168: 103322. S50796
- Borlongan, I. A., Arita, R., Nishihara, G. N. & Terada, R. (2020). The effects of temperature and irradiance on the photosynthesis of two heteromorphic life history stages of *Saccharina japonica* (Laminariales) from Japan. *Journal of Applied Phycology*, 32: 4175–4187. S50837
- Briceo, F. A., Fitzgibbon, Q. P., Polymeropoulos, E. T., Hinojosa, I. A. & Pecl, G. T. (2020). Temperature alters the physiological response of spiny lobsters under predation risk. *Conservation Physiology*, 8: 1-16. S50811
- Bulleri, F., Pardi, G., Tamburello, L. & Ravaglioli, C. (2020). Nutrient enrichment stimulates herbivory and alters epibiont assemblages at the edge but not inside subtidal macroalgal forests. *Marine Biology*, 167: 181. S50801
- Carrano, M. W., Yarimizu, K., Gonzales, J. L., Cruz-Lpez, R., Edwards, M. S., Tymon, T. M., Kpper, F. C. & Carrano, C. J. (2020). The influence of marine algae on iodine speciation in the coastal ocean. *Algae*, 35(2): 167-176. S50565
- Chowdhury, S. & Saikia, S. K. (2020). Oxidative stress in fish: A review. *Journal of Scientific Research*, 12(1): 145-160. S50306
- Collins, C. L., Burnett, N. P., Ramsey, M. J., Wagner, K. & Zippay, M. L. (2020). Physiological responses to heat stress in an invasive mussel *Mytilus galloprovincialis* depend on tidal habitat. *Marine Environmental Research*, 154: 104849. S50293
- Conaco, C. & Cabaitan, P. C. (2020). Influence of salinity and temperature on the survival and settlement of *Heliopora coerulea* larvae. *Marine Pollution Bulletin*, 150: 110703. S50402
- Covernton, G. A. & Harley, C. D. G. (2020). Multi-scale variation in salinity: a driver of population size and structure in the muricid gastropod *Nucella lamellosa*. *Marine Ecology Progress Series*, 643: 1-19. S50564
- Crickenberger, S., Hui, T. Y., Yuan, F. L., Bonebrake, T. C. & Williams, G. A. (2020). Preferred temperature of intertidal ectotherms: Broad patterns and methodological approaches. *Journal of Thermal Biology*, 87: 102468. S50319
- Da-Anoy, J. P., Cabaitan, P. C. & Conaco, C. (2020). Warm temperature alters the chemical cue

- preference of *Acropora tenuis* and *Heliopora coerulea* larvae. *Marine Pollution Bulletin*, 161 Part B: 111755. S50780
- Davies, T. W., Mckee, D., Fishwick, J., Tidau, S. & Smyth, T. (2020). Biologically important artificial light at night on the seafloor. *Scientific Reports*, 10: 12545. S50612
- de Caralt, S., Verdura, J., Vergs, A., Ballesteros, E. & Cebrian, E. (2020). Differential effects of pollution on adult and recruits of a canopy-forming alga: implications for population viability under low pollutant levels. *Scientific Reports*, 10: 17825. S50797
- Dong, H., Mao, Y., Duan, Y., Su, Y., Wang, J. & Zhang, J. (2020). Physiological and molecular differences in the thermal tolerance of two varieties of kuruma prawn *Marsupenaeus japonicus*: critical thermal maximum and heat shock protein 70. *Fisheries Science*, 86(1): 163-169. S50254
- Dunn, D. F. (1981). The clownfish sea anemones: Stichodactylidae (Coelenterata: Actiniaria) and other sea anemones symbiotic with pomacentrid fishes. *Transactions of the American Philosophical Society*, 71(1): 1-115. S50598
- Ebbing, A., Pierik, R., Bouma, T., Bouma, T., Kromkamp, J. C. & Timmermans, K. (2020). How light and biomass density influence the reproduction of delayed *Saccharina latissima* gametophytes (Phaeophyceae). *Journal of Phycology*, 56(3): 709-718. S50551
- Edwards, M., Konar, B., Kim, J.-H., Gabara, S., Sullaway, G., McHugh, T., Spector, M. & Small, S. (2020). Marine deforestation leads to widespread loss of ecosystem function. *PLoS ONE*, 15(3): e0226173. S50462
- Eymann, C., Gtze, S., Bock, C., Guderley, H., Knoll, A. H., Lanning, G., Sokolova, I. M., Aberhan, M. & Prtner, H.-O. (2020). Thermal performance of the European flat oyster, *Ostrea edulis* (Linnaeus, 1758) - explaining ecological findings under climate change. *Marine Biology*, 167: 17. S50272
- Falahatkar, B. & Poursaeid, S. (2014). Gender identification in great sturgeon (*Huso huso*) using morphology, sex steroids, histology and endoscopy. *Anatomia Histologia Embryologia*, 43(2): 81-89. S50629
- Falahatkar, B., Gilani, M. H. T., Falahatkar, S. & Abbasalizadeh, A. (2011). Laparoscopy, a minimally-invasive technique for sex identification in cultured great sturgeon *Huso huso*. *Aquaculture*, 321(3-4): 273-279. S50614
- Floyd, M., Mizuyama, M., Obuchi, M., Sommer, B., Miller, M. G. R., Kawamura, I., Kise, H., Reimer, J. D. & Beger, M. (2020). Functional diversity of reef molluscs along a tropical-to-temperate gradient. *Coral Reefs*, 39(5): 1361–1376. S50713
- Fusaro, C. (1980). Diel distribution differences in the sand crab, *Emerita analoga* (Stimpson) (Decapoda, Hippidae). *Crustaceana*, 39(3): 287-300. S50517
- Gendron, G., Trembley, R., Jolivet, A., Olivier, F., Chauvaud, L., Winkler, G. & Audet, C. (2020). Anthropogenic boat noise reduces feeding success in winter flounder larvae

- (*Pseudopleuronectes americanus*). Environmental Biology of Fishes, 103: 1079–1090. S50688
- Gottesman, B. L., Sprague, J., Kushner, D. J., Bellisario, K., Savage, D., McKenna, M. F., Conlin, D. L., DiDonato, E., Barkaszi, M. J., Halvorsen, M. B. & Pijanowski, B. C. (2020). Soundscapes indicate kelp forest condition. Marine Ecology Progress Series, 654: 35-52. S50886
- Gouda, H. & Agatsuma, Y. (2020). Effect of high temperature on gametogenesis of the sea urchin *Strongylocentrotus intermedius* in the Sea of Japan, northern Hokkaido, Japan. Journal of Experimental Marine Biology and Ecology, 525: 151324. S50327
- Graba-Landry, A. C., Loffler, Z., McClure, E. C., Pratchett, M. S. & Hoey, A. S. (2020). Impaired growth and survival of tropical macroalgae (*Sargassum* spp.) at elevated temperatures. Coral Reefs, 39: 475-486. S50381
- Griffiths, D. (2020). Foraging habitat determines predator–prey size relationships in marine fishes. Journal of Fish Biology, 97(4): 964-973. S50884
- Griffiths, N. P., Bolland, J. D., Wright, R. M., Murphy, L. A., Donnelly, R. K., Watson, H. V. & Hanfling, B. (2020). Environmental DNA metabarcoding provides enhanced detection of the European eel *Anguilla anguilla* and fish community structure in pumped river catchments. Journal of Fish Biology, 97(5): 1375-1384. S50883
- Hamilton, H. J. & Gosselin, L. A. (2020). Ontogenetic shifts and interspecies variation in tolerance to desiccation and heat at the early benthic phase of six intertidal invertebrates. Marine Ecology Progress Series, 634: 15-28. S50490
- Hu, F., Yang, M., Ding, P., Zhang, X., Chen, Z., Ding, J., Chi, X., Luo, J., Zhao, C. & Chang, Y. (2020). Effects of the brown algae *Sargassum horneri* and *Saccharina japonica* on survival, growth and resistance of small sea urchins *Strongylocentrotus intermedius*. Scientific Reports, 10: 12495. S50613
- Hu, Y., Li, Q., Liu., S. & Long, L. (2020). Effects of acute temperature and salinity stress on the survival and immune indexes of Iwagaki oysters, *Crassostrea nippona*. Journal of Fishery Sciences of China, 27(3): 286-294. S50486
- Illing, B., Downie, A. T., Beghin, M. & Rummer, J. L. (2020). Critical thermal maxima of early life stages of three tropical fishes: Effects of rearing temperature and experimental heating rate. Journal of Thermal Biology, 90: 102582. S50604
- Ineno, T., Yamada, K., Tamaki, K., Kodama, R., Tan, E., Kinoshita, S., Muto, K., Yada, T., Kitamura, S., Asakawa, S. & Watabe, S. (2020). Determination of thermal tolerance in rainbow trout *Oncorhynchus mykiss* based on effective time, and its reproducibility for a large number of fish. Fisheries Science, 86: 767–774. S50676
- Johnson, J. S., Raubenheimer, D., Bury, S. J. & Clements, K. D. (2020). Does temperature constrain diet choice in a marine herbivorous fish? Marine Biology, 167: 99. S50603
- Jurriaans, S. & Hoogenboom, M. O. (2020). Seasonal acclimation of thermal performance in two

- species of reef-building corals. *Marine Ecology Progress Series*, 635: 55-70. S50322
- Kaplanis, N. J., Harris, J. L. & Smith, J. E. (2020). A cross-genus comparison of grazing pressure by two native marine herbivores on native, non-native naturalized, and non-native invasive *Sargassum* macroalgae. *Helgoland Marine Research*, 74: 9. S50670
- Kasai, A., Takada, S., Yamazaki, A., Masuda, R. & Yamanaka, H. (2020). The effect of temperature on environmental DNA degradation of Japanese eel. *Fisheries Science*, 86(3): 465–471. S50480
- Kinjo, A., Mizukawa, K., Takada, H. & Inoue, K. (2019). Size-dependent elimination of ingested microplastics in the Mediterranean mussel *Mytilus galloprovincialis*. *Marine Pollution Bulletin*, 149: 110512. S50648
- Kwon, K., Choi, B.-J., Kim, K. Y. & Kim, K. (2019). Tracing the trajectory of pelagic *Sargassum* using satellite monitoring and Lagrangian transport simulations in the East China Sea and Yellow Sea. *Algae*, 34(4): 315-326. S50249
- Kır, M. (2020). Thermal tolerance and standard metabolic rate of juvenile gilthead seabream (*Sparus aurata*) acclimated to four temperatures. *Journal of Thermal Biology*, 93: 102739. S50804
- Layton, C., Coleman, M. A., Marzinelli, E. M., Steinberg, P. D., Swearer, S. E., Verges, A., Wernberg, T. & Johnson, C. R. (2020). Kelp forest restoration in Australia. *Frontiers in Marine Sciences*, 7(74): 1-12. S50454
- Lee, J. E. & Kang, J. W. (2020). The interactive effects of elevated temperature and nutrient concentrations on the physiological responses of *Ulva linza* Linnaeus (Ulvales, Chlorophyta). *Journal of Applied Phycology*, 32: 2459–2467. S50906
- Lim, D. D., Milligan, C. L. & Morbey, Y. E. (2020). Elevated incubation temperature improves later-life swimming endurance in juvenile Chinook salmon, *Oncorhynchus tshawytscha*. *Journal of Fish Biology*, 97(5): 1428-1439. S50882
- Manuel, A. V., Tu, P. T. C., Tsutsui, N. & Yoshimatsu, T. (2020). Effect of salinity change and exposure time on the egg stages of two abalone species *Haliotis discus discus* and *H. gigantea*. *Fisheries Science*, 86(1): 27-33. S50252
- Marks, L. M., Reed, D. C. & Holbrook, S. J. (2020). Niche complementarity and resistance to grazing promote the invasion success of *Sargassum horneri* in North America. *Diversity*, 12(2): 54. S50740
- Martins, N., Pearson, G. A., Bernard, J., Serro, E. A. & Bartsch, I. (2020). Thermal traits for reproduction and recruitment differ between Arctic and Atlantic kelp *Laminaria digitata*. *PLoS ONE*, 15(6): e0235388. S50587
- Mattiasen, E. G., Kashef, N. S., Stafford, D. M., Logan, C. A., Sogard, S. M., Bjorkstedt, E. P. & Hamilton, S. L. (2020). Effects of hypoxia on the behavior and physiology of kelp forest fishes. *Global Change Biology*, 26(6): 3498-3511. S50560
- McClanahan, T. R., Darling, E. S., Maina, J. M., Muthiga, N. A., D'agata, S., Leblond, J., Arthur, R.,

- Jupiter, S. D., Wilson, S. K., Mangubhai, S., Ussi, A. M., Guillaume, M. M. M., Humphries, A. T., Patankar, V., Shedrawi, G., Pagu, J. & Grimsditch, G. (2020). Highly variable taxa-specific coral bleaching responses to thermal stresses. *Marine Ecology Progress Series*, 648: 135-151. S50694
- Medrano, A., Hereu, B., Mariani, S., Neiva, J., Pags-Escol, M., Paulino, C., Rovira, G., Serro, E. A. & Linares, C. (2020). Ecological traits, genetic diversity and regional distribution of the macroalga *Treptacantha elegans* along the Catalan coast (NW Mediterranean Sea). *Scientific Reports*, 10: 19219. S50794
- Medrano, A., Linares, C., Aspillaga, E., Capdevila, P., Montero-Serra, I., Pags-Escol, M., Zabala, M. & Hereu, B. (2020). Long-term monitoring of temperate macroalgal assemblages inside and outside a No take marine reserve. *Marine Environmental Research*, 153: 1-9. S50260
- Merchant, N. D., Andersson, M. H., Box, T., Le Courtois, F., Cronin, D., Holdsworth, N., Kinneking, N., Mendes, S., Merck, T., Mouat, J., Norro, A. M. J., Ollivier, B., Pinto, C., Stamp, P. & Tougard, J. (2020). Impulsive noise pollution in the Northeast Atlantic: Reported activity during 2015 - 2017. *Marine Pollution Bulletin*, 152: 110951. S50393
- Mikami, K., Masuda, R., Takahashi, K., Sawada, H., Shirakawa, H. & Yamashita, Y. (2019). Seasonal and interannual variation in the density of visible *Apostichopus japonicus* (Japanese sea cucumber) in relation to sea water temperature. *Estuarine, Coastal and Shelf Science*, 229: 106384. S50280
- Millette, N. C., Pierson, J. J. & North, E. W. (2020). Water temperature during winter may control striped bass recruitment during spring by affecting the development time of copepod nauplii. *ICES Journal of Marine Science*, 77(1): 300-314. S50321
- Mitaura, M., Arai, N., Hori, M., Uchida, K., Kajiyama, M. & Ishii, M. (2020). Occurrence of a temperate coastal flatfish, the marbled flounder *Pseudopleuronectes yokohamae*, at high water temperatures in a shallow bay in summer detected by acoustic telemetry. *Fisheries Science*, 86(1): 77-85. S50253
- Morehead, D. T., Ritar, A. J. & Pankhurst, N. W. (2009). Estimating gonadal development using a non-destructive measurement of ovarian length in live Tasmanian striped trumpeter, *Latris lineata* (Forster, 1801). *Journal of Applied Ichthyology*, 25(2): 240-242. S50630
- Nagasato, C., Kawamoto, H., Tomioka, T., Tsuyazaki, S., Kosugi, C., Kato, T. & Motomura, T. (2020). Quantification of laminarialean zoospores in seawater by real-time PCR. *Phycological Research*, 68(1): 57-62. S50287
- Nakamura, M., Kumagai, N. H., Tamaoki, M., Arita, K., Ishii, Y., Nakajima, N. & Yabe, T. (2020). Photosynthesis and growth of *Ulva ohnoi* and *Ulva pertusa* (Ulvophyceae) under high light and high temperature conditions, and implications for green tide in Japan. *Phycological Research*, 68(2): 152-160. S50516

- Namba, M., Hashimoto, M., Ito, M., Momota, K., Smith, C., Yorisue, T. & Nakaoka, M. (2020). The effect of environmental gradient on biodiversity and similarity of invertebrate communities in eelgrass (*Zostera marina*) beds. *Ecological Research*, 35(1): 61-75. S50458
- Navarro, N., Huovinen, P. & Gómez, I. (2020). Life history strategies, photosynthesis, and stress tolerance in propagules of Antarctic seaweeds. In “Antarctic seaweeds” (eds. Gómez, I. and Huovinen, P), Springer, Cham, 193-215. S50605
- Nelson, J., Chanton, J., Coleman, F. & Koenig, C. (2011). Patterns of stable carbon isotope turnover in gag, *Mycteroperca microlepis*, an economically important marine piscivore determined with a non-lethal surgical biopsy procedure. *Environmental Biology of Fishes*, 90: 243-252. S50632
- Nevarez-Lopez, C. A., Snachez-Paz, A., Lopez-Martinez, J., Llera-Herrera, R. & Muhlia-Almazan, A. (2020). Metabolic response of the cannonball jellyfish *Stomolophus meleagris* upon short-term exposure to thermal stress. *Journal of Sea Research*, 166: 101959. S50834
- Rasmusson, L. M., Buapet, P., George, G., Gullström, M., Gunnarsson, P. C. B. & Björk, M. (2020). Effects of temperature and hypoxia on respiration, photorespiration, and photosynthesis of seagrass leaves from contrasting temperature regimes. *ICES Journal of Marine Science*, 77(6): 2056–2065. S50830
- Reeder, P. B. & Ache, B. W. (1980). Chemotaxis in the Florida spiny lobster, *Panulirus argus*. *Animal Behaviour*, 28(3): 831-839. S50615
- Sato, Y., Kozono, J., Nishihara, G. N. & Terada, R. (2020). Effect of light and temperature on photosynthesis of a cultivated brown alga, *Saccharina sculpera* (Laminariales), from Japan. *Phycologia*, 59(4): 375-384. S50610
- Sheehan, C. E., Baker, K. G., Nielsen, D. A. & Petrou, K. (2020). Temperatures above thermal optimum reduce cell growth and silica production while increasing cell volume and protein content in the diatom *Thalassiosira pseudonana*. *Hydrobiologia*, 847: 4233–4248. S50835
- Siegel, P., Baker, K. G., Low-Dcarie, E. & Geider, R. J. (2020). High predictability of direct competition between marine diatoms under different temperatures and nutrient states. *Ecology and Evolution*, 10(14): 7276-7290. S50623
- Smale, D. A., Pessarrodona, A., King, N., Burrows, M. T., Yunnice, A., Vance, T. & Moore, P. (2020). Environmental factors influencing primary productivity of the forest-forming kelp *Laminaria hyperborea* in the northeast Atlantic. *Scientific Reports*, 10: 12161. S50606
- Tanaka, H., Nakagawa, T., Yokota, T., Chimura, M., Yamashita, Y. & Funamoto, T. (2020). Effects of non-spawning season (yolkless to early yolk formation stage) temperature on growth and reproductive characteristics in hatchery-reared, repeat-spawning walleye pollock *Gadus chalcogrammus*. *Fisheries Science*, 86: 807-817. S50675
- Terada, R., Nakashima, Y., Borlongan, I. A., Shimabukuro, H., Kozono, J., Endo, H., Shimada, S. & Nishihara, G. N. (2020). Photosynthetic activity including the thermal- and chilling-light

- sensitivities of a temperate Japanese brown alga *Sargassum macrocarpum*. Phycological Research, 68(1): 70-79. S50286
- Terada, R., Yuge, T., Watanabe, Y., Mine, T., Morikawa, T. & Nishihara, G. N. (2020). Chronic effects of three different stressors, irradiance, temperature, and desiccation, on the PSII photochemical efficiency in the heteromorphic life-history stages of cultivated *Pyropia yezoensis* f. *narawaensis* (Bangiales) from Japan. Journal of Applied Phycology, 32: 3273-3284. S50533
- Webb, M. A. H., Van Eenennaam, J. P., Crossman, J. A. & Chapman, F. A. (2019). A practical guide for assigning sex and stage of maturity in sturgeons and paddlefish. Journal of Applied Ichthyology, 35(1): 169-186. S50631
- Webb, T. J., Lines, A. & Howarth, L. M. (2020). Occupancy-derived thermal affinities reflect known physiological thermal limits of marine species. Ecology and Evolution, 10(14): 7050-7061. S50622
- Wernberg, T., Krumhans, K., Filbee-Dexter, K. & Pedersen, M. F. (2019). Status and trends for the world's kelp forests. World seas: An environmental evaluation, volume III: Ecological issues and environmental impacts, 3: 57-78. S50590
- Wesselmann, M., Anton, A., Duarte, C. M., Hendriks, I. E., Agustí, S., Savva, I., Apostolaki, E. T. & Marba, N. (2020). Tropical seagrass *Halophila stipulacea* shifts thermal tolerance during Mediterranean invasion. Proceedings of the Royal Society of London - B, 287: 1922. S50455
- Whitman, T. N., Negri, A. P., Bourne, D. G. & Randall, C. J. (2020). Settlement of larvae from four families of corals in response to a crustose coralline alga and its biochemical morphogens. Scientific Reports, 10: 16397. S50721
- Wylie, M. J., Forbes, E. L. & Lokman, P. M. (2013). Ovarian biopsy: a non-terminal method to determine reproductive status in giant kokopu, *Galaxias argenteus* (Gmelin 1789). New Zealand Veterinary Journal, 61(5): 292-296. S50633
- Xu, F., Gao, T. & Liu, X. (2020). Metabolomics adaptation of juvenile Pacific abalone *Haliotis discus hannai* to heat stress. Scientific Reports, 10: 6353. S50457
- Yoshioka, S., Kato, A., Koike, K., Murase, N., Baba, M. & Liao, L. M. (2020). Effects of water temperature, light and nitrate on the growth of sporelings of the non-geniculate coralline alga *Lithophyllum okamurae* (Corallinales, Rhodophyta). Journal of Applied Phycology, 32: 1923-1931. S50382
- Zhang, X., Zhou, Y., Xu, S., Wang, P., Zhao, P., Yue, S., Gu, R., Song, X., Xu, S., Liu, J.-X. & Wang, X. (2020). Differences in reproductive effort and sexual recruitment of the seagrass *Zostera japonica* between two geographic populations in northern China. Marine Ecology Progress Series, 638: 65-81. S50531

気候変動・地球温暖化・海洋酸性化

- 吾妻行雄 (2019). 世界のウニ漁業と養殖の実情 気候変動が生産に与える影響とは. 養殖ビジネス, 56(13): 9-12. S50330
- 荒巻能史 (2020). 日本海で進行する気候変動の影響. 水産工学, 56(3): 181-184. S50370
- 金谷 弦・伊藤 萌 (2020). 気候変動がもたらす沿岸生態系の変化—海の生き物はどのように変わるのか—. 瀬戸内海, 79: 9-12. S50435
- 木所英昭 (2020). 日本における気候変動による水産業への影響評価. アクアネット, 23(7): 22-27. S50618
- 倉島 彰 (2020). 日本沿岸の藻場と温暖化. グリーン・エージ, 47(6): 16-19. S50700
- 栗原晴子 (2020). サンゴ礁生態系への酸性化影響. 日本女性科学者の会学術誌, 20(1): 41-50. S50874
- 小松輝久・水野紫津葉・佐川龍之・高山勝巳・広瀬直毅 (2020). 地球温暖化と藻場: 日本海を中心としたアカモク分布の変化. 沿岸海洋研究, 58(1): 61-63. S50684
- 藤井賢彦 (2020). 地球温暖化・海洋酸性化が日本沿岸の海洋生態系や社会に及ぼす影響. 水産工学, 56(3): 191-195. S50372
- 堀 正和 (2020). 海洋の二酸化炭素吸収源 ブルーカーボンに関連した国際情勢と国内の動向. アクアネット, 23(7): 42-47. S50620
- 堀 正和 (2020). ブルーカーボンを利用した気候変動の緩和適応策の実践 —海藻草場を利用した増養殖の展開—. 水産工学, 56(3): 197-200. S50373
- 松田 治 (2020). 気候変動への「適応」をどう考えるか? —瀬戸内海の課題と取り組み—. アクアネット, 23(7): 48-52. S50621
- 三浦 浩・伊藤 靖・河野大輔・中西 豪 (2020). 気候変動に対応する漁場整備. 水産工学, 56(3): 185-190. S50371
- 山本智之 (2020). 温暖化と日本の海/天然コンブが消える? 月刊 グリーン・パワー, 2020年2月号: 14. S50351
- Adame, K., Elorriaga-Verplancken, F. R., Beier, E., Acevedo-Whitehouse, K. & Pardo, M. A. (2020). The demographic decline of a sea lion population followed multi-decadal sea surface warming. *Scientific Reports*, 10: 10499. S50574
- Armstrong, E. J., Dubousquet, V., Mills, S. C. & Stillman, J. H. (2020). Elevated temperature, but not acidification, reduces fertilization success in the small giant clam, *Tridacna maxima*. *Marine Biology*, 167: 8. S50271
- Atkins, J., King, N. G., Wilmes, A., B. & Moore, P. J. (2020). Summer and winter marine heatwaves favor an invasive over native seaweeds. *European Journal of Phycology*, 56(6): 1591-1600. S50904
- Baloh, R. & Byrne, M. (2020). Developing in a warming intertidal, negative carry over effects of

- heatwave conditions in development to the pentamer starfish in *Parvulastra exigua*. *Marine Environmental Research*, 162: 105083. S50782
- Baptista, J., Martinho, F., Martins, R., Carneiro, M., Azevedo, M., Vieira, A. R., Gomes, P. & Pardal, M. A. (2019). Water temperature gradient shapes the structure and composition of nearshore marine fish communities in southern Europe. *Journal of Sea Research*, 154: 101807. S50378
- Baral, A. (2020). A seaweed's response to a warming world. *Physiologia Plantarum*, 168: 3-4. S50301
- Benthuyzen, J. A., Oliver, E. C. J., Chen, K. & Wernberg, T. (2020). Editorial: Advances in understanding marine heatwaves and their impacts. *Frontiers in Marine Science*, 7(147): 1-4. S50456
- Birkmanis, C. A., Freer, J. J., Simmons, L. W., Partridge, J. C. & Sequeira, A. M. M. (2020). Future distribution of suitable habitat for pelagic sharks in Australia under climate change models. *Frontiers in Marine Science*, 7(570): 1-11. S50809
- Boatman, T. G., Upton, G. J. G., Lawson, T. & Geider, R. J. (2020). Projected expansion of *Trichodesmium*'s geographical distribution and increase in growth potential in response to climate change. *Global Change Biology*, 26(11): 6445-6456. S50771
- Britten, G. L. & Sibert, E. C. (2020). Enhanced fish production during a period of extreme global warmth. *Nature Communications*, 11: 5636. S50798
- Britton, D., Schmid, M., Noisette, F., Havenhand, J. N., Paine, E. R., McGraw, C. M., Revill, A. T., Virtue, P., Nichols, P. D., Mundy, C. N. & Hurd, C. L. (2020). Adjustments in fatty acid composition is a mechanism that can explain resilience to marine heatwaves and future ocean conditions in the habitat-forming seaweed *Phyllospora comosa* (Labillardière) C. Agardh. *Global Change Biology*, 26(6): 3512-3524. S50909
- Burrows, M. T., Bates, A. E., Costello, M. J., Edwards, M., Edgar, G. J., Fox, C. J., Halpern, B. S., Hiddink, J. G., Pinsky, M. L., Batt, R. D., Mlinos, J. G., Payne, B. L., Schoeman, D. S., Stuart-Smith, R. D. & Poloczanska, E. S. (2019). Ocean community warming responses explained by thermal affinities and temperature gradients. *Nature Climate Change*, 9: 959-963. S50281
- Burrows, M. T., Hawkins, S. J., Moore, J. J., Adams, L., Sugden, H., Firth, L. & Mieszkowska, N. (2020). Global-scale species distributions predict temperature-related changes in species composition of rocky shore communities in Britain. *Global Change Biology*, 26(4): 2093-2105. S50379
- Butler, C. L., Lucieer, V. L., Wotherspoon, S. J. & Johnson, C. R. (2020). Multi-decadal decline in cover of giant kelp *Macrocystis pyrifera* at the southern limit of its Australian range. *Marine Ecology Progress Series*, 653: 1-18. S50789
- Byrne, M. & Hernandez, J. C. (2020). Chapter 16 - Sea urchins in a high CO₂ world: Impacts of climate warming and ocean acidification across life history stages. *Developments in Aquaculture and Fisheries Science*, 43: 281-297. S50296

- Campana, S. E., Stefánsdóttir, R. B., Jakobsdóttir, K. & Solmundsson, J. (2020). Shifting fish distributions in warming sub-Arctic oceans. *Scientific Reports*, 10: 16448. S50897
- Campbell, H., Ledet, J., Poore, A. G. B. & Byrne, M. (2020). Thermal tolerance in the amphipod *Sunamphitoe parmerong* from a global warming hotspot, acclimatory carryover effects within generation. *Marine Environmental Research*, 160: 105048. S50601
- Castro, L. C., Cetina-Heredia, P., Roughan, M., Dworjanyan, S., Thibaut, L., Chamberlain, M. A. & Feng, M. (2020). Combined mechanistic modelling predicts changes in species distribution and increased co-occurrence of a tropical urchin herbivore and a habitat-forming temperate kelp. *Diversity and Distributions*, 26(9): 1211-1226. S50828
- Coleman, M. A., Minne, A. J. P., Vranken, S. & Wernberg, T. (2020). Genetic tropicalisation following a marine heatwave. *Scientific Reports*, 10: 12726. S50626
- Coleman, M. A., Wood, G., Filbee-Dexter, K., Minne, A. J. P., Goold, H. D., Vergs, A., Marzinelli, E. M., Steinberg, P. D. & Wernberg, T. (2020). Restore or redefine: Future trajectories for restoration. *Frontiers in Marine Science*, 7(237): 1-12. S50550
- Contreras-Silva, A. I., Tilstra, A., Migani, V., Thiel, A., Prez-Cervantes, E., Estrada-Saldvar, N., Elias-Ilosvay, X., Mott, C., Alvarez-Filip, L. & Wild, C. (2020). A meta-analysis to assess long-term spatiotemporal changes of benthic coral and macroalgae cover in the Mexican Caribbean. *Scientific Reports*, 10: 8897. S50538
- Cornwall, C. E., Comeau, S., DeCarlo, T. M., Larcombe, E., Moore, B., Giltrow, K., Puerzer, F., D'Alexis, Q. & McCulloch, M. T. (2020). A coralline alga gains tolerance to ocean acidification over multiple generations of exposure. *Nature Climate Change*, 10: 143-146. S50299
- Crear, D. P., Brill, R. W., Averilla, L. M. L., Meakem, S. C. & Weng, K. C. (2020). In the face of climate change and exhaustive exercise: the physiological response of an important recreational fish species. *Royal Society Open Science*, 7(3): 1-13. S50816
- Dahlke, F. T., Wohlrab, S., Butzin, M. & Portner, H.-O. (2020). Thermal bottlenecks in the life cycle define climate vulnerability of fish. *Science*, 369(6499): 65-70. S50814
- Dahlke, F., Lucassen, M., Bickmeyer, U., Wohlrab, S., Puvanendran, V., Mortensen, A., Chierici, M., Portner, H.-O. & Storch, D. (2020). Fish embryo vulnerability to combined acidification and warming coincides with a low capacity for homeostatic regulation. *Journal of Experimental Biology*, 223: jeb212589. S50893
- Denechaud, C., Smoliski, S., Geffen, A. J., Godiksen, J. A. & Campana, S. E. (2020). A century of fish growth in relation to climate change, population dynamics and exploitation. *Global Change Biology*, 26(10): 5661-5678. S50703
- Des, M., Martnez, B., deCastro, M., Viejo, R. M., Sousa, M. C. & Gmez-Gesteiram, M. (2020). The impact of climate change on the geographical distribution of habitat-forming macroalgae in the Rías Baixas. *Marine Environmental Research*, 161: 105074. S50655

- Dexter, E. & Bollens, S. M. (2020). Zooplankton invasions in the early 21st century: a global survey of recent studies and recommendations for future research. *Hydrobiologia*, 847: 309-319. S50297
- Dtre, C., Ortiz, A. & Navarro, J. M. (2020). Combined effects of warming and freshening on the physiological energetics of the edible whelk *Trophon geversianus*. *Marine Environmental Research*, 153: 1-6. S50257
- D'Amario, B., Prez, C., Grelaud, M., Pitta, P., Krasakopoulou, E. & Ziveri, P. (2020). Coccolithophore community response to ocean acidification and warming in the Eastern Mediterranean Sea: results from a mesocosm experiment. *Scientific Reports*, 10: 12637. S50611
- Endo, H., Sato, Y., Kaneko, K., Takahashi, D., Nagasawa, K., Okumura, Y. & Agatsuma, Y. (2020). Ocean warming combined with nutrient enrichment increases the risk of herbivory during cultivation of the marine macroalga *Undaria pinnatifida*. *ICES Journal of Marine Science*, fsaa069. S50561
- Fernandes, J. A., Rutterford, L., Simpson, S. D., Butenschn, M., Frlicher, T. L., Yool, A., Cheng, W. W. L. & Grant, A. (2020). Can we project changes in fish abundance and distribution in response to climate? *Global Change Biology*, 26(7): 3891-3905. S50602
- Filbee-Dexter, K., Wernberg, T., Grace, S. P., Thormar, J., Fredriksen, S., Narvaez, C. N., Feehan, C. J. & Norderhaug, K. M. (2020). Marine heatwaves and the collapse of marginal North Atlantic kelp forests. *Scientific Reports*, 10: 13388. S50638
- Fledston-Hermann, A., Selden, R., Pinsky, M., Gaines, S. D. & Halpern, B. S. (2020). Cold range edges of marine fishes track climate change better than warm edges. *Global Change Biology*, 26(5): 2908-2922. S50521
- Fredriksen, S., Filbee-Dexter, K., Norderhaug, K. M., Steen, H., Bodvin, T., Coleman, M. A., Moy, F. & Wernberg, T. (2020). Green gravel: A novel restoration tool to combat kelp forest decline. *Scientific Reports*, 10: 3983. S50453
- Friedland, K. D., Langan, J. A., Large, S. I., Selden, R. L., Link, J. S., Watson, R. A. & Collie, J. S. (2020). Changes in higher trophic level productivity, diversity and niche space in a rapidly warming continental shelf ecosystem. *Science of the Total Environment*, 704: 135270. S50892
- Friedlander, A. M., Ballesteros, E., Bell, T. W., Caselle, J. E., Campagna, C., Goodell, W., Hne, M., Muoz, A., Salinas-de-Len, P., Sala, P. & Dayton, P. K. (2020). Kelp forests at the end of the earth: 45 years later. *PLoS ONE*, 15(3): e0229259. S50800
- Garca-Echauri, L. L., Liggins, G., Cetina-Heredia, P., Roughan, M., Coleman, M. A. & Jeffs, A. (2020). Future ocean temperature impacting the survival prospects of post-larval spiny lobsters. *Marine Environmental Research*, 156: 104918. S50326
- Genin, A., Levy, L., Sharon, G., Raitzos, D. E. & Diamant, A. (2020). Rapid onsets of warming events trigger mass mortality of coral reef fish. *Proceedings of the National Academy of Sciences of*

- the United States of America, 117(41): 25378-25385. S50898
- Gorman, D., Horta, P., Flores, A. A., Turra, A., Berchez, F. A. S., Batistam M. B., Filho, E. S. L., Melo, M. S., Ignacio, B. L., Carneiro, I. M., Villaa, R. C. & Szchy, M. T. M. (2020). Decadal losses of canopy-forming algae along the warm temperate coastline of Brazil. *Global Change Biology*, 26(3): 1446-1457. S50756
- Gouva, L. P., Assis, J., Gurgel, C. F. D., Serro, E. A., Silveira, T. C. L., Santos, R., Duarte, C. M., Peres, L. M. C., Carvalho, V. F., Batista, M., Bastos, E., Sissini, M. N. & Horta, P. A. (2020). Golden carbon of *Sargassum* forests revealed as an opportunity for climate change mitigation. *Science of The Total Environment*, 729: 138745. S50559
- Graham, N. A. J., Robinson, J. P. W., Smith, S. E., Govinden, R., Gendron, G. & Wilson, S. K. (2020). Changing role of coral reef marine reserves in a warming climate. *Nature Communications*, 11: 2000. S50459
- Gravinese, P. M., Page, H. N., Butler, C. B., Spadara, A. J., Hewett, C., Considine, M., Lankes, D. & Fisher, S. (2020). Ocean acidification disrupts the orientation of postlarval Caribbean spiny lobsters. *Scientific Reports*, 10: 18092. S50774
- Grear, J. S., O'Leary, C. A., Nye, J. A., Tettelbach, S. T. & Gobler, C. J. (2020). Effects of coastal acidification on North Atlantic bivalves: interpreting laboratory responses in the context of *in situ* populations. *Marine Ecology Progress Series*, 633: 89-104. S50279
- Grear, J., Pimenta, A., Booth, H., Horowitz, D. B., Mendoza, W. & Lieman, M. (2020). In situ recovery of bivalve shell characteristics after temporary exposure to elevated $p\text{CO}_2$. *Limnology and Oceanography*, 65(10): 2328-2336. S50881
- Guan, Y., Hohn, S., Wild, C. & Merico, A. (2020). Vulnerability of global coral reef habitat suitability to ocean warming, acidification and eutrophication. *Global Change Biology*, 26(10): 5646-5660. S50704
- Gårdmark, A. & Huss, M. (2020). Individual variation and interactions explain food web responses to global warming. *Philosophical Transactions, Royal Society B*, 375: 20190449. S50896
- Hancock, A. M., King, C. K., Stark, J. S., McMinn, A. & Davidson, A. T. (2020). Effects of ocean acidification on Antarctic marine organisms: A meta-analysis. *Ecology and Evolution*, 10(10): 4495-4514. S50552
- Hastings, R. A., Rutterford, L. A., Freer, J. J., Collins, R. A., Simpson, S. D. & Genner, M. J. (2020). Climate change drives poleward increases and equatorward declines in marine species. *Current Biology*, 30(8): 1572-1577. S50902
- Hemraj, D. A., Posnett, N. C., Minuti, J. J., Firth, L. B. & Russell, B. D. (2020). Survived but not safe: Marine heatwave hinders metabolism in two gastropod survivors. *Marine Environmental Research*, 162: 105117. S50783
- Hernandez, J. C., Clemente, S., Garcia, E. & McAlister, J. S. (2020). Planktonic stages of the

- ecologically important sea urchin, *Diadema africanum*: larval performance under near future ocean conditions. *Journal of Plankton Research*, 42(3): 286–304. S50693
- Hiraoka, M., Tanaka, K., Yamasaki, T. & Miura, O. (2019). Replacement of *Ulva ohnoi* in the type locality under rapid ocean warming in southwestern Japan. *Journal of Applied Phycology*, 32: 2489-2494. S50352
- Horwitz, R., Norin, T., Watson, S. A., Pistevo, J. C. A., Beldade, R., Hacquart, S., Gattuso, J.-P., Rodolfo-Metalpa, R., Vidal-Dupiol, J., Killen, S. S. & Mills, S. C. (2020). Near-future ocean warming and acidification alter foraging behaviour, locomotion, and metabolic rate in a keystone marine mollusc. *Scientific Reports*, 10: 5461. S50890
- Hue, T., Chateau, O., Lecellier, G., Kayal, M., Lanos, N., Gossuin, H., Adjeroud, N. & Dumas, P. (2020). Temperature affects the reproductive outputs of coral-eating starfish *Acanthaster* spp. after adult exposure to near-future ocean warming and acidification. *Marine Environmental Research*, 162: 105164. S50784
- Iwabuchi, B. L. & Gosselin, L. A. (2020). Implications of acute temperature and salinity tolerance thresholds for the persistence of intertidal invertebrate populations experiencing climate change. *Ecology and Evolution*, 10(14): 7739-7754. S50624
- Jorda, G., Marb, N., Bennett, S., Santana-Garcon, J., Agusti, S. & Duarte, C. M. (2020). Ocean warming compresses the three-dimensional habitat of marine life. *Nature Ecology & Evolution*, 4: 109-114. S50282
- Karelitz, S., Lamare, M., Patel, F., Gemmel, N. & Uthicke, S. (2020). Parental acclimation to future ocean conditions increases development rates but decreases survival in sea urchin larvae. *Marine Biology*, 167: 2. S50270
- Khan, F. U., Hu, M., Kong, H., Shang, Y., Wang, T., Wang, X., Xu, R., Lu, W. & Wang, Y. (2020). Ocean acidification, hypoxia and warming impair digestive parameters of marine mussels. *Chemosphere*, 256: 127096. S50894
- Kirezci, E., Young, I. R., Ranasinghe, R., Muis, S., Nicholls, R. J., Lincke, D. & Hinkel, J. (2020). Projections of global-scale extreme sea levels and resulting episodic coastal flooding over the 21st Century. *Scientific Reports*, 10: 11629. S50625
- Kumar, A., Buia, M. C., Palumbo, A., Mohany, M., Wadaan, M. A. M., Hozzein, W. N. & Beemster, G. T. S. (2020). Ocean acidification affects biological activities of seaweeds: A case study of *Sargassum vulgare* from Ischia volcanic CO₂ vents. *Environmental Pollution*, 259: 113765. S50907
- Kwiatkowski, L., Torres, O., Bopp, L., Aumont, O., Chamberlain, M., Christian, J. R., Dunne, J. P., Gehlen, M., Ilyina, T., John, J. G., Lenton, A., Li, H., Lovenduski, N. S., Orr, J. C., Palmieri, J., Santana-Falcón, Y., Schwinger, J., Séférian, R., Stock, C. A., Tagliabue, A., Takano, Y., Tjiputra, J., Toyama, K., Tsujino, H., Watanabe, M., Yamamoto, A., Yool, A. & Ziehn, T. (2020).

- Twenty-first century ocean warming, acidification, deoxygenation, and upper-ocean nutrient and primary production decline from CMIP6 model projections. *Biogeosciences*, 17(13): 3439–3470. S50888
- Laeseke, P., Martnez, B., Mansilla, A. & Biscof, K. (2020). Future range dynamics of the red alga *Capreolia implexa* in native and invaded regions: contrasting predictions from species distribution models versus physiological knowledge. *Biological Invasions*, 22: 1339–1352. S50417
- Laufkötter, C., Zscheischler, J. & Frölicher, T. L. (2020). High-impact marine heatwaves attributable to human-induced global warming. *Science*, 369(6511): 1621-1625. S50899
- Lawlor, J. A. & Arellano, S. M. (2020). Temperature and salinity, not acidification, predict near-future larval growth and larval habitat suitability of *Olympia* oysters in the Salish Sea. *Scientific Reports*, 10: 13787. S50640
- Lei, X., Jiang, L., Zhang, Y., Zhou, G., Lian, J. & Huang, H. (2020). Response of coralline algae *Porolithon onkodes* to elevated seawater temperature and reduced pH. *Acta Oceanologica Sinica*, 39(2): 132-137. S50288
- Lenoir, J., Bertrand, R., Comte, L., Bougeaud, L., Hattab, T., Murienne, J. & Grenouillet, G. (2020). Species better track climate warming in the oceans than on land. *Nature Ecology & Evolution*, 4(8): 1044-1059. S50903
- Li, F., Mu, F.-H., Liu, X.-S., Xu, X.-X. & Cheung, S. G. (2020). Predator prey interactions between predatory gastropod *Reishia clavigera*, barnacle *Amphibalanus amphitrite amphitrite* and mussel *Brachidontes variabilis* under ocean acidification. *Marine Pollution Bulletin*, 152: 110895. S50289
- Li, J.-J., Huang, S.-H., Liu, Z.-Y. & Bi, Y.-X. (2020). Climate-driven range shifts of brown seaweed *Sargassum horneri* in the Northwest Pacific. *Frontiers in Marine Science*, 7: 570881. S50730
- Liesner, D., Shama, L. N. S., Diehl, N., Valentin, K. & Bartsch, I. (2020). Thermal plasticity of the kelp *Laminaria digitata* (Phaeophyceae) across life cycle stages reveals the importance of cold seasons for marine forests. *Frontiers in Marine Science*, 7: 456. S50573
- Little, A. G., Longhland, I. & Seebacher, F. (2020). What do warming waters mean for fish physiology and fisheries? *Journal of Fish Biology*, 97(2): 328-340. S50687
- Lonhart, S. I., Jeppesen, R., Beas-Luna, R., Crooks, J. A. & Lorda, J. (2019). Shifts in the distribution and abundance of coastal marine species along the eastern Pacific Ocean during marine heatwaves from 2013 to 2018. *Marine Biodiversity Records*, 12: 13. S50671
- Lovelock, C. E. & Reef, R. (2020). Variable impacts of climate change on blue carbon. *One Earth*, 3(2): 195-211. S50822
- Madeira, D., Madeira, C., Costa, P. M., Vinagre, C., Prtner, O. & Diniz, M. S. (2020). Different sensitivity to heatwaves across the life cycle of fish reflects phenotypic adaptation to

- environmental niche. *Marine Environmental Research*, 162: 105192. S50805
- Maltby, K. M., Rutterford, L. A., Tinker, J., Genner, M. J. & Simpson, S. D. (2020). Projected impacts of warming seas on commercially fished species at a biogeographic boundary of the European continental shelf. *Journal of Applied Ecology*, 57(11): 2222-2233. S50891
- Martins, I., Azevedo, A., Gomz, I. & Valente, L. M. P. (2020). Variation on the standing stock of *Gracilaria* sp. in a temperate estuary under single-stressor and multiple-stressor climate change scenarios. *Algal Research*, 51: 102079. S50795
- Murcia, S., Riul, P., Mendez, F., Rodriguez, J. P., Rosenfield, S., Ojeda, J., Marambio, J. & Mansilla, A. (2020). Predicting distributional shifts of commercially important seaweed species in the Subantarctic tip of South America under future environmental changes. *Journal of Applied Phycology*, 32: 2105-2114. S50418
- Musa, S. M., Ripley, D. M., Moritz, T. & Sheils, H. A. (2020). Ocean warming and hypoxia affect embryonic growth, fitness and survival of small-spotted catsharks, *Scyliorhinus canicula*. *Journal of Fish Biology*, 97(1): 257-264. S50627
- Nagelkerken, I., Goldenberg, S. U., Ferreira, C. M., Ullah, H. & Connell, S. D. (2020). Trophic pyramids reorganize when food web architecture fails to adjust to ocean change. *Science*, 369(6505): 829-832. S50686
- Ng, C. A. & Micheli, F. (2020). Short-term effects of hypoxia are more important than effects of ocean acidification on grazing interactions with juvenile giant kelp (*Macrocystis pyrifera*). *Scientific Reports*, 10: 5403. S50413
- Nguyen, T. T., Le, M.-H., Doan, N. X., Pham, H. Q., Vu, M. T. T. & Dinh, K. V. (2020). Artificial light pollution increases the sensitivity of tropical zooplankton to extreme warming. *Environmental Technology & Innovation*, 20: 101179. S50889
- Nishida, K., Chin, C. Y., Miyairi, Y., Hirabayashi, S., Suzuki, A., Hayashi, M., Yamamoto, Y., Sato, M., Nojiri, Y. & Yokoyama, Y. (2020). Novel reverse radioisotope labelling experiment reveals carbon assimilation of marine calcifiers under ocean acidification conditions. *Methods in Ecology and Evolution*, 2020: 1-12. S50471
- Oliver, E. C. J., Burrows, M. T., Donat, M. G., Sen Gupta, A., Alexander, L. V., Perkins-Kirkpatrick, S. E., Benthuyzen, J. A., Hobday, A. J., Holbrook, N. J., Moore, P. J., Thomsen, M. S., Wernberg, T. & Smale, D. A. (2019). Projected marine heatwaves in the 21st century and the potential for ecological impact. *Frontiers in Marine Science*, 6(734): 1-12. S50246
- Pimentel, M. S., Faleiro, F., Machado, J., Pouso-Ferreira, P. & Rosa, R. (2020). Seabream larval physiology under ocean warming and acidification. *Fishes*, 5(1): 1-13. S50815
- Pulina, S., Suikkanen, S., Padedda, B. M., Brutemark, A., Grubisic, L. M., Satta, C. T., Caddeo, T., Farina, P. & Lugli, A. (2020). Responses of a Mediterranean coastal lagoon plankton community to experimental warming. *Marine Biology*, 167: 22. S50273

- Ramos, E., Guinda, X., Puente, A., de la Hoz, C. F. & Juanes, J. A. (2020). Changes in the distribution of intertidal macroalgae along a longitudinal gradient in the northern coast of Spain. *Marine Environmental Research*, 157: 104930. S50380
- Rlfer, L., Reuter, H., Ferse, S. C. A., Kubicek, A., Dove, S., Hoegh-Guldberg, O. & Bender-Champ, D. (2021). Coral-macroalgal competition under ocean warming and acidification. *Journal of Experimental Marine Biology and Ecology*, 534: 151477. S50833
- Rogers-Bennett, L. & Catton, C. A. (2020). Marine heat wave and multiple stressors tip bull kelp forest to sea urchin barrens. *Scientific Reports*, 9: 15050. S50799
- Román, M., Román, S., Vázquez, E., Troncoso, J. & Olabarria, C. (2020). Heatwaves during low tide are critical for the physiological performance of intertidal macroalgae under global warming scenarios. *Scientific Reports*, 10: 21408. S50878
- Sadykova, D., Scott, B. E., De Dominicis, M., Wakelin, S. L., Wolf, J. & Sadykov, A. (2020). Ecological costs of climate change on marine predator–prey population distributions by 2050. *Ecology and Evolution*, 10(2): 1069-1086. S50285
- Sen Gupta, A., Thomsen, M., Benthuisen, J. A., Hobday, A. J., Oliver, E., Alexander, L. V., Burrows, M. T., Donat, M. G., Feng, M., Holbrook, N. J., Perkins-Kirkpatrick, S., Moore, P. J., Rodrigues, R. R., Scannell, H. A., Taschetto, A. S., Ummenhofer, C. C., Wernberg, T. & Smale, D. A. (2020). Drivers and impacts of the most extreme marine heatwaves events. *Scientific Reports*, 10: 19359. S50802
- Shanks, A. L., Rasmuson, L. K., Valley, J. R., Jarvis, M. A., Salant, C., Sutherland, D. A., Lamont, E. I., Hainey, M. A H. & Emllet, R. B. (2020). Marine heat waves, climate change, and failed spawning by coastal invertebrates. *Limnology and Oceanography*, 65(3): 627-636. S50424
- Simon-Nutbrown, C., Hollingsworth, P. M., Fernandes, T. F., Kamphausen, L., Baxter, J. M. & Burdett, H. L. (2020). Species distribution modeling predicts significant declines in coralline algae populations under projected climate change with implications for conservation policy. *Frontiers in Marine Science*, 7: 575825. S50724
- Smoliski, S., Deplanque-Lasserre, J., Hjrleifsson, E., Gefen, A. J., Godiksen, J. A. & Campana, S. E. (2020). Century-long cod otolith biochronology reveals individual growth plasticity in response to temperature. *Scientific Reports*, 10: 16708. S50722
- Snchez-Barredo, M., Sandoval-Gil, J. M., Zertuche-Gonzlez, J. A., Ladah, L. B., Belando-Torrenes, M. D., Beas-Luna, R. & Cabello-Pasini, A. (2020). Effects of heat waves and light deprivation on giant kelp juveniles (*Macrocystis pyrifera*, Laminariales, Phaeophyceae). *Journal of Phycology*, 56(4): 880-894. S50639
- Spady, B. L., Munday, P. L. & Watson, S.-A. (2020). Elevated seawater $p\text{CO}_2$ affects reproduction and embryonic development in the pygmy squid, *Idiosepius pygmaeus*. *Marine Environmental Research*, 153: 104812. S50259

- Storlazzi, C. D., Cheriton, O. M., van Hooidonk, R., Zhao, Z. & Brainard, R. (2020). Internal tides can provide thermal refugia that will buffer some coral reefs from future global warming. *Scientific Reports*, 10: 13435. S50641
- Straub, S. C., Wernberg, T., Thomsen, M. S., Moore, P. J., Burrows, M. T., Harvey, B. P. & Smale, D. A. (2019). Resistance, extinction, and everything in between – The diverse responses of seaweeds to marine heatwaves. *Frontiers in Marine Science*, 6: 763. S50247
- Strøm, J. F., Thorstad, E. B. & Rikardsen, A. H. (2020). Thermal habitat of adult Atlantic salmon *Salmo salar* in a warming ocean. *Journal of Fish Biology*, 96(2): 327-336. S50900
- Uthicke, S., Patel, F., Karelitz, S., Luter, H. M., Webster, N. S. & Lamare, M. D. (2020). Key biological responses over two generations of the sea urchin *Echinometra* sp. A under future ocean conditions. *Marine Ecology Progress Series*, 637: 87-101. S50369
- Vye, S. R., Dickens, S., Adams, L., Bohn, K., Chenery, J., Dobson, N., Dunn, R. E., Earp, H. S., Evans, M., Foster, C., Grist, H., Holt, B., Hull, S., Jenkins, S. R., Lamont, P., Long, S., Mieszkowska, N., Millard, J., Morrall, Z., Pack, K., Parry-Wilson, H., Pocklington, J., Pottas, J., Richardson, L., Scott, A., Sugden, H., Watson, G., West, V., Winton, D., Delany, J. & Burrows, M. T. (2020). Patterns of abundance across geographical ranges as a predictor for responses to climate change: Evidence from UK rocky shores. *Diversity and Distribution*, 26(10): 1357-1365. S50741
- Wahl, M., Werner, F. J., Buchholz, B., Raddatz, S., Graiff, A., Matthiessen, B., Karsten, U., Hiebenthal, C., Hamer, J., Ito, M., Gulzow, E., Rilov, G. & Guy-Haim, T. (2020). Season affects strength and direction of the interactive impacts of ocean warming and biotic stress in a coastal seaweed ecosystem. *Limnology and Oceanography*, 64(5): 807-827. S50483
- Wahlstrom, I., Hoglund, A., Almroth-Rosell, E., MacKenzie, B. R., Groger, M., Eilola, K., Plikshs, M. & Andersson, H. C. (2020). Combined climate change and nutrient load impacts on future habitats and eutrophication indicators in a eutrophic coastal sea. *Limnology and Oceanography*, 65(9): 2170-2187. S50720
- Wang, H. Y., Shen, S. F., Chen, Y. S., Kiang, Y. K. & Heino, M. (2020). Life histories determine divergent population trends for fishes under climate warming. *Nature Communications*, 11: 4088. S50895
- Wei, Z., Mo, J., Huang, R., Hu, Q., Long, C., Ding, D., Yang, F. & Long, L. (2020). Physiological performance of three calcifying green macroalgae *Halimeda* species in response to altered seawater temperatures. *Acta Oceanologica Sinica*, 39(2): 89-100. S50452
- Wernberg, T., Couraudon-Réale, M., Tuya, F. & Thomsen, M. (2020). Disturbance intensity, disturbance extent and ocean climate modulate kelp forest understory communities. *Marine Ecology Progress Series*, 651: 57-69. S50725
- Wright, P. J., Pinnegar, J. K. & Fox, C. (2020). Impacts of climate change on fish, relevant to the

養殖・魚病

- 遠藤雅人(2020). 陸上養殖の原理, 現状と課題. 海洋と生物, 42(2): 148-155. S50469
- 金田友紀・高畠信一(2020). キツネメバル仔魚の成長と生残に与える光条件および給餌開始日の影響. 北海道水産試験場研究報告, 97: 9-15. S50511
- 蒲原 聡・高須雄二・湯口真実・美馬紀子・天野禎也(2020). 2018 年度ノリ漁期において伊勢・三河湾で生産された乾海苔の黒み度への漁場の栄養塩類の影響. 愛知県水産試験場研究報告, 25: 1-8. S50581
- 喜田 潤・渡邊裕介・塩野谷 勝・小嶋純一(2020). ヒゲソリダイの種苗生産と仔稚魚の形態発育. 水産増殖, 68(1): 43-50. S50426
- 吉川貴志(2020). ヒゲソリダイ(かやかり)の種苗生産技術の開発. 豊かな海, No. 52: 5-9. S50829
- 金 禧珍・萩原篤志(2020). 餌料生物の光反応を活用した効率的な種苗生産. 養殖ビジネス, 57(2): 36-39. S50596
- 谷田圭亮(2020). 瀬戸内海の水温上昇が生物に与える影響—兵庫県におけるノリ養殖—. 瀬戸内海, 79: 19-21. S50438
- 長島裕二・大城直雅(2020). 気候変動とマリントキシシン. 水環境学会誌, 41(A): 365-369. S50747
- 林 俊裕・宮山 俊(2020). 東京湾三番瀬ノリ養殖漁場における秋季の水温変化の特徴. 千葉県水産総合研究センター研究報告, No. 13: 27-34. S50441
- 平野慶二(2020). 諫早湾干潟域のアサリ養殖場における貧酸素化とその被害防止対策. 長崎県水産試験場研究報告, No. 45: 19-73. S50514
- 平野正人(2019). 低水温期, 夜間でも活発に摂餌:クロダイによる養殖ノリ食害実態の把握. 水産界, No. 1616: 18-20. S50535
- 藤田大介(2019). 日本沿岸の温暖化と海藻養殖. 海藻資源, 44: 2-7. S50660
- 伏屋玲子・玉城泉也・林原 毅・加藤雅也・清水弘文(2020). 人工催熟による養成クルマエビの効率的な採卵条件. 日本水産学会誌, 86(5): 395-401. S50717
- 本多正樹・今村正裕・小林卓也・日恵井佳子(2020). 石炭灰・貝殻混和固化体の藻類増殖好適性の検証—非破壊的測定手法を用いた付着珪藻増殖特性の把握から—. 水環境学会誌, 43(3): 79-86. S50478
- 前田高志(2020). コンブ養殖漁業振興研究(受託研究). 道総研函館水産試験場事業報告書, 平成30年度: 115-124. S50597
- 前田高志・北川雅彦(2020). 新しいガゴメ養殖技術の確立を目指して. 北水試だより, No. 100: 20-24. S50512

- 宮川泰輝・松村貴晴・服部宏勇(2020). カイヤドリウミグモの寄生がアサリの潜砂行動及び肥満度に及ぼす影響. 愛知県水産試験場研究報告, 25: 27-29. S50582
- 村瀬 昇・棚田教生・多田篤司・阿部真比古・野田幹雄・吉田吾郎(2019). ワカメ養殖における温暖化適応技術と生長特性評価. 海藻資源, 44: 24-28. S50697
- 吉田 達(2020). 異常高水温時におけるホタテガイ養殖生産技術の開発 陸奥湾での取り組み. アクアネット, 23(7): 28-32. S50619
- 渡邊裕介(2019). ヒゲソリダイの種苗生産技術開発. ヒゲソリダイ講演会・試食会「ヒゲソリダイを知る」発表資料. S50308
- Belton, B., Little, D. C., Zhang, W., Edwards, P., Skladany, M. & Thilsted, S. H. (2020). Farming fish in the sea will not nourish the world. *Nature Communications*, 11: 5804. S50824
- Bernard, M. S., Jansen, H., van der Werf, A., van der Meer, I. & Tonk, L. (2020). Development of offshore seaweed farming: ecology & cultivation. Wageningen University & Research report, C054/20: 1-32. S50667
- Chapman, E. J., Byron, C. J., Lasley-Rasher, R., Lipsky, C., Sevens, J. R. & Peters, R. (2020). Effects of climate change on coastal ecosystem food webs: Implications for aquaculture. *Marine Environmental Research*, 162: 105103. S50775
- Collins, C., Bresnan, E., Brown, L., Falconer, L., Guilder, J., Jones, L., Kennerley, A., Malham, S., Murray, A. & Stanley, M. (2020). Impacts of climate change on aquaculture. *MCCIP Science Review 2020*: 482-520. S50451
- Foyle, K. L., Hess, S., Powell, M. D. & Herbert, N. A. (2020). What is gill health and what its role in marine finfish aquaculture in the face of a changing climate? *Frontiers in Marine Science*, 7: 400. S50812
- Heery, E. C., Lian, K. Y., Loke, L. H. L., Tan, H. T. W. & Todd, P. A. (2020). Evaluating seaweed farming as an eco-engineering strategy for 'blue' shoreline infrastructure. *Ecological Engineering*, 152: 105857. S50908
- Hwang, E. K. & Park, C. S. (2020). Seaweed cultivation and utilization of Korea. *Algae*, 35(2): 107-121. S50567
- Hwang, E. K., Choi, H. G. & Kim, J. K. (2020). Seaweed resources of Korea. *Botanica Marina*, 63(1): 395-405. S50669
- Kett, G. F., Culloty, S. C., Lynch, S. A. & Jansen, M. A. K. (2020). Solar UV radiation modulates animal health and pathogen prevalence in coastal habitats - knowledge gaps and implications for bivalve aquaculture. *Marine Ecology Progress Series*, 653: 217-231. S50885
- Ko, S. J., Kim, Y. K., Hong, S. W., Kang, M. S., Park, C. S., Hwang, E. K. & Lee, Y. D. (2020). Artificial seed production and cultivation of *Sargassum macrocarpum* (Fucales, Phaeophyta). *Algae*, 35(2): 123-131. S50566
- Le, M.-H., Dinh, K. V., Nguyen, M. V. & Rønnestad, I. (2020). Combined effects of a simulated

- marine heatwave and an algal toxin on a tropical marine aquaculture fish cobia (*Rachycentron canadum*). *Aquaculture Research*, 51(6): 2535-2544. S50887
- Mohamadnia, S., Tavakoli, O., Faramarzi, M. A. & Shamsollahi, Z. (2020). Production of fucoxanthin by the microalga *Tisochrysis lutea*: A review of recent developments. *Aquaculture*, 516: 734637. S50275
- Muhammad, G., Atsumi, T. & Komaru, A. (2020). The influence of water temperature, salinity and food availability on nacre deposition rates in shells and pearls of Japanese and hybrid pearl oyster, *Pinctada fucata* (Gould, 1850). *Aquaculture*, 528: 735512. S50673
- Ndobe, S., Yasir, I., Salanggon, A. M., Wahyudi, D., Ederyan, Muslihudin, Renol, Adel, Y. S. & Moore, A. M. (2020). Eucheumatoid seaweed farming under global change -Tomini Bay seaweed trial indicates *Eucheuma denticulatum (spinosum)* could contribute to climate adaptation. *AAFL Bioflux*, 13(5): 2452-2467. S50739
- Ohtake, M., Natori, N., Sugai, Y., Tsuchiya, K., Aketo, T., Nishihara, G. N. & Toda, T. (2020). Growth and nutrient uptake characteristics of *Sargassum macrocarpum* cultivated with phosphorus-replete wastewater. *Aquatic Botany*, 163: 103208. S50298
- Oyinlola, M. A., Reygondeau, G., Wabnitz, C. C. C. & Cheung, W. W. L. (2020). Projecting global mariculture diversity under climate change. *Global Change Biology*, 26(4): 2134-2148. S50400
- Palma, P., Takemura, A., Libunao, G. X., Superio, J., de Jesus-Ayson, E. G., Ayson, F., Nocillado, J., Dennis, L., Chan, J., Thai, T. Q., Ninh, N. H. & Elizur, A. (2019). Reproductive development of the threatened giant grouper *Epinephelus lanceolatus*. *Aquaculture*, 509: 1-7. S50634
- Saraiva, S., Freitas, V., Ozorio, R., Rato, A., Joaquim, S., Matias, D. & Neves, R. (2020). Mechanistic approach for oyster growth prediction under contrasting culturing conditions. *Aquaculture*, 522: 735105. S50527
- Tanaka, K., Ohno, M. & Largo, D. B. (2020). An update on the seaweed resources of Japan. *Botanica Marina*, 63(1): 105-117. S50300
- Visch, W., Kononets, M., Hall, P. O. J., Nylund, G. M. & Pavia, H. (2020). Environmental impact of kelp (*Saccharina latissima*) aquaculture. *Marine Pollution Bulletin*, 155: 110962. S50554
- Willer, D. F., Furse, S. & Aldridge, D. C. (2020). Microencapsulated algal feeds as a sustainable replacement diet for broodstock in commercial bivalve aquaculture. *Scientific Reports*, 10: 12577. S50642

分類・遺伝

- 赤松良久・乾 隆帝 (2018). 環境 DNA を用いた河川生物量推定法の開発. *水環境学会誌*, 41(A): 128-131. S50734
- 赤松良久・都築隆禎・横山良太・舟橋弥生・太田宗宏・畔上雅樹・内藤太輔・乾 隆帝 (2018). 河川水辺の国勢調査による魚類相調査と環境 DNA メタバーコーディング

- 解析の比較検討. 土木学会論文集 B1(水工学), 74(5): I_415-I_420. S50657
- 加藤亜記・足立賢太・井龍康文・馬場将輔(2020). 島原半島南部の「白洲」を構成する rhodolith (石灰藻球) の分類と生態—2018 年調査結果—. 日本藻類学会第 44 回大会講演要旨. S50366
- 上村了美・大谷壮介・岩見和樹・上月康則・田辺尚暉・山中亮一(2019). 大阪湾奥における魚類多様性検出のための環境 DNA 調査. 土木学会論文集 B2(海岸工学), 75(2): I_1171-I_1176. S50753
- 今藤夏子・松崎慎一郎(2018). 霞ヶ浦における定置網と環境 DNA を用いた魚類調査と多様性の比較. 水環境学会誌, 41(A): 137-140. S50735
- 清 和成(2018). DNA マイクロアレイを用いた水環境中の病原性細菌分布調査に関する研究. 水環境学会誌, 41(A): 141-144. S50736
- 馬場将輔・菊地則雄・加藤亜記(2020). 千葉県勝浦市沿岸における無節サンゴモ相. 日本藻類学会第 44 回大会発表要旨. S50365
- 馬場将輔・菊地則雄・加藤亜記(2020). 千葉県勝浦市沿岸の無節サンゴモ相. 海洋生物環境研究所研究報告, No. 25: 1-40. S50387
- 皆川朋子・秋山秀樹・狭間俊介・児玉紗友里(2018). 環境 DNA 分析による瀬淵スケールを対象としたアユの生息場・産卵場評価に関する基礎研究. 土木学会論文集 B1(水工学), 74(5): I_427-I_432. S50659
- 源 利文(2018). 種特異的な環境 DNA 検出によるマクロ生物の生態調査. 水環境学会誌, 41(A): 123-127. S50733
- 宮 正樹(2020). バケツ一杯の水で棲んでいる魚が丸ごとわかる技術: MiFish プライマーを用いた環境 DNA メタバーコーディング法の最新情報. 環境アセスメント学会誌, 18(2): 20-24. S50682
- 山口皓平・赤松良久・乾 隆帝・後藤益滋・河野誉仁・栗田喜久(2018). 河川における環境 DNA 含有物質の動態に関する基礎的研究. 土木学会論文集 B1 (水工学), 74(5): I_409-I_414. S50658
- Ahn, H., Kume, M., Terashima, Y., Ye, F., Kameyama, S., Miya, M., Yamashita, Y. & Kasai, A. (2020). Evaluation of fish biodiversity in estuaries using environmental DNA metabarcoding. PLoS ONE, 15(10): e0231127. S50803
- Akita, S., Hashimoto, K., Hanyuda, T. & Kawai, H. (2020). Molecular phylogeny and biogeography of *Ecklonia* spp. (Laminariales, Phaeophyceae) in Japan revealed taxonomic revision of *E. kurome* and *E. stolonifera*. Phycologia, 59(4): 330-339. S50609
- Athanasiadis, A. (2020). A study of the type material of *Lithophyllum hibernicum* (Lithophyllaceae, Corallinales, Rhodophyta) with comments on *L. bathyporum* and *L. incrustans*. Marine Biology Research, 16(1): 68-76. S50317
- Davidov, K., Iankelevich-Kounio, E., Yakovenko, I., Kouchеров, Y., Rubin-Blum, M. & Oren, M.

- (2020). Identification of plastic-associated species in the Mediterranean Sea using DNA metabarcoding with Nanopore MinION. *Scientific Reports*, 10: 17533. S50749
- DiBattista, J. D., Reimer, J. D., Stat, M., Masucci, G. D., Biondi, P., De Brauwer, M., Wilkinson, S. P., Chariton, A. A. & Bunce, M. (2020). Environmental DNA can act as a biodiversity barometer of anthropogenic pressures in coastal ecosystems. *Scientific Reports*, 10: 8365. S50510
- Djurhuus, A., Closek, C. J., Kelly, R. P., Pitz, K. J., Michisaki, R. P., Starks, H. A., Walz, K. R., Andruszkiewicz, E. A., Olesin, E., Hubbard, K., Montes, E., Otis, D., Muller-Karger, F. E., Chavez, F. P., Boehm, A. B. & Breibart, M. (2020). Environmental DNA reveals seasonal shifts and potential interactions in a marine community. *Nature Communications*, 11: 254. S50255
- Ficetola, G. F., Miaud, C., Pompanon, F. & Taberlet, P. (2008). Species detection using environmental DNA from water samples. *Biology Letters*, 4(4): 423-425. S50743
- Gomes-dos-Santos, A., Lopes-Lima, M., Castro, L. F. C. & Froufe, E. (2020). Molluscan genomics: the road so far and the way forward. *Hydrobiologia*, 847(7): 1705–1726. S50472
- Harvey, A. S., Woelkerling, W. J. & de Reviers, B. (2020). A taxonomic analysis of *Jania* (Corallinaceae, Rhodophyta) in south-eastern Australia. *Australian Systematic Botany*, 33(3): 221-277. S50364
- Hu, Q., Yang, F., Wei, Z., Mo, J., Long, C., Tian, X. & Long, L. (2020). Detail description of *Lithophyllum okamurae* (Lithophylloideae, Corallinales), a widely distributed crustose coralline alga in marine ecosystems. *Acta Oceanologica Sinica*, 39: 96-106. S50526
- Kasai, A., Takada, S., Yamazaki, A., Masuda, R. & Yamanaka, H. (2020). The effect of temperature on environmental DNA degradation of Japanese eel. *Fisheries Science*, 86(3): 465–471. S50738
- Lee, H. W., Kang, J. C. & Kim, M. S. (2019). Taxonomy of *Ulva* causing blooms from Jeju Island, Korea with new species, *U. pseudo-ohnoi* sp. nov. (Ulvales, Chlorophyta). *Algae*, 34(4): 253-266. S50248
- Manel, S., Guerin, P., Mouillot, D., Blanchet, S., Velez, L., Albouy, C. & Pellissier, L. (2020). Global determinants of freshwater and marine fish genetic diversity. *Nature Communications*, 11: 692. S50324
- Miya, M. & Nishida, M. (2015). The mitogenomic contributions to molecular phylogenetics and evolution of fishes: a 15-year retrospect. *Ichthyological Research*, 62(1): 29-71. S50705
- Miya, M., Gotoh, R. O. & Sado, T. (2020). MiFish metabarcoding: a high-throughput approach for simultaneous detection of multiple fish species from environmental DNA and other samples. *Fisheries Science*, 86(6): 939-970. S50821
- Murakami, H., Yoon, S., Kasai, A., Minamoto, T., Yamamoto, S., Sakata, M. K., Horiuchi, T., Sawada, H., Kondoh, M., Yamashita, Y. & Masuda, R. (2019). Dispersion and degradation of environmental DNA from caged fish in a marine environment. *Fisheries Science*, 85(2): 327–337. S50737

- Twist, B. A., Cornwall, C. E., McCoy, S. J., Gabrielson, P. W., Martone, P. T. & Nelson, W. A. (2020). The need to employ reliable and reproducible species identifications in coralline algal research. *Marine Ecology Progress Series*, 654: 225-231. S50836
- Venter, J., Remington, K., Heidelberg, J. F., Halpern, A. L., Rusch, D., Eisen, J. A., Wu, D., Paulsen, I., Nelson, K. E., Nelson, W., Fouts, D. E., Levy, S., Knap, A. H., Lomas, M. W., Nealson, K., White, O., Peterson, J., Hoffman, J., Parsons, R., Baden-Tillson, H., Pfannkoch, C., Rogers, Y.-H. & Smith, H. O. (2004). Environmental genome shotgun sequencing of the Sargasso Sea. *Science*, 304(5667): 66-74. S50742

資源

- 我妻行雄(2020). 海洋と温暖化における北日本のウニ生産に向けた新たな研究. *海洋と生物*, 42(4): 311-315. S50677
- 石井幸造(2020). 持続可能な漁業, 責任ある養殖業の普及に向けた MSC, ASC 認証の概要と動向について. *環境情報科学*, 49(1): 59-65. S50449
- 岡本 優 (2020). 海藻を利用した資源循環. *資源学会論文集*, 41(5): 226-232. S50872
- 勝川俊雄(2020). 海洋生態系の状況と日本の水産資源の管理について. *環境情報科学*, 49(1): 6-10. S50444
- 金元保之・柴田泰宙(2020). 島根県沿岸におけるケンサキイカの CPUE に影響を与える要因の検討と将来予測. *日本水産学会誌*, 86(5): 371-385. S50715
- 河野光久・天野千絵 (2020). 山口県日本海域におけるアカアマダイの成長と成熟. *山口県水産研究センター研究報告*, 17: 1-8. S50588
- 木曾英滋(2020). 鉄鋼スラグを用いた藻場造成技術の開発. *JATAFF ジャーナル 農林水産技術*, 8(2): 23-27. S50571
- 北川大二・服部 努・成松庸二(2002). 東北海域における底魚資源のモニタリング. *月刊海洋*, 34: 793-798. S50269
- 河野時廣(2020). 2017 年秋季の石狩湾新港定置網における水温変動とサケ *Oncorhynchus keta* の漁獲の関係. *水産海洋研究*, 84(3): 161-177. S50690
- 五嶋聖治(2020). マナマコ漁業・増殖に関わる生物学的知見. *海洋と生物*, 42(4): 316-321. S50678
- 児玉純一・永島 宏・和泉祐司(1990). 金華山海域に生息するマダラについて. 200 カイリ水域内漁業資源総合調査 第 11 回東北海区底魚研究チーム会議 会議報告: 43-46. S50310
- 小塚 晃・北川慎介・南条暢聡・辻本 良 (2020). 富山湾におけるブリ, スルメイカ, ホタルイカの漁況と日本海の海洋環境との関係. *沿岸海洋研究*, 58(1): 81-86. S50685
- 佐藤達也(2020). 沿岸漁業における資源管理に向けた自然環境モニタリングの課題と

- 将来に向けて. 環境情報科学, 49(1): 53-58. S50448
- 高橋正征(2020). SDGs (エス・ディー・ジーズ) と漁業. 海洋と生物, 42(2): 115-120. S50464
- 高谷義幸(2020). リアルタイム PCR を用いたコンブ遊走子定量法の改良(技術報告). 北海道水産試験場研究報告, 98: 25-29. S50746
- 反田 寛(2020). 瀬戸内海・播磨灘における水産業と窒素. 海洋と生物, 42(5): 446-455. S50772
- 反田 實(2020). イカナゴの減少と貧栄養化-DIN の低下が産卵数の減少をもたらす機序-. アクアネット, 23(10): 43-49. S50791
- 中田 薫(2020). 「農林水産省気候変動適応計画」における水産資源・漁業の取り組み. 環境情報科学, 49(1): 33-39. S50447
- 中前 明(2020). わが国の遠洋漁業の状況と課題. 海洋と生物, 42(2): 141-147. S50468
- 成松庸二・北川大二・服部 努(2011). 平成 13 年マダラ太平洋北系群の資源影響評価. 我が国周辺水域の水産資源評価(魚種別系群別資源評価), 313-324. S50318
- 野副 滉・大形拓路・伊藤輝昭(2020). 標識放流から推定した周防灘におけるナルトビエイの移動生態. 福岡県水産技術海洋センター研究報告, No. 30: 13-20. S50513
- 浜田篤信・菊地章雄(2020). ニホンウナギ減少原因に関する新しい仮説. 水産増殖, 68(2): 91-100. S50592
- 日比野 学・下村友季(2020). 水産系モニタリングデータの収集と利活用. 海洋と生物, 42(1): 49-55. S50334
- 福田慎作・横山勝幸・早川 豊・中西広義(1985). 青森県陸奥湾口部におけるマダラ成魚の標識放流について. 栽培漁業技術開発研究, 14(2): 71-77. S50250
- 升間主計(2020). 水産資源の養殖の現状と将来展望. 環境情報科学, 49(1): 66-71. S50450
- 松田裕之(2020). 海洋生態系の保全と持続可能な水産資源管理の課題と展望. 環境情報科学, 49(1): 1-5. S50443
- 三木 理・奥村真子・中島隆甫・参納千夏男・田中義人・石川竜子(2020). フライアッシュ高含有ポーラスコンクリートパネルを用いた能登半島での藻場造成の検討—輪島市名舟漁港におけるフィールド実験—. 水環境学会誌, 43(2): 25-34. S50367
- 宮向智興・今尾和正・田崎智晶・赤司有三・鈴木輝明・田中義人(2020). 浚渫土と鉄鋼スラグを用いた人工石への生物増集効果に関する天然石との比較. 水産工学, 57(1): 11-25. S50664
- 谷津明彦(2020). わが国における小型浮魚類の資源変動と資源管理の考え方. 海洋と生物, 42(2): 121-126. S50465
- 山下秀幸(2020). わが国の沖合漁業の現状と課題. 海洋と生物, 42(2): 134-140. S50467

- 山本昌幸 (2020). 瀬戸内海の水温上昇による生物への影響—暖冬がもたらすマダイ瀬戸内海東部系群の分布変化と漁獲量の増加—. 瀬戸内海, 79: 16-18. S50437
- 山本昌幸・棚田教生・元谷 剛 (2020). 瀬戸内海播磨灘におけるアイゴの漁獲量の年・季節変動. 水産増殖, 68(3): 287-292. S50727
- 吉村 拓 (2001). イセエビ *Panulirus japonicus* の水産生物学的研究. 月刊海洋, 26: 230-236. S50585
- 渡邊俊輝・河野光久・廣畑二郎・天野千絵・大田寿行・安部 謙・國森拓也・謝 旭暉・斎藤克弥 (2020). 山口県日本海沿岸域における漁場形成予測技術の開発および漁海況情報配信システムの構築. 海洋と生物, 42(3): 294-301. S50575
- 和田時雄 (2020). わが国の沿岸漁業の課題と展望. 海洋と生物, 42(2): 127-133. S50466
- Andrews, A. H., Pacicco, A., Allman, R., Falterman, B. J., Lang, E. T. & Gole, W. (2020). Age validation of yellowfin (*Thunnus albacares*) and bigeye (*Thunnus obesus*) tuna of the northwestern Atlantic Ocean. Canadian Journal of Fisheries and Aquatic Sciences, 77(4): 637-643. S50528
- Boyd, R., Thorpe, R., Hyder, K., Roy, S., Walker, N. & Sibly, R. (2020). Potential consequences of climate and management scenarios for the northeast Atlantic mackerel fishery. Frontiers in Marine Science, 7: 639. S50810
- Bryndum-Buchholz, A., Boyce, D. G., Tittensor, D. P., Christensen, V., Bianchi, D. & Lotze, H. K. (2020). Climate-change impacts and fisheries management challenges in the North Atlantic Ocean. Marine Ecology Progress Series, 648: 1-17. S50674
- Furuichi, S., Yasuda, T., Kurota, H., Yoda, M., Suzuki, K., Takahashi, M. & Fukuwaka, M. (2020). Disentangling the effects of climate and density-dependent factors on spatiotemporal dynamics of Japanese sardine spawning. Marine Ecology Progress Series, 633: 157-168. S50529
- Holsman, K. K., Haynie, A. C., Hollowed, A. B., Reum, J. C. P., Aydin, K., Jermann, A. J., Cheng, W., Faig, A., Ianelli, J. N., Kearney, K. A. & Punt, A. E. (2020). Ecosystem-based fisheries management forestalls climate-driven collapse. Nature Communications, 11: 4579. S50692
- Ladds, M. A., Pinkerton, M. H., Jones, E., Durante, L. M. & Dunn, M. R. (2020). Relationship between morphometrics and trophic levels in deep-sea fishes. Marine Ecology Progress Series, 637: 225-235. S50476
- Ritchie, D. E. (1970). Evaluation of gonadal biopsy technique in striped bass based on tagged fish returns. Chesapeake Science, 11: 210-215. S50628
- Smolinski, S., Schade, F. M. & Berg, F. (2020). Assessing the performance of statistical classifiers to discriminate fish stocks using Fourier analysis of otolith shape. Canadian Journal of Fisheries and Aquatic Sciences, 77(4): 674-683. S50473
- Toba, M., Kobayashi, Y. & Shibata, T. (2020). Characteristic changes in the population dynamics of

- asari (Manila) clam *Ruditapes philippinarum* in a period of stock decrease on the Banzu intertidal flat, Tokyo Bay. *Journal of Sea Research*, 157: 101845. S50291
- van Rijn, I., Kiflawi, M. & Belmaker, J. (2020). Alien species stabilize local fisheries catch in a highly invaded ecosystem. *Canadian Journal of Fisheries and Aquatic Sciences*, 77(4): 752-761. S50474
- von Leesen, G., Ninnemann, U. S. & Campana, S. E. (2020). Stable oxygen isotope reconstruction of temperature exposure of the Icelandic cod (*Gadus morhua*) stock over the last 100 years. *ICES Journal of Marine Science*, 77(3): 942–952. S50539
- Wright, S. R., Lynam, C. P., Righton, D. A., Metcalfe, J., Hunter, E., Riley, A., Garcia, L., Posen, P. & Hyder, K. (2020). Structure in a sea of sand: fish abundance in relation to man-made structures in the North Sea. *ICES Journal of Marine Science*, 77(3): 1206–1218. S50546
- Yamamoto, M., Omi, H., Yasue, N. & Kasai, A. (2020). Correlation of changes in seasonal distribution and catch of red sea bream *Pagrus major* with winter temperature in the eastern Seto Inland Sea, Japan (1972–2010). *Fisheries Oceanography*, 29(1): 1-9. S50563
- Zhang, F., Rideout, R. M. & Cadigan, N. G. (2020). Spatiotemporal variations in juvenile mortality and cohort strength of Atlantic cod (*Gadus morhua*) off Newfoundland and Labrador. *Canadian Journal of Fisheries and Aquatic Sciences*, 77(3): 625-635. S50419
- Zhuang, M., Liu, M., Ding, X., He, J., Zhao, S., Wu, L., Gao, S., Zhao, C., Liu, D., Zhang, J. & He, P. (2020). *Sargassum* blooms in the East China Sea and Yellow Sea: Formation and management. *Marine Pollution Bulletin*, 111845. S50880

その他

- 石原広恵・アビゲイル ブランドン (山脇亜弥) (2020). エコラベル・認証制度で「海の豊かさ」は実現できるのか? *海洋と生物*, 42(1): 56-64. S50335
- 香川謙二 (2020). 海洋生物環境研究所における種苗生産・飼育・放流. *豊かな海*, No. 50: 2. S50484
- Rousseeuw, P. J. & Driessen, K. (2006). Computing LTS regression for large data sets. *Data Mining and Knowledge Discovery*, 12(1): 29-45. S50744
- Satman, M. H. (2011). A genetic algorithm based modification on the LTS algorithm for large data sets. *Communications in Statistics - Simulation and Computation*, 41(5): 644-652. S50757

単行書

- 浜岡原子力発電所周辺環境放射能調査結果 調査期間 平成 31 年 4 月～令和元年 6 月.
静岡県環境放射能測定技術会, 令和元年 10 月. 13012
- 令和元年度島根原子力発電所周辺環境放射線等調査結果 第 1・四半期. 島根県. 13013
- 玄海原子力発電所の運転状況及び周辺環境調査結果(季報)(令和元年 7 月～9 月). 佐賀
県, 令和 2 年 1 月. 13014
- 川内原子力発電所周辺環境放射線調査結果報告書(平成 30 年度 年報). 鹿児島県, 令和
2 年 1 月. 13015
- 川内原子力発電所周辺環境放射線調査結果報告書(令和元年 7 月～9 月). 鹿児島県, 令
和 2 年 1 月. 13016
- 令和元年度伊方原子力発電所周辺環境放射線等調査結果 第 2・四半期. 愛媛県, 令和元
年 12 月. 13017
- 原子力機構の“いまーこれから”. 日刊工業新聞社, 令和元年 11 月. 13018
- 平成 29 年度海洋水産資源開発事業報告書(スジアラ養殖の企業化に向けた技術開発).
国立研究開発法人 水産研究・教育機構 開発調査センター, 令和元年 8 月. 13019
- 平成 30 年度女川原子力発電所温排水調査結果. 宮城県, 令和 2 年 2 月. 13020
- 令和元年度志賀原子力発電所周辺環境放射線監視結果報告書 第 2 報 令和元年 7 月～
9 月分. 石川県, 令和 2 年 1 月. 13021
- 令和元年度志賀原子力発電所温排水影響調査結果報告書 第 1 報(春季). 石川県, 令和 2
年 1 月. 13022
- 令和元年度島根原子力発電所周辺環境放射線等調査結果 第 2・四半期. 島根県. 13023
- 平成 30 年度農林水産省関係放射能調査研究年報 A 農業関係 B 畜産関係 C 水産関係.
農林水産省農林水産技術会議事務局, 令和元年 11 月. 13024
- 平成 30 年度農林水産省関係放射能調査研究年報 C 水産関係. 農林水産省農林水産技術
会議事務局, 令和元年 11 月. 13025
- 令和 2 年度版電力新設備要覧. 日刊電気通信社, 令和 2 年 2 月. 13026
- 島根原子力発電所温排水影響調査研究報告書 No.39. 島根県水産技術センター(内水面
浅海部浅海科), 令和元年 12 月. 13027
- 漁業権とはなにか. 日本評論社, 平成 30 年 1 月. 13028
- 実例でわかる漁業法と漁業権の課題. 成山堂書店, 平成 29 年 7 月. 13029
- 3 時間でわかる漁業権. 筑波書房, 平成 26 年 11 月. 13030
- 令和元年度女川原子力発電所環境放射能及び温排水調査結果 第 2 四半期. 宮城県, 令
和 2 年 1 月. 13031
- 令和元年度泊発電所周辺環境放射線監視結果報告書:環境放射線 第 2 四半期. 北海道,
令和元年 12 月. 13032
- 令和元年度泊発電所周辺温排水影響調査結果報告書:温排水 第 2 四半期. 北海道, 令和

元年 12 月. 13033

令和元年度柏崎刈羽原子力発電所周辺環境放射線監視調査結果速報 第 3 四半期(10 月～12 月). 新潟県・東京電力ホールディングス株式会社, 令和 2 年 2 月. 13034

新潟県の原子力発電. 新潟県, 平成 28 年 3 月. 13035

新潟県の原子力発電. 新潟県, 平成 29 年 3 月. 13036

玄海原子力発電所の運転状況及び周辺環境調査結果(季報)(令和元年 10 月～12 月). 佐賀県, 令和 2 年 3 月. 13037

佐賀県の原子力発電 2020. 佐賀県, 令和 2 年 3 月. 13038

Research and Development on Marine and Global Environmental Change Annual Report FY2018. JAMSTEC(海洋研究開発機構). 13039

令和元年度原子力施設環境放射線調査報告書 第 2 四半期報. 青森県, 令和 2 年 3 月. 13040

令和 2 年度島根原子力発電所周辺環境放射線等測定計画. 島根県. 13041

水産用医薬品について 第 33 報. 農林水産省. 13042

東海再処理施設周辺の環境放射線モニタリング結果 2018 年度. 日本原子力研究開発機構, 令和 2 年. 13043

農・畜・林・水産業試験研究の歩み. 兵庫県立農林水産技術総合センター, 令和 2 年 3 月. 13044

平成 30 年度柏崎刈羽原子力発電所温排水等漁業調査結果報告. 新潟県・東京電力ホールディングス株式会社, 令和元年 8 月. 13045

浜岡原子力発電所周辺環境放射能調査結果 調査期間 令和元年 7 月～令和元年 9 月. 静岡県環境放射能測定技術会, 令和元年 11 月. 13046

応用生態工学会第 23 回研究発表会講演集. 応用生態工学会, 令和元年 9 月. 13046

平成 30 年度日本水産学会春季大会講演要旨集(東京海洋大学). 日本水産学会(東京海洋大学), 平成 30 年 3 月. 13047

平成 31 年度日本水産学会春季大会講演要旨集(東京海洋大学). 日本水産学会(東京海洋大学), 平成 31 年 3 月. 13048

Hywind Pilot Park Environmental Statement. 平成 27 年. 13049

Aquaculture Perspective of Multi-Use Sites in the Open Ocean. Spriger, 2017. 13050

沿岸域における環境価値の定量化ハンドブック. 株式会社 生物研究社, 令和 2 年 3 月. 13063

ISO 19011:2018(JIS Q 19011:2019)マネジメントシステム監査 解説と活用方法. (一財)日本規格協会. 令和元年 7 月. 13051

ISO/IEC 17065:2012〈JIS Q 17065:2012〉製品認証機関に対する要求事項 : 解説と適用ガイド. 日本規格協会, 平成 25 年 2 月. 13052

ISO 9001:2015 〈JIS Q 9001:2015〉 要求事項の解説. 日本規格協会, 平成 27 年 11 月.
13053

環境放射線監視季報 第 188 報(令和元年度第 1 四半期) 第 189 報(令和元年度第 2 四
半期). 茨城県東海地区環境放射線監視委員会. 13054

しまねの原子力 2020. 島根県. 13055

JIS 適合性評価—製品, プロセス及びサービスの認証を行う機関に対する要求事項 JIS
Q 17065:2012. (一財)日本規格協会, 平成 24 年 12 月. 13056

JIS 品質マネジメントシステム—要求事項 JIS Q 9001:2015. (一財)日本規格協会, 平
成 27 年 11 月. 13057

JIS マネジメントシステム監査のための指針 JIS Q 19011:2019. (一財)日本規格協会,
令和元年 5 月. 13058

川内原子力発電所周辺環境放射線調査結果報告書(令和元年 10 月～12 月). 鹿児島県,
令和 2 年 3 月. 13059

2020 宮城県の原子力行政. 宮城県, 令和 2 年 3 月. 13060

令和元年度泊発電所周辺環境放射線監視結果報告書:環境放射線 第 3 四半期. 北海道,
令和 2 年 3 月. 13061

令和元年度泊発電所周辺温排水影響調査結果報告書:温排水第 3 四半期. 北海道, 令和 2
年 3 月. 13062

令和元年度原子力行政のあらまし ～福島県原子力発電所の廃炉に関する取組～. 福島
県, 令和 2 年 3 月. 13064

令和元年度島根原子力発電所周辺環境放射線等調査結果 第 3・四半期. 島根県. 13065

令和 2 年度志賀原子力発電所周辺環境放射線等調査結果報告書:温排水影響調査年度計画. 石川県. 13067

令和 2 年度志賀原子力発電所周辺環境放射線監視年度計画. 石川県. 13068

令和 2 年度志賀原子力発電所周辺環境放射線監視年度計画. 北陸電力(株). 13069

鹿児島県の原子力行政. 鹿児島県危機管理防災局原子力安全対策課, 令和 2 年 3 月.
13070

令和元年度伊方原子力発電所周辺環境放射線等調査結果 第 3・四半期. 愛媛県, 令和 2
年 3 月. 13071

令和 2 年度伊方原子力発電所周辺環境放射線等調査計画. 愛媛県. 13072

浜岡原子力発電所周辺環境放射能調査結果 調査期間 令和元年 10 月～令和元年 12 月.
静岡県環境放射能測定技術会, 令和 2 年 3 月. 13073

藻類の生活史集成 第 1 巻 緑色藻類. 内田老鶴圃, 平成 6 年 2 月. 13080

藻類の生活史集成 第 2 巻 褐藻・紅藻類. 内田老鶴圃, 平成 5 年 9 月. 13077

藻類の生活史集成 第 3 巻 単細胞性・鞭毛藻類. 内田老鶴圃, 平成 5 年 11 月. 13078

アイソトープ手帳 12 版 ポケット版. 日本アイソトープ協会, 令和 2 年 3 月

令和 2 年度川内原子力発電所周辺環境放射線調査計画. 鹿児島県. 13074

第 40 回公益財団法人日本水環境学会通常総会. 日本水環境学会. 13075

海の生きもの観察ノート⑮千葉県でみられるカクレエビたち. 千葉県立中央博物館分館海の博物館, 令和 2 年 3 月. 13076

令和元年度東通原子力発電所温排水影響調査結果報告書 第 3 四半期報. 青森県, 令和 2 年. 13079

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令和 2 年度柏崎刈羽原子力発電所周辺環境放射線監視調査年度計画書. 新潟県, 令和 2 年 3 月. 13082

水産エコラベル ガイドブック. 成山堂書店, 令和 2 年 7 月. 13095

産業を語る愛媛 13 のオーラルヒストリー. アトラス出版, 平成 30 年 6 月. 13096

2019 年度ホシザキグリーン財団 環境修復プロジェクト報告書. 公益財団法人 ホシザキグリーン財団 環境修復プロジェクト, 令和 2 年 3 月. 13083

海洋白書 2020 White Paper on the Oceans and Ocean Policy in Japan. (公財) 笹川平和財団海洋政策研究所, 令和 2 年 3 月. 13084

漁港の国際スタンダード 講演録. (一社) 水産土木建設技術センター, 令和元年 6 月. 13085

ふるさと尺の内公園野草 観察ガイドブック. (公財) ホシザキグリーン財団, 令和元年 5 月. 13086

原子力発電に係る産業動向調査 2019 報告書(2018 年度対象調査). (一社) 日本原子力産業協会, 令和元年 11 月. 13087

早稲田理工 by AERA 2020. 朝日新聞出版, 令和 2 年 3 月. 13088

令和元年度 EEZ 内資源・漁獲管理体制強化事業 資源管理等取組事例調査報告書. 全国漁業協同組合連合会, 令和 2 年 3 月. 13089

天皇陛下御即位記念第 39 回全国豊かな海づくり大会 実績報告書～あきた大会～海づくり つながる未来 豊かな地域. 第 39 回豊かな海づくり大会秋田県実行委員会, 令和 2 年 3 月. 13090

平成 30 年度海洋水産資源開発事業報告書: 遠洋かつお釣 太平洋中・西部海域. 国立研究開発法人 水産研究・教育機構 開発調査センター, 令和 2 年 3 月. 13091

平成 30 年度海洋水産資源開発事業報告書: いか釣 日本周辺海域. 国立研究開発法人 水産研究・教育機構 開発調査センター, 令和元年 12 月. 13092

平成 30 年度海洋水産資源開発事業 実行可能性調査報告書 (ブリ優良人口種苗周年供給システムの構築). 国立研究開発法人 水産研究・教育機構 開発調査センター, 令和元年 11 月. 13093

水産茨城の歩み 平成 21 年～30 年(2009～2018 年). 水産茨城の歩み編集委員会. 13094

水産動物図説 ミジンコから魚介類まで. 成山堂書店, 平成 4 年 7 月. 13097

放射能調査報告書 令和元年調査結果. 海上保安庁海洋情報部, 令和 2 年 5 月. 13097
令和元年度版化学物質と環境. 環境省環境保健部環境安全課, 令和 2 年 3 月. 13098
令和元年度泊発電所周辺環境放射線監視結果報告書:環境放射線 第 4 四半期. 北海道,
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令和元年度泊発電所周辺温排水影響調査結果報告書:温排水 第 4 四半期. 北海道, 令和
2 年 6 月. 13100
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川内原子力発電所周辺環境放射線調査結果報告書(令和 2 年 1 月～3 月). 鹿児島県, 令
和 2 年 7 月. 13102
令和元年度原子力施設環境放射線調査報告書 第 3 四半期報. 青森県, 令和 2 年 7 月.
13103
第 93 回日本生化学会大会 プログラム集. 公益社団法人 日本生化学会, 令和 2 年 8 月.
13104
貝殻利用技術 学術研究報告・論文集(2019 年度版). 海洋建設(株)水産環境研究所, 令
和 2 年 3 月. 13105
令和元年度玄海原子力発電所の運転状況及び周辺環境調査結果(年報). 佐賀県, 令和 2
年 9 月. 13106
玄海原子力発電所の運転状況及び周辺環境調査結果(季報)(令和 2 年 1 月～3 月). 佐賀
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年 8 月. 13108
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浜岡原子力発電所周辺環境放射能調査結果 調査期間 平成 31 年 4 月～令和 2 年 3 月.
静岡県環境放射能測定技術会, 令和 2 年 6 月. 13111
令和元年度原子力施設環境放射線調査報告書 第 4 四半期報. 青森県, 令和 2 年 9 月.
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令和元年度原子力施設環境放射線調査報告書. 青森県, 令和 2 年 9 月. 13113
電力開発計画新鑑 令和 2 年度版. 日刊電気通信社, 令和 2 年 9 月. 13114
令和元年度志賀原子力発電所周辺環境放射線監視結果報告書 第 3 報 令和元年 10 月
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3 月分. 石川県, 令和 2 年 7 月. 13116
令和元年度志賀原子力発電所温排水影響調査結果報告書 第 2 報(夏季). 石川県, 令和 2

年 7 月. 13117
令和元年度志賀原子力発電所温排水影響調査結果報告書 第 3 報(秋季). 石川県, 令和 2 年 7 月. 13118
J-POWER グループ 総合報告書 2020 J-POWER Group Integrated Report. 電源開発株式会社. 13119
令和元年度伊方原子力発電所周辺環境放射線等調査結果 第 4・四半期. 愛媛県, 令和 2 年 7 月. 13120
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情報セキュリティの基礎知識:イラスト図解満載. 技術評論社, 平成 29 年 3 月. 13145

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