

AIMS Annual Report 2021-2022

2021 Publications

1. Abdalla S., Abdeh Kolahchi A., Ablain M., Adusumilli S., Aich Bhowmick S., Alou-Font E., Amarouche L., Andersen O.B., Antich H., Aouf L., Arbic B., Armitage T., Arnault S., Artana C., Aulicino G., Ayoub N., Badulin S., Baker S., Banks C., Bao L., Barbetta S., Barceló-Llull B., Barlier F., Basu S., Bauer-Gottwein P., Becker M., Beckley B., Bellefond N., Belonenko T., Benkiran M., Benkouider T., Bennartz R., Benveniste J., Bercher N., Berge-Nguyen M., Bettencourt J., Blarel F., Blazquez A., Blumstein D., Bonnefond P., Borde F., Bouffard J., Boy F., Boy J.-P., Brachet C., Brasseur P., Braun A., Brocca L., Brockley D., Brodeau L., Brown S., Bruinsma S., Bulczak A., Buzzard S., Cahill M., Calmant S., Calzas M., Camici S., Cancet M., Capdeville H., Carabajal C.C., Carrere L., Cazenave A., Chassignet E.P., Chauhan P., Cherchali S., Chereskin T., Cheymol C., Ciani D., Cipollini P., Cirillo F., Cosme E., Coss S., Cotroneo Y., Cotton D., Couhert A., Coutin-Faye S., Crétaux J.-F., Cyr F., d'Ovidio F., Darrozes J., David C., Dayoub N., De Staerke D., Deng X., Desai S., Desjonqueres J.-D., Dettmering D., Di Bella A., Díaz-Barroso L., Dibarboure G., Dieng H.B., Dinardo S., Dobslaw H., Dodet G., Doglioli A., Domeneghetti A., Donahue D., Dong S., Donlon C., Dorandeu J., Drezen C., Drinkwater M., Du Penhoat Y., Dushaw B., Egido A., Erofeeva S., Escudier P., Esselborn S., Exertier P., Fablet R., Falco C., Farrell S.L., Faugere Y., Femenias P., Fenoglio L., Fernandes J., Fernández J.G., Ferrage P., Ferrari R., Fichen L., Filippucci P., Flampouris S., Fleury S., Fornari M., Forsberg R., Frappart F., Frery M.-L., Garcia P., Garcia-Mondejar A., Gaudelli J., Gaultier L., Getirana A., Gibert F., Gil A., Gilbert L., Gille S., Giulicchi L., Gómez-Enri J., Gómez-Navarro L., Gommenginger C., Gourdeau L., Griffin D., Groh A., Guerin A., Guerrero R., Guinle T., Gupta P., Gutknecht B.D., Hamon M., Han G., Hauser D., Helm V., Hendricks S., Hernandez F., Hogg A., Horwath M., Idžanović M., Janssen P., Jeansou E., Jia Y., Jia Y., Jiang L., Johannessen J.A., Kamachi M., Karimova S., Kelly K., Kim S.Y., King R., Kittel C.M.M., Klein P., Klos A., Knudsen P., Koenig R., Kostianoy A., Kouraev A., Kumar R., Labroue S., Lago L.S., Lambin J., Lasson L., Laurain O., Laxenaire R., Lázaro C., Le Gac S., Le Sommer J., Le Traon P.-Y., Lebedev S., Léger F., Legresy B., Lemoine F., Lenain L., Leuliette E., Levy M., Lillibridge J., Liu J., Llovel W., Lyard F., Macintosh C., Makhoul Varona E., Manfredi C., Marin F., Mason E., Massari C., Mavrocordatos C., Maximenko N., McMillan M., Medina T., Melet A., Meloni M., Mertikas S., Metref S., Meyssignac B., Minster J.-F., Moreau T., Moreira D., Morel Y., Morrow R., Moyard J., Mulet S., Naeije M., Nerem R.S., Ngodock H., Nielsen K., Nilsen J.E.Ø., Niño F., Nogueira Loddo C., Noûs C., Obligis E., Otosaka I., Otten M., Oztunali Ozbahceci B., P. Raj R., Paiva R., Paniagua G., Paolo F., Paris A., Pascual A., Passaro M., Paul S., Pavelsky T., Pearson C., Penduff T., Peng F., Perosanz F., Picot N., Piras F., Poggiali V., Poirier É., Ponce de León S., Prants S., Prigent C., Provost C., Pujol M.-I., Qiu B., Quilfen Y., Rami A., Raney R.K., Raynal M., Remy E., Rémy F., Restano M., Richardson A., Richardson D., Ricker R., Ricko M., Rinne E., Rose S.K., Rosmorduc V., Rudenko S., Ruiz S., Ryan B.J., Salaün C., Sanchez-Roman A., Sandberg Sørensen L., Sandwell D., Saraceno M., Scagliola M., Schaeffer P., Scharffenberg M.G., Scharroo R., Schiller A., Schneider R., Schwatke C., Scozzari A., Ser-giacomi E., Seyler F., Shah R., Sharma R., Shaw A., Shepherd A., Shriver J., Shum C.K., Simons W., Simonsen S.B., Slater T., Smith W., Soares S., Sokolovskiy M., Soudarin L., Spatar C., Speich S., Srinivasan M., Srokosz M., Stanev E., Staneva J., Steunou N., Stroeve J., Su B., Sulistoadi Y.B., Swain D., Sylvestre-baron A., Taburet N., Tailleux R., Takayama K., Tapley B., Tarpanelli A., Tavernier G., Testut L., Thakur P.K., Thibaut P., Thompson L., Tintoré J., Tison C., Tourain C., Tournadre J., Townsend B., Tran N., Trilles S., Tsamados M., Tseng K.-H., Ubelmann C., Uebbing B., Vergara O., Verron J., Vieira T., Vignudelli S., Vinogradova Shiffer N., Visser P., Vivier F., Volkov D., von Schuckmann K., Vuglinskii V., Vuilleumier P., Walter B., Wang J., Wang C., Watson C., Wilkin J., Willis J., Wilson H., Woodworth P., Yang K., Yao F., Zaharia R., Zakharova E., Zaron E.D., Zhang Y., Zhao Z., Zinchenko V., Zlotnicki V., International Altimetry Team (2021) Altimetry for the future: Building on 25 years of progress. *Advances in Space Research*, 68(2):319-363. doi:10.1016/j.asr.2021.01.022
2. Abdul Wahab M.A., Wilson N.G., Prada D., Gomez O., Fromont J. (2021) Molecular and morphological assessment of tropical sponges in the subfamily *Phyllospongiinae*, with the descriptions of two new species. *Zoological Journal of the Linnean Society*, 193(1):319-335. doi: 10.1093/zoolinnean/zlaa133

3. Adam A.A.S., Garcia R.A., Galaiduk R., Tomlinson S., Radford B., Thomas L., Richards Z.T. (2021) Diminishing potential for tropical reefs to function as coral diversity strongholds under climate change conditions. *Diversity and Distributions*, 27(11):2245-2261. doi: 10.1111/ddi.13400
4. Addamo A.M., Miller K.J., Häussermann V., Taviani M., Machordom A. (2021) Global-scale genetic structure of a cosmopolitan cold-water coral species. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 31(1):1-14. doi: 10.1002/aqc.3421
5. Ahmadi G.N., Cheng S.H., Andradi-Brown D.A., Baez S.K., Barnes M.D., Bennett N.J., Campbell S.J., Darling E.S., Estradivari E.S., Gill D., Gress E., Gurney G.G., Horigue V., Jakub R., Kennedy E.V., Mahajan S.L., Mangubhai S., Matsuda S.B., Muthiga N.A., Navarro M.O., Santodomingo N., Vallès H., Veverka L., Villagomez A., Wenger A.S., Wosu A. (2021) Limited Progress in Improving Gender and Geographic Representation in Coral Reef Science. *Frontiers in Marine Science*, 8:731037. doi: 10.3389/fmars.2021.731037
6. Anderson E.D., Bartolino V., Birchenough S., Browman H.I., Gibbs M., Hidalgo M., Pallezo R., Yates K. (2021) Sidney Holt's legacy lives on in fisheries science. *ICES Journal of Marine Science*, 78(6):2150-2154. doi: 10.1093/icesjms/fsab091
7. Ani C.J., Robson B. (2021) Responses of marine ecosystems to climate change impacts and their treatment in biogeochemical ecosystem models. *Marine Pollution Bulletin*, 166:112223. doi: 10.1016/j.marpolbul.2021.112223
8. Arrowsmith L.M., Paidi C.K., Bloch F.H., John S., Choudhury B.C., Kaul R., Sequeira A.M.M., Pattiaratchi C.B., Meekan M.G. (2021) First Insights Into the Horizontal Movements of Whale Sharks (*Rhincodon typus*) in the Northern Arabian Sea. *Frontiers in Marine Science*, 8:682730. doi: 10.3389/fmars.2021.682730
9. Arrowsmith L.M., Sequeira A.M.M., Pattiaratchi C.B., Meekan M.G. (2021) Water temperature is a key driver of horizontal and vertical movements of an ocean giant, the whale shark *Rhincodon typus*. *Marine Ecology Progress Series*, 679:101-114. doi: 10.3354/meps13899
10. Babcock R.C., Thomson D.P., Haywood M.D.E., Vanderklift M.A., Pillans R., Rochester W.A., Miller M., Speed C.W., Shedrawi G., Field S., Evans R., Stoddart J., Hurley T.J., Thompson A., Gilmour J., Depczynski M. (2021) Recurrent coral bleaching in north-western Australia and associated declines in coral cover. *Marine and Freshwater Research*, 72(5):620-632. doi: 10.1071/MF19378
11. Baird A.H., Guest J.R., Edwards A.J., Bauman A.G., Bouwmeester J., Mera H., Abrego D., Alvarez-Noriega M., Babcock R.C., Barbosa M.B., Bonito V., Burt J., Cabaitan P.C., Chang C.-F., Chavanich S., Chen C.A., Chen C.-J., Chen W.-J., Chung F.-C., Connolly S.R., Cumbo V.R., Dornelas M., Doropoulos C., Eyal G., Eyal-Shaham L., Fadli N., Figueiredo J., Flot J.-F., Gan S.-H., Gomez E., Graham E.M., Grinblat M., Gutiérrez-Isaza N., Harii S., Harrison P.L., Hatta M., Ho N.A.J., Hoarau G., Hoogenboom M., Howells E.J., Iguchi A., Isomura N., Jamodiong E.A., Jandang S., Keyse J., Kitanobo S., Kongjandtre N., Kuo C.-Y., Ligson C., Lin C.-H., Low J., Loya Y., Maboloc E.A., Madin J.S., Mezaki T., Min C., Morita M., Moya A., Neo S.-H., Nitschke M.R., Nojima S., Nozawa Y., Piromvaragorn S., Plathong S., Puill-Stephan E., Quigley K., Ramirez-Portilla C., Ricardo G., Sakai K., Sampayo E., Shlesinger T., Sikim L., Simpson C., Sims C.A., Sinniger F., Spiji D.A., Tabalanza T., Tan C.-H., Terraneo T.I., Torda G., True J., Tun K., Vicentuan K., Viyakarn V., Waheed Z., Ward S., Willis B., Woods R.M., Woolsey E.S., Yamamoto H.H., Yusuf S. (2021) An Indo-Pacific coral spawning database. *Scientific Data*, 8(1):35. doi: 10.1038/s41597-020-00793-8
12. Baird M.E., Mongin M., Rizwi F., Bay L.K., Cantin N.E., Morris L.A., Skerratt J. (2021) The effect of natural and anthropogenic nutrient and sediment loads on coral oxidative stress on runoff-exposed reefs. *Marine Pollution Bulletin*, 168:112409. doi: 10.1016/j.marpolbul.2021.112409
13. Bairos-Novak K.R., Hoogenboom M.O., van Oppen M.J.H., Connolly S.R. (2021) Coral adaptation to climate change: Meta-analysis reveals high heritability across multiple traits. *Global Change Biology*, 27(22):5694-5710. doi: 10.1111/gcb.15829
14. Balu V., Messmer V., Logan M., Hayashida-Boyles A.L., Uthicke S. (2021) Is predation of juvenile crown-of-thorns seastars (*Acanthaster cf. solaris*) by peppermint shrimp (*Lysmata vittata*) dependent on age, size, or diet? *Coral Reefs*, 40(2):641-649. doi: 10.1007/s00338-020-02047-w

15. Barneche D.R., Hulatt C.J., Dossena M., Padfield D., Woodward G., Trimmer M., Yvon-Durocher G. (2021) Warming impairs trophic transfer efficiency in a long-term field experiment. *Nature*, 592:76-79. doi: 10.1038/s41586-021-03352-2
16. Barton J.A., Neil R.C., Humphrey C., Bourne D.G., Hutson K.S. (2021) Efficacy of chemical treatments for *Acropora*-eating flatworm infestations. *Aquaculture*, 532:735978. doi: 10.1016/j.aquaculture.2020.735978
17. Bates A.E., Primack R.B., Biggar B.S., Bird T.J., Clinton M.E., Command R.J., Richards C., Shellard M., Geraldini N.R., Vergara V., Acevedo-Charry O., Colón-Piñeiro Z., Ocampo D., Ocampo-Peñuela N., Sánchez-Clavijo L.M., Adamescu C.M., Cheval S., Racoviceanu T., Adams M.D., Kalisa E., Kuuire V.Z., Aditya V., Anderwald P., Wiesmann S., Wipf S., Badihi G., Henderson M.G., Loetscher H., Baerenfaller K., Benedetti-Cecchi L., Bulleri F., Bertocci I., Maggi E., Rindi L., Ravaglioli C., Boerder K., Bonnel J., Mathias D., Archambault P., Chauvaud L., Braun C.D., Thorrold S.R., Brownscombe J.W., Midwood J.D., Boston C.M., Brooks J.L., Cooke S.J., China V., Roll U., Belmaker J., Zvuloni A., Coll M., Ortega M., Connors B., Lacko L., Jayathilake D.R.M., Costello M.J., Crimmins T.M., Barnett L., Denny E.G., Gerst K.L., Marsh R.L., Posthumus E.E., Rodriguez R., Rosemartin A., Schaffer S.N., Switzer J.R., Wong K., Cunningham S.J., Sumasgutner P., Amar A., Thomson R.L., Stofberg M., Hofmeyr S., Suri J., Stuart-Smith R.D., Day P.B., Edgar G.J., Cooper A.T., De Leo F.C., Garner G., Des Brisay P.G., Schrimpf M.B., Koper N., Diamond M.S., Dwyer R.G., Baker C.J., Franklin C.E., Efrat R., Berger-Tal O., Hatzofe O., Eguíluz V.M., Rodríguez J.P., Fernández-Gracia J., Elustondo D., Calatayud V., English P.A., Archer S.K., Dudas S.E., Haggarty D.R., Gallagher A.J., Shea B.D., Shipley O.N., Gilby B.L., Ballantyne J., Olds A.D., Henderson C.J., Schlacher T.A., Halliday W.D., Brown N.A.W., Woods M.B., Balshine S., Juanes F., Rider M.J., Albano P.S., Hammerschlag N., Hays G.C., Esteban N., Pan Y., He G., Tanaka T., Hensel M.J.S., Orth R.J., Patrick C.J., Hentati-Sundberg J., Olsson O., Helsing-Lewis M.L., Higgs N.D., Hindell M.A., McMahon C.R., Harcourt R., Guinet C., Hirsch S.E., Perrault J.R., Hoover S.R., Reilly J.D., Hobaiter C., Gruber T., Huveneers C., Udyawer V., Clarke T.M., Kroesen L.P., Hik D.S., Cherry S.G., Del Bel Belluz J.A., Jackson J.M., Lai S., Lamb C.T., LeClair G.D., Parmelee J.R., Chatfield M.W.H., Frederick C.A., Lee S., Park H., Choi J., LeTourneux F., Grandmont T., de-Broin F.D., Bêty J., Gauthier G., Legagneux P., Lewis J.S., Haight J., Liu Z., Lyon J.P., Hale R., D'Silva D., MacGregor-Fors I., Arbeláez-Cortés E., Estela F.A., Sánchez-Sarria C.E., García-Arroyo M., Aguirre-Samboní G.K., Franco Morales J.C., Malamud S., Gavriel T., Buba Y., Salingré S., Lazarus M., Yahel R., Ari Y.B., Miller E., Sade R., Lavian G., Birman Z., Gury M., Baz H., Baskin I., Penn A., Dolev A., Licht O., Karkom T., Davidzon S., Berkovitch A., Yaakov O., Manenti R., Mori E., Ficetola G.F., Lunghi E., March D., Godley B.J., Martin C., Mihaly S.F., Barclay D.R., Thomson D.J.M., Dewey R., Bedard J., Miller A., Dearden A., Chapman J., Dares L., Borden L., Gibbs D., Schultz J., Sergeenko N., Francis F., Weltman A., Moity N., Ramírez-González J., Mucientes G., Alonso-Fernández A., Namir I., Bar-Massada A., Chen R., Yedvab S., Okey T.A., Opper S., Arkumarev V., Bakari S., Dobrev V., Saravia-Mullin V., Bounas A., Dobrev D., Kret E., Mengistu S., Pourchier C., Ruffo A., Tesfaye M., Wondafrash M., Nikolov S.C., Palmer C., Sileci L., Rex P.T., Lowe C.G., Peters F., Pine M.K., Radford C.A., Wilson L., McWhinnie L., Scuderi A., Jeffs A.G., Prudic K.L., Larrivé M., McFarland K.P., Solis R., Hutchinson R.A., Queiroz N., Furtado M.A., Sims D.W., Southall E., Quesada-Rodríguez C.A., Diaz-Orozco J.P., Rodgers K.S., Severino S.J.L., Graham A.T., Stefanak M.P., Madin E.M.P., Ryan P.G., Maclean K., Weideman E.A., Şekercioğlu Ç.H., Kittelberger K.D., Kusak J., Seminoff J.A., Hanna M.E., Shimada T., Meekan M.G., Smith M.K.S., Mokhatla M.M., Soh M.C.K., Pang R.Y.T., Ng B.X.K., Lee B.P.Y.-H., Loo A.H.B., Er K.B.H., Souza G.B.G., Stallings C.D., Curtis J.S., Faletti M.E., Peake J.A., Schram M.J., Wall K.R., Terry C., Rothendler M., Zipf L., Ulloa J.S., Hernández-Palma A., Gómez-Valencia B., Cruz-Rodríguez C., Herrera-Varón Y., Roa M., Rodríguez-Buriticá S., Ochoa-Quintero J.M., Vardi R., Vázquez V., Requena-Mesa C., Warrington M.H., Taylor M.E., Woodall L.C., Stefanoudis P.V., Zhang X., Yang Q., Zukerman Y., Sigal Z., Ayali A., Clua E.E.G., Carzon P., Seguine C., Corradini A., Pedrotti L., Foley C.M., Gagnon C.A., Panipakoochoo E., Milanes C.B., Botero C.M., Velázquez Y.R., Milchakova N.A., Morley S.A., Martin S.M., Nanni V., Otero T., Wakeling J., Abarro S., Piou C., Sobral A.F.L., Soto E.H., Weigel E.G., Bernal-Ibáñez A., Gestoso I., Cacabelos E., Cagnacci F., Devassy R.P., Loretto M.-C., Moraga P., Rutz C., Duarte C.M. (2021) Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. *Biological Conservation*, 263:109175. doi: 10.1016/j.biocon.2021.109175
18. Bay L.K., Howells E.J. (2021) Mapping the future for coral reefs. *eLife*, 10:e72978. doi: 10.7554/eLife.72978

19. Beltrán V.H., Puill-Stephan E., Howells E., Flores-Moya A., Doblin M., Núñez-Lara E., Escamilla V., López T., van Oppen M.J.H. (2021) Physiological diversity among sympatric, conspecific endosymbionts of coral (*Cladocopium* C1^{acro}) from the Great Barrier Reef. *Coral Reefs*, 40(4):985-997. doi: 10.1007/s00338-021-02092-z
20. Benkwitt C.E., Taylor B.M., Meekan M.G., Graham N.A.J. (2021) Natural nutrient subsidies alter demographic rates in a functionally important coral-reef fish. *Scientific Reports*, 11(1):12575. doi: 10.1038/s41598-021-91884-y
21. Benthuisen J.A., Smith G.A., Spillman C.M., Steinberg C.R. (2021) Subseasonal prediction of the 2020 Great Barrier Reef and Coral Sea marine heatwave. *Environmental Research Letters*, 16(12):124050. doi: 10.1088/1748-9326/ac3aa1
22. Berry K.L.E., Hess S., Clark T.D., Wenger A.S., Hoogenboom M.O., Negri A.P. (2021) Effects of suspended coal particles on gill structure and oxygen consumption rates in a coral reef fish. *Marine Pollution Bulletin*, 169:112459. doi: 10.1016/j.marpolbul.2021.112459
23. Bertucci F., Lecchini D., Greeven C., Brooker R.M., Minier L., Cordonnier S., René-Trouillefou M., Parmentier E. (2021) Changes to an urban marina soundscape associated with COVID-19 lockdown in Guadeloupe. *Environmental Pollution*, 289:117898. doi: 10.1016/j.envpol.2021.117898
24. Birt M.J., Cure K., Wilson S., Newman S.J., Harvey E.S., Meekan M., Speed C., Heyward A., Goetze J., Gilmour J. (2021) Isolated reefs support stable fish communities with high abundances of regionally fished species. *Ecology and Evolution*, 11(9):4701-4718. doi: 10.1002/ece3.7370
25. Birt M.J., Langlois T.J., McLean D., Harvey E.S. (2021) Optimal deployment durations for baited underwater video systems sampling temperate, subtropical and tropical reef fish assemblages. *Journal of Experimental Marine Biology and Ecology*, 538:151530. doi: 10.1016/j.jembe.2021.151530
26. Bond T., McLean D.L., Wakefield C.B., Partridge J.C., Prince J., White D., Boddington D.K., Newman S.J. (2021) Quantifying fishing activity targeting subsea pipelines by commercial trap fishers. *Reviews in Fish Biology and Fisheries*, 31(4):1009-1023. doi: 10.1007/s11160-021-09686-4
27. Bongaerts P., Cooke I.R., Ying H., Wels D., den Haan S., Hernandez-Agreda A., Brunner C.A., Dove S., Englebert N., Eyal G., Forêt S., Grinblat M., Hay K.B., Harii S., Hayward D.C., Lin Y., Mihaljević M., Moya A., Muir P., Sinniger F., Smallhorn-West P., Torda G., Ragan M.A., van Oppen M.J.H., Hoegh-Guldberg O. (2021) Morphological stasis masks ecologically divergent coral species on tropical reefs. *Current Biology*, 31(11):2286-2298. doi: 10.1016/j.cub.2021.03.028
28. Bouwmeester J., Coker D.J., Sinclair-Taylor T.H., Berumen M.L. (2021) Broadcast spawning of *Pocillopora verrucosa* across the eastern and western coast of the central Red Sea. *Ecosphere*, 12(1):e03340. doi: 10.1002/ecs2.3340
29. Brunner C.A., Uthicke S., Ricardo G.F., Hoogenboom M.O., Negri A.P. (2021) Climate change doubles sedimentation-induced coral recruit mortality. *Science of the Total Environment*, 768:143897. doi: 10.1016/j.scitotenv.2020.143897
30. Budd A.M., Cooper M.K., Port A.L., Schils T., Mills M.S., Deinhart M.E., Huerlimann R., Strugnell J.M. (2021) First detection of critically endangered scalloped hammerhead sharks (*Sphyrna lewini*) in Guam, Micronesia, in five decades using environmental DNA. *Ecological Indicators*, 127:107649. doi: 10.1016/j.ecolind.2021.107649
31. Canto M.M., Fabricius K.E., Logan M., Lewis S., McKinna L.I.W., Robson B.J. (2021) A benthic light index of water quality in the Great Barrier Reef, Australia. *Marine Pollution Bulletin*, 169:112539. doi: 10.1016/j.marpolbul.2021.112539
32. Carlot J., Kayal M., Lenihan H.S., Brandl S.J., Casey J.M., Adjeroud M., Cardini U., Merciere A., Espiau B., Barneche D.R., Rovere A., Hédouin L., Parravicini V. (2021) Juvenile corals underpin coral reef carbonate production after disturbance. *Global Change Biology*, 27(11):2623-2632. doi: 10.1111/gcb.15610
33. Carmody H., Langlois T., Mitchell J., Navarro M., Bosch N., McLean D., Monk J., Lewis P., Jackson G. (2021) Shark depredation in a commercial trolling fishery in sub-tropical Australia. *Marine Ecology Progress Series*, 676:19-35. doi: 10.3354/meps13847
34. Carreira C., Talbot S., Lønborg C. (2021) Bacterial consumption of total and dissolved organic carbon in the Great Barrier Reef. *Biogeochemistry*, 154(3):489-508. doi: 10.1007/s10533-021-00802-x

35. Carter A.B., Collier C., Lawrence E., Rasheed M.A., Robson B.J., Coles R. (2021) A spatial analysis of seagrass habitat and community diversity in the Great Barrier Reef World Heritage Area. *Scientific Reports*, 11(1):22344. doi: 10.1038/s41598-021-01471-4
36. Castro-Sanguino C., Ortiz J.C., Thompson A., Wolff N.H., Ferrari R., Robson B., Magno-Canto M.M., Puotinen M., Fabricius K.E., Uthicke S. (2021) Reef state and performance as indicators of cumulative impacts on coral reefs. *Ecological Indicators*, 123:107335. doi: 10.1016/j.ecolind.2020.107335
37. Chan W.Y., Chung J., Peplow L.M., Hoffmann A.A., van Oppen M.J.H. (2021) Maternal effects in gene expression of interspecific coral hybrids. *Molecular Ecology*, 30(2):517-527. doi: 10.1111/mec.15727
38. Chan W.Y., Oakeshott J.G., Buerger P., Edwards O.R., van Oppen M.J.H. (2021) Adaptive responses of free-living and symbiotic microalgae to simulated future ocean conditions, *Global Change Biology*, 27(9):1737-1754. doi: 10.1111/gcb.15546
39. Chapman D.D., Ali K., MacNeil M.A., Heupel M.R., Meekan M., Harvey E.S., Simpfendorfer C.A., Heithaus M.R. (2021) Long-term investment in shark sanctuaries. *Science*, 372(6541):473. doi: 10.1126/science.abj0147
40. Chapple T.K., Tickler D., Roche R.C., Bayley D.T.I., Gleiss A.C., Kanive P.E., Jewell O.J.D., Jorgensen S.J., Schallert R., Carlisle A.B., Pilly J.S., Andrzejczek S., Wikelski M., Hussey N.E., Block B.A. (2021) Ancillary data from animal-borne cameras as an ecological survey tool for marine communities. *Marine Biology*, 168(7):106. doi: 10.1007/s00227-021-03916-w
41. Chapple, T.K., Tickler, D., Roche, R.C., Bayley D.T.I., Gleiss A.C., Kanive P.E., Jewell O.J.D., Jorgensen S. J., Schallert R., Carlisle A.B., Sannassy Pilly J., Andrzejczek S., Wikelski M., Hussey N. E., Block B.A., (2021) Ancillary data from animal-borne cameras as an ecological survey tool for marine communities. *Marine Biology*, 168:106. doi: 10.1007/s00227-021-03916-w
42. Cheal A.J., Emslie M.J., Currey-Randall L.M., Heupel M.R. (2021) Comparability and complementarity of reef fish measures from underwater visual census (UVC) and baited remote underwater video stations (BRUVS). *Journal of Environmental Management*, 289:112375. doi: 10.1016/j.jenvman.2021.112375
43. Clementi G.M., Bakker J., Flowers K.I., Postaire B.D., Babcock E.A., Bond M.E., Buddo D., Cardeñosa D., Currey-Randall L.M., Goetze J.S., Harvey E.S., Heupel M., Kiszka J.J., Kyne F., MacNeil M.A., Meekan M.G., Rees M.J., Simpfendorfer C.A., Speed C.W., Heithaus M.R., Chapman D.D. (2021) Moray eels are more common on coral reefs subject to higher human pressure in the greater Caribbean. *iScience*, 24(3):102097. doi: 10.1016/j.isci.2021.102097
44. Condie S.A., Anthony K.R.N., Babcock R.C., Baird M.E., Beeden R., Fletcher C.S., Gorton R., Harrison D., Hobday A.J., Plagányi E.E., Westcott D.A. (2021) Large-scale interventions may delay decline of the Great Barrier Reef. *Royal Society Open Science*, 8(4)201296. doi:10.1098/rsos.201296
45. Cornwall C.E., Comeau S., Kornder N.A., Perry C.T., van Hooijdonk R., DeCarlo T.M., Pratchett M.S., Anderson K.D., Browne N., Carpenter R., Diaz-Pulido G., D'Olivo J.P., Doo S.S., Figueiredo J., Fortunato S.A.V., Kennedy E., Lantz C.A., McCulloch M.T., González-Rivero M., Schoepf V., Smithers S.G., Lowe R.J. (2021) Global declines in coral reef calcium carbonate production under ocean acidification and warming. *Proceedings of the National Academy of Sciences of the United States of America*, 118(21):e2015265118. doi: 10.1073/pnas.2015265118
46. Cresswell A.K., Ryan N.M., Heyward A.J., Smith A.N.H., Colquhoun J., Case M., Birt M.J., Chinkin M., Wyatt M., Radford B., Costello P., Gilmour J.P. (2021) A quantitative comparison of towed-camera and diver-camera transects for monitoring coral reefs. *PeerJ*, 9:e11090. doi: 10.7717/peerj.11090
47. Cure K., Currey-Randall L., Galaiduk R., Radford B., Wakeford M., Heyward A. (2021) Depth gradients in abundance and functional roles suggest limited depth refuges for herbivorous fishes. *Coral Reefs*, 40(2):365-379. doi: 10.1007/s00338-021-02060-7
48. Currey-Randall L.M., Galaiduk R., Stowar M., Vaughan B.I., Miller K.J. (2021) Mesophotic fish communities of the ancient coastline in Western Australia. *PLoS ONE*, 16(4):e0250427. doi: 10.1371/journal.pone.0250427
49. Cvitanovic C., Mackay M., Kelly R., Wilson S.K., Waples K., Nash K.L., van Putten E.I., Field S., Botterill-James T., Austin B.J., Beckley L.E., Boschetti F., Depczynski M., Dobbs R.J., Evans R.D., Feng M., Goater R.K., Halford A.R., Kendrick A., Kendrick G., Lincoln G.D.B., Ludgerus L.J., Lowe R.J., McMahon K., Munro J.K., Newman

- S.J., Nutt C., Pearson L., O'Leary M.J., Richards Z.T., Robbins W.D., Rogers D.I., Salgado Kent C.P., Schoepf V., Travers M.J., Thums M., Tucker A.D., Underwood J.N., Whiting S., Mathews D., Dambimangari Aboriginal Corporation (2021) Thirty critical research needs for managing an ecologically and culturally unique remote marine environment: The Kimberley region of Western Australia. *Ocean and Coastal Management*, 212:105771. doi: 10.1016/j.ocecoaman.2021.105771
50. D'Agostino D., Burt J.A., Santinelli V., Vaughan G.O., Fowler A.M., Reader T., Taylor B.M., Hoey A.S., Cavalcante G.H., Bauman A.G., Feary D.A. (2021) Growth impacts in a changing ocean: insights from two coral reef fishes in an extreme environment. *Coral Reefs*, 40(2):433-446. doi: 10.1007/s00338-021-02061-6
 51. Daly R., Filmlalter J.D., Peel L.R., Mann B.Q., Lea J.S.E., Clarke C.R., Cowley P.D. (2021) Ontogenetic shifts in home range size of a top predatory reef-associated fish (*Caranx ignobilis*): implications for conservation. *Marine Ecology Progress Series*, 664:165-182. doi: 10.3354/meps13654
 52. Dawson A.L., Santana M.F.M., Miller M.E., Kroon F.J. (2021) Relevance and reliability of evidence for microplastic contamination in seafood: A critical review using Australian consumption patterns as a case study. *Environmental Pollution*, 276:116684. doi: 10.1016/j.envpol.2021.116684
 53. Desbiens A.A., Roff G., Robbins W.D., Taylor B.M., Castro-Sanguino C., Dempsey A., Mumby P.J. (2021) Revisiting the paradigm of shark-driven trophic cascades in coral reef ecosystems. *Ecology*, 102(4):e03303. doi:10.1002/ecy.3303
 54. DiBattista J.D., Berumen M. L., Priest M. A., De Brauwer M., Coker D. J., Sinclair-Taylor T. H., Hay A., Bruss G., Mansour S., Bunce M., Goatley C. H. R., Power M., Marshall A. (2021) Environmental DNA reveals a multi-taxa biogeographic break across the Arabian Sea and Sea of Oman. *Environmental DNA*, 4(1):206-221. doi:10.1002/edn3.252
 55. DiBattista J.D., Taylor B.M., Hobbs J.-P.A., Sinclair-Taylor T.H., Coker D.J., Trip E.D.L., Choat J.H., Lozano-Cortés D., Kandler N.M., Berumen M.L. (2021) Growth patterns of specialized reef fishes distributed across the Red Sea to Gulf of Aden. *Environmental Biology of Fishes*, 104(8): 967-976, doi:10.1007/s10641-021-01129-0
 56. Doll P.C., Messmer V., Uthicke S., Doyle J.R., Caballes C.F., Pratchett M.S. (2021) DNA-Based Detection and Patterns of Larval Settlement of the Corallivorous Crown-of-Thorns Sea Star (*Acanthaster* sp.). *Biological Bulletin*, 241(3):271-285. doi:10.1086/717539
 57. Doyle J., Uthicke S. (2021) Sensitive environmental DNA detection via lateral flow assay (dipstick)—A case study on corallivorous crown-of-thorns sea star (*Acanthaster cf. solaris*) detection. *Environmental DNA*, 3(2):323-342. doi:10.1002/edn3.123
 58. Duarte C.M., Chapuis L., Collin S.P., Costa D.P., Devassy R.P., Eguiluz V.M., Erbe C., Gordon T.A.C., Halpern B.S., Harding H.R., Havlik M.N., Meekan M., Merchant N.D., Miksis-Olds J.L., Parsons M., Predragovic M., Radford A.N., Radford C.A., Simpson S.D., Slabbekoorn H., Staaterman E., Van Opzeeland I.C., Winderen J., Zhang X., Juanes F. (2021) The soundscape of the Anthropocene ocean. *Science*, 371(6529):eaba4658. doi: 10.1126/science.aba4658
 59. Dugal L., Thomas L., Jensen M.R., Sigsgaard E.E., Simpson T., Jarman S., Thomsen P.F., Meekan M. (2021) Individual haplotyping of whale sharks from seawater environmental DNA. *Molecular Ecology Resources*, 22(1):56-65. doi: 10.1111/1755-0998.13451
 60. Dungan A.M., Bulach D., Lin H., van Oppen M.J.H., Blackall L.L. (2021) Development of a free radical scavenging bacterial consortium to mitigate oxidative stress in cnidarians. *Microbial Biotechnology*, 14(5):2025-2040. doi: 10.1111/1751-7915.13877
 61. Dungan A.M., van Oppen M.J.H., Blackall L.L. (2021) Short-Term Exposure to Sterile Seawater Reduces Bacterial Community Diversity in the Sea Anemone, *Exaiptasia diaphana*. *Frontiers in Marine Science*, 7:599314. doi: 10.3389/fmars.2020.599314
 62. Engelberts J.P., Robbins S.J., Damjanovic K., Webster N.S. (2021) Integrating novel tools to elucidate the metabolic basis of microbial symbiosis in reef holobionts. *Marine Biology*, 168(12):175. doi: 10.1007/s00227-021-03952-6

63. Enochs I.C., Toth L.T., Kirkland A., Manzello D.P., Kolodziej G., Morris J.T., Holstein D.M., Schlenz A., Randall C.J., Maté J.L., Leichter J.J., Aronson R.B. (2021) Upwelling and the persistence of coral-reef frameworks in the eastern tropical Pacific. *Ecological Monographs*, 91(4):e01482. doi: 10.1002/ecm.1482
64. Espinoza M., Lédée E.J.I., Smoothey A.F., Heupel M.R., Peddemors V.M., Tobin A.J., Simpfendorfer C.A. (2021) Intra-specific variation in movement and habitat connectivity of a mobile predator revealed by acoustic telemetry and network analyses. *Marine Biology*, 168(6):80. doi: 10.1007/s00227-021-03886-z
65. Evans R.D., Thomas L., Kennington W.J., Ryan N.M., Wilson N.G., Richards Z., Lowe R.J., Tuckett C. (2021) Population genetic structure of a broadcast-spawning coral across a tropical–temperate transition zone reveals regional differentiation and high-latitude reef isolation. *Journal of Biogeography*, 48(12):3185–3195. doi: 10.1111/jbi.14280
66. Evensen N.R., Vanwongterghem I., Doropoulos C., Gouezo M., Botté E.S., Webster N.S., Mumby P.J. (2021) Benthic micro- and macro-community succession and coral recruitment under overfishing and nutrient enrichment. *Ecology*, 102(12):e03536. doi: 10.1002/ecy.3536
67. Ferrari R., Lachs L., Pygas D.R., Humanes A., Sommer B., Figueira W.F., Edwards A.J., Bythell J.C., Guest J.R. (2021) Photogrammetry as a tool to improve ecosystem restoration. *Trends in Ecology & Evolution*, 36(12):1093–1101. doi: 10.1016/j.tree.2021.07.004
68. Ferreira L.C., Thums M., Fossette S., Wilson P., Shimada T., Tucker A.D., Pendoley K., Waayers D., Guinea M.L., Loewenthal G., King J., Speirs M., Rob D., Whiting S.D. (2021) Multiple satellite tracking datasets inform green turtle conservation at a regional scale. *Diversity and Distributions*, 27(2):249–266. doi: 10.1111/ddi.13197
69. Filippi M., Hadjighasem A., Rayson M., Rypina I.I., Ivey G., Lowe R., Gilmour J., Peacock T. (2021) Investigating transport in a tidally driven coral atoll flow using Lagrangian coherent structures. *Limnology and Oceanography*, 66(11):4017–4027. doi: 10.1002/lno.11939
70. Flores F., Marques J.A., Uthicke S., Fisher R., Patel F., Kaserzon S., Negri A.P. (2021) Combined effects of climate change and the herbicide diuron on the coral *Acropora millepora*. *Marine Pollution Bulletin*, 169:112582. doi: 10.1016/j.marpolbul.2021.112582
71. Fossette S., Ferreira L.C., Whiting S.D., King J., Pendoley K., Shimada T., Speirs M., Tucker A.D., Wilson P., Thums M. (2021) Movements and distribution of hawksbill turtles in the Eastern Indian Ocean. *Global Ecology and Conservation*, 29:e01713. doi: 10.1016/j.gecco.2021.e01713
72. Fox D.R., van Dam R.A., Fisher R., Batley G.E., Tillmanns A.R., Thorley J., Schwarz C.J., Spry D.J., McTavish K. (2021) Recent Developments in Species Sensitivity Distribution Modeling. *Environmental Toxicology and Chemistry*, 40(2):293–0308. doi: 10.1002/etc.4925
73. French B., Wilson S., Holmes T., Kendrick A., Rule M., Ryan N. (2021) Comparing five methods for quantifying abundance and diversity of fish assemblages in seagrass habitat. *Ecological Indicators*, 124:107415. doi: 10.1016/j.ecolind.2021.107415
74. Gibbs M.T. (2021) Developing a regional-scale reef restoration activity for the tropics. *Regional Environmental Change*, 21(4):99. doi: 10.1007/s10113-021-01843-6
75. Gibbs M.T. (2021) Technology requirements, and social impacts of technology for at-scale coral reef restoration. *Technology in Society*, 66:101622, doi: 10.1016/j.techsoc.2021.101622
76. Gibbs M.T., Gibbs B.L., Newlands M., Ivey J. (2021) Scaling up the global reef restoration activity: Avoiding ecological imperialism and ongoing colonialism. *PLoS ONE*, 16:e0250870. doi: 10.1371/journal.pone.0250870
77. Glasl B., Haskell J.B., Aires T., Serrão E.A., Bourne D.G., Webster N.S., Frade P.R. (2021) Microbial surface biofilm responds to the growth-reproduction-senescence cycle of the dominant coral reef macroalgae *Sargassum* spp. *Life*, 11(11):1199. doi: 10.3390/life11111199
78. Goetze J.S., Wilson S., Radford B., Fisher R., Langlois T.J., Monk J., Knott N.A., Malcolm H., Currey-Randall L.M., Ierodiaconou D., Harasti D., Barrett N., Babcock R.C., Bosch N.E., Brock D., Claudet J., Clough J., Fairclough D.V., Heupel M.R., Holmes T.H., Huveneers C., Jordan A.R., McLean D., Meekan M., Miller D., Newman S.J., Rees M.J., Roberts K.E., Saunders B.J., Speed C.W., Travers M.J., Trembl E., Whitmarsh S.K., Wakefield C.B., Harvey E.S. (2021) Increased connectivity and depth improve the effectiveness of marine reserves. *Global Change Biology*, 27(15):3432–3447. doi: 10.1111/gcb.15635

79. Gouezo M., Fabricius K., Harrison P., Golbuu Y., Doropoulos C. (2021) Optimizing coral reef recovery with context-specific management actions at prioritized reefs. *Journal of Environmental Management*, 295:113209. doi: 10.1016/j.jenvman.2021.113209
80. Gould J., Smyth D., Rassip W., Rist P., Oxenham K. (2021) Recognizing the contribution of Indigenous Protected Areas to marine protected area management in Australia. *Maritime Studies*, 20(1): 5-26. doi: 10.1007/s40152-020-00212-z
81. Greenslade D.J.M., Hemer M.A., Young I.R., Steinberg C.R. (2021) Structured design of Australia's in situ wave observing network. *Journal of Operational Oceanography*. doi: 10.1080/1755876X.2021.1928394
82. Haller-Bull V., Bode M. (2021) Modeling herbivore functional responses causing boom-bust dynamics following predator removal. *Ecology and Evolution*, 11(5):2209-2220. doi: 10.1002/ece3.7185
83. Hamilton R.J., Lozano-Cortés D., Bode M., Almany G., Harrison H.B., Pita J., Saenz-Agudelo P., Gereniu C., Waldie P.A., Peterson N., Choat J.H., Berumen M.L. (2021) Larval dispersal and fishing pressure influence recruitment in a coral reef fishery. *Journal of Applied Ecology*, 58(12):2924-2935. doi: 10.1111/1365-2664.14027
84. Harvey E.S., McLean D.L., Goetze J.S., Saunders B.J., Langlois T.J., Monk J., Barrett N., Wilson S.K., Holmes T.H., Ierodiaconou D., Jordan A.R., Meekan M.G., Malcolm H.A., Heupel M.R., Harasti D., Huveneers C., Knott N.A., Fairclough D.V., Currey-Randall L.M., Travers M.J., Radford B.T., Rees M.J., Speed C.W., Wakefield C.B., Cappo M., Newman S.J. (2021) The BRUVs workshop – An Australia-wide synthesis of baited remote underwater video data to answer broad-scale ecological questions about fish, sharks and rays. *Marine Policy*, 127:104430. doi: 10.1016/j.marpol.2021.104430
85. Hickey S.M., Radford B., Callow J.N., Phinn S.R., Duarte C.M., Lovelock C.E. (2021) ENSO feedback drives variations in dieback at a marginal mangrove site. *Scientific Reports*, 11(1):8130. doi: 10.1038/s41598-021-87341-5
86. Holland I., Bakri Y.M., Sakoff J., Zaleta Pinet D., Motti C., van Altena I. (2021) Bioactive α,β -conjugated 3-keto-steroids from the Australian brown alga *Cystophora xiphocarpa*. *Phytochemistry*, 188:112798. doi: 10.1016/j.phytochem.2021.112798
87. Hudspith M., Rix L., Achlatis M., Bougoure J., Guagliardo P., Clode P.L., Webster N.S., Muyzer G., Pernice M., de Goeij J.M. (2021) Subcellular view of host–microbiome nutrient exchange in sponges: insights into the ecological success of an early metazoan–microbe symbiosis. *Microbiome*, 9(1):44. doi: 10.1186/s40168-020-00984-w
88. Huveneers C., Jaine F.R.A., Barnett A., Butcher P.A., Clarke T.M., Currey-Randall L.M., Dwyer R.G., Ferreira L.C., Gleiss A.C., Hoenner X., Ierodiaconou D., Lédée E.J.I., Meekan M.G., Pederson H., Rizzari J.R., van Ruth P.D., Semmens J.M., Taylor M.D., Udyawer V., Walsh P., Heupel M.R., Harcourt R. (2021) The power of national acoustic tracking networks to assess the impacts of human activity on marine organisms during the COVID-19 pandemic. *Biological Conservation*, 256: 108995. doi: 10.1016/j.biocon.2021.108995
89. Illing B., Severati A., Hochen J., Boyd P., Raison P., Mather R., Downie A.T., Rummer J.L., Kroon F.J., Humphrey, C. (2021) Automated flow control of a multi-lane swimming chamber for small fishes indicates species-specific sensitivity to experimental protocols. *Conservation Physiology*. 9(1):coaa131. doi: 10.1093/conphys/coaa131
90. Jones R., Pineda M.-C., Luter H.M., Fisher R., Francis D., Klonowski W., Slivkoff M. (2021) Underwater Light Characteristics of Turbid Coral Reefs of the Inner Central Great Barrier Reef *Frontiers in Marine Science*. 8:727206. doi: 10.3389/fmars.2021.727206
91. Jones R., Wakeford M., Currey-Randall L., Miller K., Tonin H. (2021) Drill cuttings and drilling fluids (muds) transport, fate and effects near a coral reef mesophotic zone. *Marine Pollution Bulletin*, 172:112717. doi: 10.1016/j.marpolbul.2021.112717
92. Jung E.M.U., Stat M., Thomas L., Koziol A., Schoepf V. (2021) Coral host physiology and symbiont dynamics associated with differential recovery from mass bleaching in an extreme, macro-tidal reef environment in northwest Australia. *Coral Reefs*, 40(3):893-905. doi: 10.1007/s00338-021-02094-x
93. Kennedy E.V., Roelfsema C.M., Lyons M.B., Kovacs E.M., Borrego-Acevedo R., Roe M., Phinn S.R., Larsen K., Murray N.J., Yuwono D., Wolff J., Tudman P. (2021) Reef Cover, a coral reef classification for global habitat mapping from remote sensing. *Scientific Data*, 8(1):196. doi: 10.1038/s41597-021-00958-z

94. Klein A., Motti C., Hillberg A., Ventura T., Thomas-Hall P., Armstrong T., Barker T., Whatmore P., Cummins S. (2021) Development and Interrogation of a Transcriptomic Resource for the Giant Triton Snail (*Charonia tritonis*). *Marine Biotechnology*, 23(3): 501-515. doi: 10.1007/s10126-021-10042-7
95. Kleypas J., Allemand D., Anthony K., Baker A.C., Beck M.W., Hale L.Z., Hilmi N., Hoegh-Guldberg O., Hughes T., Kaufman L., Kayanne H., Magnan A.K., Mcleod E., Mumby P., Palumbi S., Richmond R.H., Rinkevich B., Steneck R.S., Voolstra C.R., Wachenfeld D., Gattuso J.-P. (2021) Designing a blueprint for coral reef survival. *Biological Conservation*, 257: 109107. doi: 10.1016/j.biocon.2021.109107
96. Kroon F.J., Barneche D.R., Emslie M.J. (2021) Fish predators control outbreaks of Crown-of-Thorns Starfish. *Nature Communications*, 12(1)6986. doi: 10.1038/s41467-021-26786-8
97. Kwong S.L.T., Villacorta-Rath C., Doyle J., Uthicke S. (2021) Quantifying shedding and degradation rates of environmental DNA (eDNA) from Pacific crown-of-thorns seastar (*Acanthaster cf. solaris*). *Marine Biology*, 168(6):85. doi: 10.1007/s00227-021-03896-x
98. Landero Figueroa M.M., Parsons M.J.G., Saunders B.J., Radford B., Parnum I.M. (2021) Testing the Improvement of Coral Reef Associated Fish Distribution Models Based on Multibeam Bathymetry by Adding Seafloor Backscatter Data. *Frontiers in Marine Science*, 8:688815. doi: 10.3389/fmars.2021.688815
99. Landero Figueroa M.M., Parsons M.J.G., Saunders B.J., Radford B., Salgado-Kent C., Parnum I.M. (2021) The use of singlebeam echo-sounder depth data to produce demersal fish distribution models that are comparable to models produced using multibeam echo-sounder depth. *Ecology and Evolution*, 11(24):17873-17884. doi: 10.1002/ece3.8351
100. Lange I.D., Benkwitt C.E., McDevitt-Irwin J.M., Tietjen K.L., Taylor B., Chinkin M., Gunn R.L., Palmisciano M., Steyaert M., Wilson B., East H.K., Turner J., Graham N.A.J., Perry C.T. (2021) Wave exposure shapes reef community composition and recovery trajectories at a remote coral atoll. *Coral Reefs*, 40(6):1819-1829. doi: 10.1007/s00338-021-02184-w
101. Lavin C.P., Jones G.P., Williamson D.H., Harrison H.B. (2021) Minimum size limits and the reproductive value of numerous, young, mature female fish. *Proceedings of the Royal Society B: Biological Sciences*, 288(1946):2714. doi: 10.1098/rspb.2020.2714
102. Lédée E.J.I., Heupel M.R., Taylor M.D., Harcourt R.G., Jaine F.R.A., Huveneers C., Udyawer V., Campbell H.A., Babcock R.C., Hoenner X., Barnett A., Braccini M., Brodie S., Butcher P.A., Cadiou G., Dwyer R.G., Espinoza M., Ferreira L.C., Fetterplace L., Fowler A., Harborne A.R., Knott N.A., Lowry M., McAllister J., McAuley R., Meekan M., Mills K., Peddemors V.M., Pillans R., Semmens J., Smoothey A.F., Speed C., Stehfest K., van der Meulen D., Simpfendorfer C.A. (2021) Continental-scale acoustic telemetry and network analysis reveal new insights into stock structure. *Fish and Fisheries*, 22(5):987-1005. doi: 10.1111/faf.12565
103. Lester E.K., Langlois T.J., McCormick M.I., Simpson S.D., Bond T., Meekan M.G. (2021) Relative influence of predators, competitors and seascape heterogeneity on behaviour and abundance of coral reef mesopredators. *Oikos*, 130(12):2239-2249. doi: 10.1111/oik.08463
104. Lester E.K., Langlois T.J., Simpson S.D., McCormick M.I., Meekan M.G. (2021) Reef-wide evidence that the presence of sharks modifies behaviors of teleost mesopredators. *Ecosphere*, 12(2):e03301. doi: 10.1002/ecs2.3301
105. Lloyd N., Sealey R., Logan M. (2021) Balancing the covid-19 disruption to undergraduate learning and assessment with an academic student support package: Implications for student achievement and engagement. *Student Success*, 12(2):61-71. doi: 10.5204/ssj.1933
106. Lønborg C., McKinna L.I.W., Slivkoff M.M., Carreira C. (2021) Coloured dissolved organic matter dynamics in the Great Barrier Reef. *Continental Shelf Research*, 219:104395. doi: 10.1016/j.csr.2021.104395
107. Lønborg C., Müller M., Butler E.C.V., Jiang S., Ooi S.K., Trinh D.H., Wong P.Y., Ali S.M., Cui C., Siong W.B., Yando E.S., Friess D.A., Rosentreter J.A., Eyre B.D., Martin P. (2021) Nutrient cycling in tropical and temperate coastal waters: Is latitude making a difference? *Estuarine, Coastal and Shelf Science*, 262:107571. doi:10.1016/j.ecss.2021.107571
108. Lowe J.R., Payet S.D., Harrison H.B., Hobbs J.-P.A., Hoey A.S., Taylor B.M., Sinclair-Taylor T.H., Pratchett M.S. (2021) Regional versus latitudinal variation in the life-history traits and demographic rates of a reef fish, *Centropyge bispinosa*, in the Coral Sea and Great Barrier Reef Marine Parks, Australia. *Journal of Fish Biology*, 99(5):1602-1612. doi: 10.1111/jfb.14865

109. Luter H.M., Pineda M.-C., Ricardo G., Francis D.S., Fisher R., Jones R. (2021) Assessing the risk of light reduction from natural sediment resuspension events and dredging activities in an inshore turbid reef environment. *Marine Pollution Bulletin*, 170:112536. doi: 10.1016/j.marpolbul.2021.112536
110. M. Gouezo, E. Wolanski, K. Critchell, K. Fabricius, P. Harrison, Y. Golbuu, C. Doropoulos (2021) Modelled larval supply predicts coral population recovery potential following disturbance. *Marine Ecology Progress Series*, 661:127-145. doi: 10.3354/meps13608
111. Macadam, A., Nowell, C.J., Quigley, K. (2021) Machine learning for the fast and accurate assessment of fitness in coral early life history. *Remote Sensing*, 13(16):3173. doi: 10.3390/rs13163173
112. Maire J., van Oppen M.J.H. (2021) A role for bacterial experimental evolution in coral bleaching mitigation? *Trends in Microbiology*, 30(3):217-228. doi: 10.1016/j.tim.2021.07.006
113. Maire J., Blackall L.L., van Oppen M.J.H. (2021) Intracellular bacterial symbionts in corals: Challenges and future directions. *Microorganisms*, 9(11):2209. doi: 10.3390/microorganisms9112209
114. Maire J., Blackall L.L., van Oppen M.J.H. (2021) Microbiome characterization of defensive tissues in the model anemone *Exaiptasia diaphana*. *BMC Microbiology*, 21 1:152. doi: 10.1186/s12866-021-02211-4
115. Maire J., Girvan S.K., Barkla S.E., Perez-Gonzalez A., Suggett D.J., Blackall L.L., van Oppen M.J.H. (2021) Intracellular bacteria are common and taxonomically diverse in cultured and in hospite algal endosymbionts of coral reefs. *ISME Journal*, 15(7):2028-2042. doi: 10.1038/s41396-021-00902-4
116. Marangon E., Laffy P.W., Bourne D.G., Webster N.S. (2021) Microbiome-mediated mechanisms contributing to the environmental tolerance of reef invertebrate species. *Marine Biology*, 168(6):89. doi: 10.1007/s00227-021-03893-0
117. Marhoefer S.R., Zenger K.R., Strugnell J.M., Logan M., van Oppen M.J.H., Kenkel C.D., Bay L.K. (2021) Signatures of Adaptation and Acclimatization to Reef Flat and Slope Habitats in the Coral *Pocillopora damicornis*. *Frontiers in Marine Science*, 8:704709. doi: 10.3389/fmars.2021.704709
118. Marshall D. J.D., Barneche R., White C.R. (2021) How does spawning frequency scale with body size in marine fishes? *Restoration Ecology*. doi: 10.1111/rec.13624
119. Marzoni M., Flores F., Sadoun N., Thomas M.C., Valada-Mennuni A., Kaserzon S., Mueller J.F., Negri A.P. (2021) Toxicity thresholds of nine herbicides to coral symbionts (*Symbiodiniaceae*). *Scientific Reports*, 11(1):21636. doi: 10.1038/s41598-021-00921-3
120. Mazor T., Friess D.A., Todd P.A., Huang D., Nguyen N.T.H., Saunders M.I., Runtig R.K., Lowe R.J., Cartwright P., Gilmour J.P., Lovelock C.E. (2021) Large conservation opportunities exist in >90% of tropic-subtropical coastal habitats adjacent to cities. *One Earth*, 4(7):1004-1015. doi: 10.1016/j.oneear.2021.06.010
121. Mazor T., Runtig R.K., Saunders M.I., Huang D., Friess D.A., Nguyen N.T.H., Lowe R.J., Gilmour J.P., Todd P.A., Lovelock C.E. (2021) Future-proofing conservation priorities for sea level rise in coastal urban ecosystems. *Biological Conservation*, 260:109190. doi: 10.1016/j.biocon.2021.109190
122. McCauley R.D., Meekan M.G., Parsons M.J.G. (2021) Acoustic pressure, particle motion, and induced ground motion signals from a commercial seismic survey array and potential implications for environmental monitoring. *Journal of Marine Science and Engineering*, 9(6):571. doi: 10.3390/jmse9060571
123. McLean D., Cure K., Abdul Wahab M.A., Galaiduk R., Birt M., Vaughan B., Colquhoun J., Case M., Radford B., Stowar M., Harries S., Heyward A., Miller K. (2021) A comparison of marine communities along a subsea pipeline with those in surrounding seabed areas. *Continental Shelf Research*, 219:104394. doi: 10.1016/j.csr.2021.104394
124. Meekan M.G., Speed C.W., McCauley R.D., Fisher R., Birt M.J., Currey-Randall L.M., Semmens J.M., Newman S.J., Cure K., Stowar M., Vaughan B., Parsons M.J.G. (2021) A large-scale experiment finds no evidence that a seismic survey impacts a demersal fish fauna. *Proceedings of the National Academy of Sciences of the United States of America*, 118(30):e2100869118. doi: 10.1073/pnas.2100869118
125. Meenakshisundaram A., Thomas L., Kennington W.J., Thums M., Lester E., Meekan M. (2021) Genetic markers validate photo-identification and uniqueness of spot patterns in whale sharks. *Marine Ecology Progress Series*, 668:177-183. doi: 10.3354/meps13729

126. Mejias L., Diguët J.-P., Dezan C., Campbell D., Kok J., Coppin G. (2021) Embedded computation architectures for autonomy in unmanned aircraft systems (Uas). *Sensors (Switzerland)*, 21 (4):1115. doi: 10.3390/s21041115
127. Miller M.E., Motti C.A., Menendez P., Kroon F.J. (2021) Efficacy of microplastic separation techniques on seawater samples: Testing accuracy using high-density polyethylene. *Biological Bulletin*, 240(1): 52-66. doi: 10.1086/710755
128. Muir P.R., Done T., Aguirre J.D. (2021) High regional and intrageneric variation in susceptibility to mass bleaching in Indo-Pacific coral species. *Global Ecology and Biogeography*, 30(9):1889-1898. doi: 10.1111/geb.13353
129. Murray N.J., Kennedy E.V., Álvarez-Romero J.G., Lyons M.B. (2021) Data Freshness in Ecology and Conservation. *Trends in Ecology and Evolution*, 36(6):485-487. doi: 10.1016/j.tree.2021.03.005
130. Negri A.P., Brinkman D.L., Flores F., van Dam J., Luter H.M., Thomas M.C., Fisher R., Stapp L.S., Kurtenbach P., Severati A., Parkerton T.F., Jones R. (2021) Derivation of toxicity thresholds for gas condensate oils protective of tropical species using experimental and modelling approaches. *Marine Pollution Bulletin*, 172:112899. doi: 10.1016/j.marpolbul.2021.112899
131. Neil R.C., Humphrey C., Bourne D.G., Heyward A. (2021) Co-culture with grazers can improve survival and growth of multiple coral species. *Aquaculture*, 544:737095. doi: 10.1016/j.aquaculture.2021.737095
132. Nguyen M., Wemheuer B., Laffy P.W., Webster N.S., Thomas T. (2021) Taxonomic, functional and expression analysis of viral communities associated with marine sponges. *PeerJ*, 9:10715. doi: 10.7717/peerj.10715
133. Nordborg F.M., Brinkman D.L., Ricardo G.F., Agustí S., Negri A.P. (2021) Comparative sensitivity of the early life stages of a coral to heavy fuel oil and UV radiation. *Science of the Total Environment*, 781:146676. doi: 10.1016/j.scitotenv.2021.146676
134. Nunes L.T., Barneche D.R., Lastrucci N.S., Fraga A.A., Nunes J.A.C.C., Ferreira C.E.L., Floeter S.R. (2021) Predicting the effects of body size, temperature and diet on animal feeding rates. *Functional Ecology*, 35(10a): 2229-2240. doi: 10.1111/1365-2435.13872
135. O'Brien P.A., Andreakis N., Tan S., Miller D.J., Webster N.S., Zhang G., Bourne D.G. (2021) Testing cophylogeny between coral reef invertebrates and their bacterial and archaeal symbionts. *Molecular Ecology*, 30(15):3768-3782. doi: 10.1111/mec.16006
136. Oliver E.C.J., Benthuyzen J.A., Darmaraki S., Donat M.G., Hobday A.J., Holbrook N.J., Schlegel R.W., Sen Gupta A. (2021) Marine Heatwaves. *Annual Review of Marine Science*, 13:313 – 342. doi: 10.1146/annurev-marine-032720-095144
137. Ortiz J.C., Pears R.J., Beeden R., Dryden J., Wolff N.H., Gomez Cabrera M.D.C., Mumby P.J. (2021) Important ecosystem function, low redundancy and high vulnerability: The trifacta argument for protecting the Great Barrier Reef's tabular *Acropora*. *Conservation Letters*, 14(5):e12817. doi: 10.1111/conl.12817
138. Ostwald A., Tulloch V.J.D., Kyne P.M., Bax N.J., Dunstan P.K., Ferreira L.C., Thums M., Upston J., Adams V.M. (2021) Mapping threats to species: Method matters. *Marine Policy*, 131:104614 . doi: 10.1016/j.marpol.2021.104614
139. Parsons M.J.G., Erbe C., Meekan M.G., Parsons S.K. (2021) A review and meta-analysis of underwater noise radiated by small (<25 m length) vessels. *Journal of Marine Science and Engineering*, 9(8):827. doi: 10.3390/jmse9080827
140. Peixoto R.S., Sweet M., Villela H.D.M., Cardoso P., Thomas T., Voolstra C.R., Høj L., Bourne D.G. (2021) Coral Probiotics: Premise, Promise, Prospects. *Annual Review of Animal Biosciences*, 9:265-288. doi: 10.1146/annurev-animal-090120-115444
141. Phillips H.E., Tandon A., Furue R., Hood R., Ummenhofer C.C., Benthuyzen J.A., Menezes V., Hu S., Webber B., Sanchez-Franks A., Cherian D., Shroyer E., Feng M., Wijesekera H., Chatterjee A., Yu L., Hermes J., Murtugudde R., Tozuka T., Su D., Singh A., Centurioni L., Prakash S., Wiggert J. (2021) Progress in understanding of Indian Ocean circulation, variability, air-sea exchange, and impacts on biogeochemistry. *Ocean Science*, 17(6):1677- 1751. doi: 10.5194/os-17-1677-2021

142. Pie M.R., Divieso R., Caron F.S., Siqueira A.C., Barneche D.R., Luiz O.J. (2021) The evolution of latitudinal ranges in reef-associated fishes: Heritability, limits and inverse Rapoport's rule. *Journal of Biogeography*, 48(9):2121-2132. doi: 10.1111/jbi.14150
143. Plaisance L., Matterson K., Fabricius K., Drovetski S., Meyer C., Knowlton N. (2021) Effects of low pH on the coral reef cryptic invertebrate communities near CO₂ vents in Papua New Guinea. *PLoS ONE*, 16(12):e0258725. doi: 10.1371/journal.pone.0258725
144. Pomeroy A.W.M., Storlazzi C.D., Rosenberger K.J., Lowe R.J., Hansen J.E., Buckley M.L. (2021) The Contribution of Currents, Sea-Swell Waves, and Infragravity Waves to Suspended-Sediment Transport Across a Coral Reef-Lagoon System. *Journal of Geophysical Research: Oceans*, 126(3):e2020JC017010. doi: 10.1029/2020JC017010
145. Prada F., Brizi L., Franzellitti S., Mengoli S., Fermani S., Polishchuk I., Baraldi N., Ricci F., Palazzo Q., Caroselli E., Pokroy B., Giorgini L., Dubinsky Z., Fantazzini P., Falini G., Goffredo S., Fabricius K.E. (2021) Coral micro- and macro-morphological skeletal properties in response to life-long acclimatization at CO₂ vents in Papua New Guinea. *Scientific Reports*, 11(1):19927. doi: 10.1038/s41598-021-98976-9
146. Pratchett M.S., Caballes C.F., Cvitanovic C., Raymundo M.L., Babcock R.C., Bonin M.C., Bozec Y.-M., Burn D., Byrne M., Castro-Sanguino C., Chen C.C.M., Condie S.A., Cowan Z.-L., Deaker D.J., Desbiens A., Devantier L.M., Doherty P.J., Doll P.C., Doyle J.R., Dworjanyn S.A., Fabricius K.E., Haywood M.D.E., Hock K., Hoggett A.K., Høj L., Keesing J.K., Kenchington R.A., Lang B.J., Ling S.D., Matthews S.A., McCallum H.I., Mellin C., Mos B., Motti C.A., Mumby P.J., Stump R.J.W., Uthicke S., Vail L., Wolfe K., Wilson S.K. (2021) Knowledge Gaps in the Biology, Ecology, and Management of the Pacific Crown-of-Thorns Sea Star *Acanthaster* sp. on Australia's Great Barrier Reef. *Biological Bulletin*, 241(3):330-346. doi: 10.1086/717026
147. Price B.A., Harvey E.S., Mangubhai S., Saunders B.J., Puotinen M., Goetze J.S. (2021) Responses of benthic habitat and fish to severe tropical cyclone Winston in Fiji. *Coral Reefs*, 40(3):807- 819. doi: 10.1007/s00338-021-02086-x
148. Queiroz N., Humphries N.E., Couto A., Vedor M., da Costa I., Sequeira A.M.M., Mucientes G., Santos A.M., Abascal F.J., Abercrombie D.L., Abrantes K., Acuña-Marrero D., Afonso A.S., Afonso P., Anders D., Araujo G., Arauz R., Bach P., Barnett A., Bernal D., Berumen M.L., Lion S.B., Bezerra N.P.A., Blaison A.V., Block B.A., Bond M.E., Bonfil R., Braun C.D., Brooks E.J., Brooks A., Brown J., Byrne M.E., Campana S.E., Carlisle A.B., Chapman D.D., Chapple T.K., Chisholm J., Clarke C.R., Clua E.G., Cochran J.E.M., Crochelet E.C., Dagorn L., Daly R., Cortés D.D., Doyle T.K., Drew M., Duffy C.A.J., Erikson T., Espinoza E., Ferreira L.C., Ferretti F., Filmalter J.D., Fischer G.C., Fitzpatrick R., Fontes J., Forget F., Fowler M., Francis M.P., Gallagher A.J., Gennari E., Goldsworthy S.D., Gollock M.J., Green J.R., Gustafson J.A., Guttridge T.L., Guzman H.M., Hammerschlag N., Harman L., Hazin F.H.V., Heard M., Hearn A.R., Holdsworth J.C., Holmes B.J., Howey L.A., Hoyos M., Hueter R.E., Hussey N.E., Huveneers C., Irion D.T., Jacoby D.M.P., Jewell O.J.D., Johnson R., Jordan L.K.B., Joyce W., Keating Daly C.A., Ketchum J.T., Klimley A.P., Kock A.A., Koen P., Ladino F., Lana F.O., Lea J.S.E., Llewellyn F., Lyon W.S., MacDonnell A., Macena B.C.L., Marshall H., McAllister J.D., Meyer M.A., Morris J.J., Nelson E.R., Papastamatiou Y.P., Peñaherrera-Palma C., Pierce S.J., Poisson F., Quintero L.M., Richardson A.J., Rogers P.J., Rohner C.A., Rowat D.R.L., Samoily M., Semmens J.M., Sheaves M., Shillinger G., Shivji M., Singh S., Skomal G.B., Smale M.J., Snyders L.B., Soler G., Soria M., Stehfest K.M., Thorrold S.R., Tolotti M.T., Towner A., Travassos P., Tyminski J.P., Vandeperre F., Vaudo J.J., Watanabe Y.Y., Weber S.B., Wetherbee B.M., White T.D., Williams S., Zárata P.M., Harcourt R., Hays G.C., Meekan M.G., Thums M., Irigoien X., Eguiluz V.M., Duarte C.M., Sousa L.L., Simpson S.J., Southall E.J., Sims D.W. (2021) Reply to: Caution over the use of ecological big data for conservation. *Nature*, 595(7866):E20-E28. doi: 10.1038/s41586-021-03464-9
149. Queiroz N., Humphries N.E., Couto A., Vedor M., da Costa I., Sequeira A.M.M., Mucientes G., Santos A.M., Abascal F.J., Abercrombie D.L., Abrantes K., Acuña-Marrero D., Afonso A.S., Afonso P., Anders D., Araujo G., Arauz R., Bach P., Barnett A., Bernal D., Berumen M.L., Lion S.B., Bezerra N.P.A., Blaison A.V., Block B.A., Bond M.E., Bonfil R., Bradford R.W., Braun C.D., Brooks E.J., Brooks A., Brown J., Bruce B.D., Byrne M.E., Campana S.E., Carlisle A.B., Chapman D.D., Chapple T.K., Chisholm J., Clarke C.R., Clua E.G., Cochran J.E.M., Crochelet E.C., Dagorn L., Daly R., Cortés D.D., Doyle T.K., Drew M., Duffy C.A.J., Erikson T., Espinoza E., Ferreira L.C., Ferretti F., Filmalter J.D., Fischer G.C., Fitzpatrick R., Fontes J., Forget F., Fowler M., Francis

- M.P., Gallagher A.J., Gennari E., Goldsworthy S.D., Gollock M.J., Green J.R., Gustafson J.A., Guttridge T.L., Guzman H.M., Hammerschlag N., Harman L., Hazin F.H.V., Heard M., Hearn A.R., Holdsworth J.C., Holmes B.J., Howey L.A., Hoyos M., Hueter R.E., Hussey N.E., Huveneers C., Irion D.T., Jacoby D.M.P., Jewell O.J.D., Johnson R., Jordan L.K.B., Joyce W., Keating Daly C.A., Ketchum J.T., Klimley A.P., Kock A.A., Koen P., Ladino F., Lana F.O., Lea J.S.E., Llewellyn F., Lyon W.S., MacDonnell A., Macena B.C.L., Marshall H., McAllister J.D., Meyer M.A., Morris J.J., Nelson E.R., Papastamatiou Y.P., Peñaherrera-Palma C., Pierce S.J., Poisson F., Quintero L.M., Richardson A.J., Rogers P.J., Rohner C.A., Rowat D.R.L., Samoily M., Semmens J.M., Sheaves M., Shillinger G., Shivji M., Singh S., Skomal G.B., Smale M.J., Snyders L.B., Soler G., Soria M., Stehfest K.M., Thorrold S.R., Tolotti M.T., Towner A., Travassos P., Tyminski J.P., Vandeperre F., Vaudo J.J., Watanabe Y.Y., Weber S.B., Wetherbee B.M., White T.D., Williams S., Zárata P.M., Harcourt R., Hays G.C., Meekan M.G., Thums M., Irigoien X., Eguiluz V.M., Duarte C.M., Sousa L.L., Simpson S.J., Southall E.J., Sims D.W. (2021) Reply to: Shark mortality cannot be assessed by fishery overlap alone. *Nature*, 595(7866):E8-E16. doi: 10.1038/s41586-021-03397-3
150. Quigley K.M., Alvarez Roa C., Beltran V.H., Leggat B., Willis B.L. (2021) Experimental evolution of the coral algal endosymbiont, *Cladocopium* goreau: lessons learnt across a decade of stress experiments to enhance coral heat tolerance. *Restoration Ecology*, 29(3):e13342. doi: 10.1111/rec.13342
 151. Quigley K.M., Marzoni M., Ramsby B., Abrego D., Milton G., van Oppen M.J.H., Bay L.K. (2021) Variability in Fitness Trade-Offs Amongst Coral Juveniles With Mixed Genetic Backgrounds Held in the Wild. *Frontiers in Marine Science*, 8:636177. doi: 10.3389/fmars.2021.636177
 152. Quimbayo J.P., Mendes T.C., Barneche D.R., Dias M.S., Grutter A.S., Furtado M., Leprieur F., Pellissier L., Mazzei R., Narvaez P., Sasal P., Soares M.C., Parravicini V., Sazima I., Kulbicki M. (2021) Patterns of taxonomic and functional diversity in the global cleaner reef fish fauna. *Journal of Biogeography*, 48(10):2469-2485. doi: 10.1111/jbi.14214
 153. Randall C.J., Giuliano C., Heyward A.J., Negri A.P. (2021) Enhancing Coral Survival on Deployment Devices With Microrefugia. *Frontiers in Marine Science*, 8:662263. doi: 10.3389/fmars.2021.662263
 154. Randall C.J., Giuliano C., Page C.A. (2021) No bundles beyond this point: The coral sterile zone. *Bulletin of Marine Science*, 97(1):75-76. doi: 10.5343/BMS.2020.0032
 155. Reed E.M., Taylor B.M. (2021) Life history of two data-poor but commercially valuable tropical reef fishes, *Parupeneus barberinus* and *Mulloidichthys flavolineatus*, from the Saipan fishery, Northern Mariana Islands. *Marine and Freshwater Research*, 72(3):383-397. doi: 10.1071/MF20049
 156. Reed E.V., Thompson D.M., Cole J.E., Lough J.M., Cantin N.E., Cheung A.H., Tudhope A., Vetter L., Jimenez G., Edwards R.L. (2021) Impacts of Coral Growth on Geochemistry: Lessons From the Galápagos Islands. *Paleoceanography and Paleoclimatology*, 36(4):e2020PA004051. doi: 10.1029/2020PA004051
 157. Ricardo G., Kiff H., Flores F. (2021) Rapid regeneration of *Acropora millepora* coral recruits after physical damage to the primary polyp. *Journal of Experimental Marine Biology and Ecology*, 542-543:151591. doi: 10.1016/j.jembe.2021.151591
 158. Ricardo G.F., Harper C.E., Negri A.P., Luter H.M., Abdul Wahab M.A., Jones R.J. (2021) Impacts of water quality on *Acropora* coral settlement: The relative importance of substrate quality and light. *Science of the Total Environment*, 777:146079. doi: 10.1016/j.scitotenv.2021.146079
 159. Robbins S.J., Song W., Engelberts J.P., Glasl B., Slaby B.M., Boyd J., Marangon E., Botté E.S., Laffy P., Thomas T., Webster N.S. (2021) A genomic view of the microbiome of coral reef demosponges. *ISME Journal*, 15(6):1641-1654. doi: 10.1038/s41396-020-00876-9
 160. Robertson, A.I. (2021) Leaf-litter consumption slows crab growth but transforms mangrove food chains. *Marine Ecology Progress Series*, 667:83-98. doi: 10.3354/meps13709
 161. Roelfsema C., Kovacs E.M., Vercelloni J., Markey K., Rodriguez-Ramirez A., Lopez-Marcano S., Gonzalez-Rivero M., Hoegh-Guldberg O., Phinn S.R. (2021) Fine-scale time series surveys reveal new insights into spatio-temporal trends in coral cover (2002–2018), of a coral reef on the Southern Great Barrier Reef. *Coral Reefs*, 40(4):1055-1067. doi: 10.1007/s00338-021-02104-y
 162. Roelfsema C.M., Lyons M.B., Castro-Sanguino C., Kovacs E.M., Callaghan D., Wettle M., Markey K., Borrego-Acevedo R., Tudman P., Roe M., Kennedy E.V., Gonzalez-Rivero M., Murray N., Phinn S.R. (2021) How much

- shallow coral habitat is there on the great barrier reef? *Remote Sensing*, 13(21):4343. doi: 10.3390/rs13214343
163. Rose N.H., Bay R.A., Morikawa M.K., Thomas L., Sheets E.A., Palumbi S.R. (2021) Genomic analysis of distinct bleaching tolerances among cryptic coral species. *Proceedings of the Royal Society B: Biological Sciences*, 288(1960):20210678. doi: 10.1098/rspb.2021.0678
 164. Saenz-Agudelo P., Harrison H.B. (2021) Stochastic nature of larval dispersal at sea. *Molecular ecology*, 30(10):2197-2198. doi: 10.1111/mec.15927
 165. Santana M.F.M., Dawson A.L., Motti C.A., van Herwerden L., Lefevre C., Kroon F.J. (2021) Ingestion and Depuration of Microplastics by a Planktivorous Coral Reef Fish, *Pomacentrus amboinensis*. *Frontiers in Environmental Science*, 9:641135. doi: 10.3389/fenvs.2021.641135
 166. Schläppy M.-L., Robinson L.M., Camilieri-Asch V., Miller K. (2021) Trash or Treasure? Considerations for Future Ecological Research to Inform Oil and Gas Decommissioning. *Frontiers in Marine Science*, 8:642539. doi: 10.3389/fmars.2021.642539
 167. Schlegel R.W., Darmaraki S., Benthuyzen J.A., Filbee-Dexter K., Oliver E.C.J. (2021) Marine cold-spells. *Progress in Oceanography*, 198: 102684. doi: 10.1016/j.pocean.2021.102684
 168. Schönberg C.H.L. (2021) No taxonomy needed: Sponge functional morphologies inform about environmental conditions. *Ecological Indicators*, 129:107806. doi: 10.1016/j.ecolind.2021.107806
 169. Shen Y., Arablouei R., De Hoog F., Hao X., Malan J., Sharp J., Shouri S., D. Clark T., Lefevre C., Kroon F., Severati A., Kusy B. (2021) In-situ Fish Heart Rate Estimation and Feeding Event Detection Using an Implantable Biologger. *IEEE Transactions on Mobile Computing*. doi: 10.1109/TMC.2021.3086496
 170. Shimada T., Duarte C.M., Al-Suwailem A.M., Tanabe L.K., Meekan M.G. (2021) Satellite Tracking Reveals Nesting Patterns, Site Fidelity, and Potential Impacts of Warming on Major Green Turtle Rookeries in the Red Sea. *Frontiers in Marine Science*, 8:633814. doi: 10.3389/fmars.2021.633814
 171. Shimada T., Meekan M.G., Baldwin R., Al-Suwailem A.M., Clarke C., Santillan A.S., Duarte C.M. (2021) Distribution and temporal trends in the abundance of nesting sea turtles in the Red Sea. *Biological Conservation*, 261:109235. doi: 10.1016/j.biocon.2021.109235
 172. Shimada T., Thums M., Hamann M., Limpus C.J., Hays G.C., FitzSimmons N.N., Wildermann N.E., Duarte C.M., Meekan M.G. (2021) Optimising sample sizes for animal distribution analysis using tracking data. *Methods in Ecology and Evolution*, 12(2):288-297. doi: 10.1111/2041-210X.13506
 173. Shine R., Udyawer V., Goiran, C. (2021) Antipredator tactics: a kin-selection benefit for defensive spines in coral catfish? *Oikos*, 130(2):240-247. doi: 10.1111/oik.07838
 174. Simpfendorfer C.A., Heupel M.R., Kendal D. (2021) Complex Human-Shark Conflicts Confound Conservation Action. *Frontiers in Conservation Science*, 2(35):1-8. doi: 10.3389/fcosc.2021.692767
 175. Skirving W., Pomeroy A., McCall R., Marra J., Storlazzi C. (2021) Editorial: Flooding on Coral Reef-Lined Coasts: Current State of Knowledge and Future Challenges. *Frontiers in Marine Science*, 7:635240. doi: 10.3389/fmars.2020.635240
 176. Smith H.A., Brown D.A., Arjunwadkar C.V., Fulton S.E., Whitman T., Hermanto B., Mastroianni E., Mattocks N., Smith A.K., Harrison P.L., Boström-Einarsson L., McLeod I.M., Bourne D.G. (2021) Removal of macroalgae from degraded reefs enhances coral recruitment. *Restoration Ecology*, e13624. doi: 10.1111/rec.13624
 177. Somaweera R., Udyawer V., Guinea M.L., Ceccarelli D.M., Clarke R.H., Glover M., Hourston M., Keesing J., Rasmussen A.R., Sanders K., Shine R., Thomson D.P., Webber B.L. (2021) Pinpointing Drivers of Extirpation in Sea Snakes: A Synthesis of Evidence From Ashmore Reef. *Frontiers in Marine Science*, 8:658756. doi: 10.3389/fmars.2021.658756
 178. Stoeckl N., Condie S., Anthony K. (2021) Assessing changes to ecosystem service values at large geographic scale: A case study for Australia's Great Barrier Reef *Ecosystem Services*, 51:101352. doi: 10.1016/j.ecoser.2021.101352
 179. Strehlow B.W., Pineda M.-C., Kenkel C.D., Laffy P., Duckworth A., Renton M., Clode P.L., Webster N.S. (2021) Novel reference transcriptomes for the sponges *Carteriospongia foliascens* and *Cliona orientalis* and associated algal symbiont *Gerakladium endoclonum*. *Coral Reefs*, 40:9-13. doi: 10.1007/s00338-020-02028-z

180. Sweet M., Vilella H., Keller-Costa T., Costa R., Romano S., Bourne D.G., Cárdenas A., Huggett M.J., Kerwin A.H., Kuek F., Medina M., Meyer J.L., Müller M., Joseph Pollock F., Rappé M.S., Sere M., Sharp K.H., Woolstra C.R., Zaccardi N., Ziegler M., Peixoto R. (2021) Insights into the cultured bacterial fraction of corals. *mSystems*, 6(3):e01249-20. doi: 10.1128/mSystems.01249-20
181. Taillebois L., Davenport D., Barton D.P., Crook D.A., Saunders T., Hearnden M., Saunders R.J., Newman S.J., Travers M.J., Dudgeon C.L., Maher S.L., Ovenden J.R. (2021) Integrated analyses of SNP-genotype and environmental data in a continuously distributed snapper species (*Lutjanus johnii*, Bloch, 1792) reveals a mosaic of populations and a challenge for sustainable management. *ICES Journal of Marine Science*, 78(9):3212-3229. doi: 10.1093/icesjms/fsab187
182. Taylor B.M., Wakefield C.B., Newman S.J., Chinkin M., Meekan M.G. (2021) Unprecedented longevity of unharvested shallow-water snappers in the Indian Ocean. *Coral Reefs*, 40(1):15-19. doi: 10.1007/s00338-020-02032-3
183. Thompson C.A., Hoey A.S., Montanari S.R., Messmer V., Doll P.C., Pratchett M.S. (2021) Territoriality and condition of chevron butterflyfish (*Chaetodon trifascialis*) with varying coral cover on the great barrier reef, Australia. *Environmental Biology of Fishes*, 104(1):53-69. doi: 10.1007/s10641-021-01055-1
184. Thomson D.P., Cresswell A.K., Doropoulos C., Haywood M.D.E., Orr M., Hoey A.S. (2021) Hidden giants: The story of *bolbometopon muricatum* at ningaloo reef. *Fishes*, 6(4):73. doi: 10.3390/fishes6040073
185. Thomson P.G., Pillans R., Jaine F.R.A., Harcourt R.G., Taylor M.D., Pattiaratchi C.B., McLean D.L. (2021) Acoustic Telemetry Around Western Australia's Oil and Gas Infrastructure Helps Detect the Presence of an Elusive and Endangered Migratory Giant. *Frontiers in Marine Science*, 8:631449. doi: 10.3389/fmars.2021.631449
186. Todd V.L.G., Susini I., Williamson L.D., Todd I.B., Mclean D.L., Macreadie P.I. (2021) Characterizing the second wave of fish and invertebrate colonization of an offshore petroleum platform. *ICES Journal of Marine Science*, 78(3):1131-1145. doi: 10.1093/icesjms/fsaa245
187. Tol S.J., Harrison M., Groom R., Gilbert J., Blair D., Coles R., Congdon B.C. (2021) Using DNA to distinguish between faeces of *Dugong dugon* and *Chelonia mydas*: non-invasive sampling for IUCN-listed marine megafauna, *Conservation Genetics Resources*, 13(2):115-117. doi: 10.1007/s12686-020-01187-z
188. Udyawer V., Goiran C., Shine R. (2021) Peaceful coexistence between people and deadly wildlife: Why are recreational users of the ocean so rarely bitten by sea snakes? *People and Nature*, 3(2):335-346. doi: 10.1002/pan3.10190
189. Uthicke S., Patel F., Petrik C., Watson S.-A., Karelitz S.E., Lamare M.D. (2021) Cross-generational response of a tropical sea urchin to global change and a selection event in a 43-month mesocosm study. *Global Change Biology*, 27(15):3448- 3462. doi: 10.1111/gcb.15657
190. Uthicke S., Pratchett M.S., Messmer V., Harrison H. (2021) Limited genetic signal from potential cloning and selfing within wild populations of coral-eating crown-of-thorns seastars (*Acanthaster cf. solaris*). *Coral Reefs*, 40(1):131-138. doi: 10.1007/s00338-020-02022-5
191. Velu C., Karthikeyan O.P., Brinkman D.L., Cirés S., Heimann K. (2021) Biomass pre-treatments of the N₂-fixing cyanobacterium *Tolypothrix* for co-production of methane. *Chemosphere*, 283:131246. doi: 10.1016/j.chemosphere.2021.131246
192. Woolstra C.R., Quigley K.M., Davies S.W., Parkinson J.E., Peixoto R.S., Aranda M., Baker A.C., Barno A.R., Barshis D.J., Benzoni F., Bonito V., Bourne D.G., Buitrago-López C., Bridge T.C.L., Chan C.X., Combosch D.J., Craggs J., Frommlet J.C., Herrera S., Quattrini A.M., Röthig T., Reimer J.D., Rubio-Portillo E., Suggett D.J., Vilella H., Ziegler M., Sweet M. (2021) Consensus Guidelines for Advancing Coral Holobiont Genome and Specimen Voucher Deposition. *Frontiers in Marine Science*, 8:701784. doi: 10.3389/fmars.2021.701784
193. Woolstra C.R., Suggett D.J., Peixoto R.S., Parkinson J.E., Quigley K.M., Silveira C.B., Sweet M., Muller E.M., Barshis D.J., Bourne D.G., Aranda M. (2021) Extending the natural adaptive capacity of coral holobionts. *Nature Reviews Earth and Environment*, 2(11):747-762. doi: 10.1038/s43017-021-00214-3
194. Warne D.J., Crossman K.A., Jin W., Mengersen K., Osborne K., Simpson M.J., Thompson A.A., Wu P., Ortiz J.C. (2021) Identification of two-phase recovery for interpretation of coral reef monitoring data. *Journal of Applied Ecology*, 59(1): 153-164. doi: 10.1111/1365-2664.14039

195. Westlake E.L., Bessey C., Fisher R., Thomson D.P., Haywood M.D.E. (2021) Environmental factors and predator abundance predict the distribution and occurrence of two sympatric urchin species at Ningaloo Reef, Western Australia. *Marine and Freshwater Research*, 72(12):1711-1721. doi: 10.1071/MF21091
196. Whalan S., Puotinen M., Wakeford M., Parnum I., Miller K. (2021) Distribution of the Pearl Oyster *Pinctada maxima* off Eighty Mile Beach, Western Australia. *Frontiers in Marine Science*, 8:679749. doi: 10.3389/fmars.2021.679749
197. Wilson P., Thums M., Pattiaratchi C., Whiting S., Meekan M., Pendoley K. (2021) Nearshore wave characteristics as cues for swimming orientation in flatback turtle hatchlings. *Journal of Experimental Marine Biology and Ecology*, 535:151475. doi: 10.1016/j.jembe.2020.151475
198. Wu Y., Fallon S.J., Cantin N.E., Lough J.M. (2021) Assessing multiproxy approaches (Sr/Ca, U/Ca, Li/Mg, and B/Mg) to reconstruct sea surface temperature from coral skeletons throughout the Great Barrier Reef. *Science of the Total Environment*, 786:147393. doi: 10.1016/j.scitotenv.2021.147393
199. Wu Y., Fallon S.J., Cantin N.E., Lough J.M. (2021) Surface Ocean Radiocarbon From A *Porites* Coral Record In The Great Barrier Reef: 1945-2017. *Radiocarbon*, 63(4):1193- 1203. doi: 10.1017/RDC.2020.141
200. Zampatti B.P., Leigh S.J., Wilson P.J., Crook D.A., Gillanders B.M., Maas R., Macdonald J.I., Woodhead J. (2021) Otolith chemistry delineates the influence of natal origin, dispersal and flow on the population dynamics of golden perch (*Macquaria ambigua*) in a regulated river. *Marine and Freshwater Research*, 72(10):1484-1495. doi: 10.1071/MF20280
201. Zinke J., Browning S.A., Hoell A., Goodwin I.D. (2021) The West Pacific Gradient tracks ENSO and zonal Pacific Sea surface temperature gradient during the last Millennium. *Scientific Reports*, 11(1):20395. doi: 10.1038/s41598-021-99738-3

Author Corrections:

1. Kennedy E.V., Roelfsema C.M., Lyons M.B., Kovacs E.M., Borrego-Acevedo R., Roe M., Phinn S.R., Larsen K., Murray N.J., Yuwono D., Wolff J., Tudman P. (2021) Author Correction: Reef Cover, a coral reef classification for global habitat mapping from remote. *Scientific Data*, 8(1):233. doi: 10.1038/s41597-021-01011-9
2. Kulk G., Platt T., Dingle J., Jackson T., Jönsson B.F., Bouman H.A., Babin M., Brewin R.J.W., Doblin M., Estrada M., Figueiras F.G., Furuya K., González-Benítez N., Gudfinnsson H.G., Gudmundsson K., Huang B., Isada T., Kovač Ž., Lutz V.A., Marañón E., Raman M., Richardson K., Rozema P.D., van de Poll W.H., Segura V., Tilstone G.H., Uitz J., van Dongen-Vogels V., Yoshikawa T., Sathyendranath S. (2021) Correction: Kulk et al. Primary production, an index of climate change in the ocean: Satellite-based estimates over two. *Remote Sensing*, 13(17):3462. doi: 10.3390/rs13173462
3. Maire J., Girvan S.K., Barkla S.E., Perez-Gonzalez A., Suggett D.J., Blackall L.L., van Oppen M.J.H. (2021) Correction to: Intracellular bacteria are common and taxonomically diverse in cultured and in hospite algal endosymbionts of coral reefs. *ISME Journal*, 15(7):2168- 2170, doi: 10.1038/s41396-021-00970-6
4. Uthicke S., Lamare M., Doyle J.R. (2021) Correction to: eDNA detection of corallivorous seastar (*Acanthaster cf. solaris*) outbreaks on the Great Barrier Reef using digital droplet PCR. *Coral Reefs*, 40(5):1487-1488. doi: 10.1007/s00338-021-02165-z

2021 Books and Book Chapters

1. P.M. Kyne, M.R. Heupel, W.T.White, C. Simpfendorfer (2021) The Action Plan for Australian Sharks & Rays 2021. National Environmental Science Program, Marine Biodiversity Hub, Hobart.
2. Wolfe K., Anthony K., Babcock R., Bay L., Bourne, D., Burrows D., Byrne, M. Deaker D., Diaz-Pulido G., Frade P., Gonzalez-Rivero M., Hoey A., Hoogenboom M., McCormick M., Ortiz J., Razak T., Richardson, A. Roff G., Sheppard-Brennand, H. Stella, J. Thompson A., Watson S., Webster N., Audas D., Beeden R., Carver J., Cowlshaw M., Dyer M., Groves P., Horne D., Thiault L., Vains J., Wachenfeld D., Weekers D., Williams G., Mumby P., Hawkins S., Allcock A.L., Bates A., Firth L., Smith I., Swearer S., Evans A., Todd P., Russell B., McQuaid C. (2021) Priority Species To Support The Functional Integrity Of Coral Reefs in Hawkins S.J., Allcock A.L., Bates A.E., Evans A. J., Firth L.B., McQuaid C.D., Russell B.D., Smith I.P., Swearer S.E., Todd P.A. (ed) *Oceanography and Marine Biology: An Annual Review* (1st ed.). CRC Press, London, 179 – 318. doi: 10.1201/9780429351495-5