Supplementary Table S2 List of articles with available temperature data.

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| Title | First Author | Year of Publication | DOI |
| The Yellow Coral Dendrophyllia cornigera in a Warming Ocean | Castellan, Giorgio | 2019 | 10.3389/fmars.2019.00692 |
| Mass coral bleaching of P. versipora in Sydney Harbour driven by the 2015â€“2016 heatwave | Goyen, Samantha | 2019 | 10.1007/s00338-019-01797-6 |
| Heat challenge elicits stronger physiological and gene expression responses than starvation in symbiotic Oculina arbuscula | Rivera, Hanny | 2023 | 10.1093/jhered/esac068 |
| Response of a temperate coral to temperature stress: A comparison of populations across sites | Johnston, Nicole | 2023 | 10.1016/j.jembe.2022.151863 |
| Characteristics of The Bleached Microbiome of The Generalist Coral Pocillopora damicornis from Two Distinct Reef Habitats | Bergman, Jessica | 2023 | 10.1093/iob/obad012 |
| Simplification, not "tropicalization", of temperate marine ecosystems under ocean warming and acidification | Agostini, Sylvain | 2021 | 10.1111/gcb.15749 |
| Transient amplification enhances the persistence of tropicalising coral assemblages in marginal high-latitude environments | Cant, James | 2022 | 10.1111/ecog.06156 |
| The third global coral bleaching event on the marginal coral reefs of the southwestern indian ocean and factors that contribute to their resistance and resilience | Porter, Sean | 2021 | 10.3390/d13100464 |
| Recruitment of the subtropical coral Alveopora japonica in the temperate waters of Jeju Island, South Korea | Denis, Vianney | 2015 | 10.5343/bms.2014.1032 |
| Unique combinations of coral host and algal symbiont genotypes reflect intraspecific variation in heat stress responses among colonies of the reef-building coral, Montipora digitata | Kavousi, Javid | 2020 | 10.1007/s00227-019-3632-z |
| Different responses of massive and branching corals to a major heatwave at the largest and richest reef complex in South Atlantic | Ferreira, Lucas Cabral Lage | 2021 | 10.1007/s00227-021-03863-6 |
| Thermal stress-related spatiotemporal variations in high-latitude coral reef benthic communities | Jones, Nicolas | 2020 | 10.1007/s00338-020-01994-8 |
| Characterizing environmental stress responses of aposymbiotic Astrangia poculata to divergent thermal challenges | Wuitchik, Daniel | 2021 | 10.1111/mec.16108 |
| Temperature and symbiosis affect lesion recovery in experimentally wounded, facultatively symbiotic temperate corals | Burmester, Elizabeth | 2017 | 10.3354/meps12114 |
| A simple temperature-based model predicts the upper latitudinal limit of the temperate coral Astrangia poculata | Dimond, James | 2013 | 10.1007/s00338-012-0983-z |
| Unraveling heterogeneity of coral microbiome assemblages in tropical and subtropical corals in the south China sea | Gong, Sanqiang | 2020 | 10.3390/microorganisms8040604 |
| Mechanisms and seasonal drivers of calcification in the temperate coral turbinaria reniformis at its latitudinal limits | Ross, Claire | 2018 | 10.1098/rspb.2018.0215 |
| Coral communities on marginal high-latitude reefs in west australian marine parks | Ross, Claire | 2021 | 10.3390/d13110554 |
| Oceanic patterns of thermal stress and coral community degradation on the island of Mauritius | McClanahan, Tim | 2021 | 10.1007/s00338-020-02015-4 |
| Refugia under threat: Mass bleaching of coral assemblages in high-latitude eastern Australia | Kim, Sun | 2019 | 10.1111/gcb.14772 |
| Reef on the edge: resilience failure of marginal patch coral reefs in Eastern Arabian Sea under recurrent coral bleaching, coral diseases, and local stressors | De, Kalyan | 2023 | 10.1007/s11356-022-22651-3 |
| Marine heatwaves impair the thermal refugia potential of marginal reefs in the northern South China Sea | Mo, Shaohua | 2022 | 10.1016/j.scitotenv.2022.154100 |
| Increasing coral calcification in Orbicella faveolata and Pseudodiploria strigosa at Flower Garden Banks, Gulf of Mexico | Manzello, Derek | 2021 | 10.1007/s00338-021-02108-8 |
| Genetic Diversity and Structure of Tropical Porites lutea Populations Highlight Their High Adaptive Potential to Environmental Changes in the South China Sea | Luo, Yanqiu | 2022 | 10.3389/fmars.2022.791149 |
| Physiological resilience of a temperate soft coral to ocean warming and acidification | Lopes, Ana | 2018 | 10.1007/s12192-018-0919-9 |
| Elevated temperature enhances normal early embryonic development in the coral Platygyra acuta under low salinity conditions | Chui, Apple Pui Yi | 2015 | 10.1007/s00338-014-1247-x |
| Subtropical thermal variation supports persistence of corals but limits productivity of coral reefs | McIlroy, Shelby | 2019 | 10.1098/rspb.2019.0882 |
| Lower cold tolerance of tropical Porites lutea is possibly detrimental to its migration to relatively high latitude refuges in the South China Sea | Huang, Wen | 2022 | 10.1111/mec.16662 |
| Seasonal drivers of productivity and calcification in the coral Platygyra carnosa in a subtropical reef | Dellisanti, Walter | 2023 | 10.3389/fmars.2023.994591 |
| Depth moderates loss of marine foundation species after an extreme marine heatwave: could deep temperate reefs act as a refuge? | Giraldo-Ospina, Ana | 2020 | 10.1098/rspb.2020.0709 |
| What's the key for success? Translocation, growth and thermal stress mitigation in the Mediterranean coral Cladocora caespitosa (Linnaeus, 1767) | Roveta, Camilla | 2023 | 10.3389/fmars.2023.1199048 |
| Dispersal, genetic variation, and symbiont interaction network of heat-tolerant endosymbiont Durusdinium trenchii: Insights into the adaptive potential of coral to climate change | Chen, Biao | 2020 | 10.1016/j.scitotenv.2020.138026 |
| Bleaching Susceptibility and Resistance of Octocorals and Anemones at the Worldâ€™s Southern-Most Coral Reef | Steinberg, Rosemary | 2022 | 10.3389/fphys.2022.804193 |
| Regional and local environmental conditions do not shape the response to warming of a marine habitat-forming species | Crisci, Caroline | 2017 | 10.1038/s41598-017-05220-4 |
| Reproduction of the Azooxanthellate Coral Caryophyllia inornata Is Not Affected by Temperature Along an 850 km Gradient on the Western Italian Coast | Marchini, Chiara | 2020 | 10.3389/fmars.2019.00785 |
| Lethal and sublethal effects of thermal stress on octocorals early life-history stages | Viladrich, Núria | 2022 | 10.1111/gcb.16433 |
| Reproductive output of a non-zooxanthellate temperate coral is unaffected by temperature along an extended latitudinal gradient | Airi, Valentina | 2017 | 10.1371/journal.pone.0171051 |
| Heatwaves and a decrease in turbidity drive coral bleaching in Atlantic marginal equatorial reefs | Lucas, Caroline | 2023 | 10.3389/fmars.2023.1061488 |
| Potential geographic shifts in the coral reef ecosystem under climate change | Chaudhary, Chhaya | 2023 | 10.1016/j.pocean.2023.103001 |
| Continent-wide declines in shallow reef life over a decade of ocean warming | Edgar, Graham | 2023 | 10.1038/s41586-023-05833-y |