Supplementary Table S3 Meta data of extracted variables.

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|  | **Data Description** |
| **Bibliographic Data** |  |
| Title of Article | The title of the literature collected. |
| First Author | The first author's name. |
| DOI (10.XXXX/xxxxxx) | The Digital Object Identifier of the literature. |
| Number of Citations | Number of citations as of February 2024. |
| Last Author | The last author's name. |
| Number of Collaborators | Number of authors collaborating on the literature. |
| Corresponding or First Author Location (Institution and country, e.g. University of New South Wales, Australia) | First author's location (Institute location). |
| Faculty Location | Country of first author's location. |
| Year of Publication (YYYY) | The year of publication. |
| Journal | Journal which the literature was published in. |
| Study Type | Study types generalised into observational, experimental and modelling/simulation based on the nature of the literature. |
| Comment on Study Type | Additional comments about the study type. |
| Keywords used in this literature (Please use comma to separate keywords) | Keywords extracted from the literature, based on Scopus or Web of Science Core Collection database. |
| **Location of Research Data** |  |
| EcoRegion | Actual research location, this include field study, lab study, and computational study. |
| Province | Province is where Ecoregion nests within, see Spalding et al. (2007) definition of marine ecoregions of the world for specific classification of province and ecoregion. |
| Coastal/Offshore/Island? | This field is based on the nature of where the research location is, and is limited to field study, and if collection of samples is appropriate. |
| Is it in proximity to a exclusive economic zone that is a tourist attraction or urbanisation region? | This is determined if the research location is within a exclusive economic zone. |
| If yes, please specify the area: | This is the name of which country/territory (countries/territories) are involved in the previous question. |
| What is the proximity of the site in relation to the mentioned area? (United Nations Conference on the Law of the Sea, 1982). Select multiple if applicable. | This is where the research location is within the previously described EEZ. |
| Approximate Latitude, Longitude, minimum 2 decimal places (e.g. 22.3193, 114.1694. For Southern hemisphere, use -ve sign to indicate, N/A if not applicable) | The latitude and longtitude of study sites. |
| Development Status of Country (Use UN definition: https://www.un.org/en/development/desa/policy/wesp/wesp\_current/2014wesp\_country\_classification.pdf ) | This is determined by where the research country/territory is located. United Nations provided a definition for all countries and territories in the world as to which category they fall into. |
| Did the study take place at a protected area (E.g. marine park, etc.)? | If the study area is within a protected location, such as marine park, santuary or equivalent. |
| If the study took place at a protected area, please specify: | Name of previously mentioned location. |
| Did the author refer to the event taking place in an ocean current or other water bodies? | The research location can take place in ocean currents, open water, lagoon, or other water bodies. |
| What organisms are studied? | Species studied, in a common name level (e.g. coral, anemone, macroalgae, etc.) |
| What species are studied? If more than one species, please separate each specie name by coma (,) | Species studied, in a taxonomical name level (e.g. Pocillopora damicornis, Porites lutea, etc.) |
| **Research Data** |  |
| Temperature data categorisation | This explains how the temperature data was collected, for example satellite derived, in-situ measured, etc. |
| If in-situ, from what depth was the data taken? N/A if satellite-derived or did not specify in paper. (Unit in metres, e.g. 10) | If the study provides a depth where oceanographic data (temperature) was collected. |
| If in-situ, which data source is it from? (E.g. IMOS, etc.)? N/A if not specified in paper. | This includes the equipment used, or source used, such as integrated marine observing system. |
| Logging Equipment | This is the classification of data source previously answered. |
| Is there an outcome/prediction provided in the study? | This determines if the literature provided a outcome, prediction, or both as a conclusion. |
| If an outcome is provided, please provide a short description of the outcome | Self-explanatary |
| If a prediction is provided, please provide a short description of the prediction | Self-explanatary |
| Category of results | This is a checkbox question where categories of studies are classified, including benthic interaction, adaptation to marginal reefs, physiological study, etc. |
| Is the studied site classified as phase shifted/tropicalised/refugia/degraded, etc.? | If the literature mentioned the sites' condition that fell into the categories mentioned in the question. |
| Is there a causality in the study? | Self-explanatary |
| What are other environmental variables recorded? (e.g. Chlorophyll a concentration, etc.) | This is where other environmental variables studied in the literature can be inputed. |
| Main Finding of this publication | Self-explanatary |
| Remarks | Self-explanatary |
| Are the temperature raw data available? | Self-explanatary |
| **Ocean Warming Evidence Data** |  |
| When did the event start? (e.g. Sep 2022) | If the study includes an ocean warming event, when did the event start based on their definition of the event? |
| When did the event end? (e.g. Feb 2023) | If the study includes an ocean warming event, when did the event end based on their definition of the event? |
| When did the study start? (e.g. Sep 2022) | Self-explanatary |
| When did the study end? (e.g. Feb 2023) | Self-explanatary |
| Did the study take place at the same time as the event? | Is the study taking place during, overlap or after the previously described event? If the study did not describe an ocean warming event, the answer to this question would be "no". |
| Stressor used | What stressors were used when describing the ocean warming event/study? |
| Severity of event based on DHWs/MHWs definition | Self-explanatary |