Additional File 5 Google Form Questionnaire

The Google form can be accessed using the following URL:

<https://docs.google.com/forms/d/1nv_TxvgPnTJ3_IivqHkL_LOrWmO1V1DcuW3rBlXesIg/>

The following is the questions from the Google form.

Data Extraction Form Version 3 (Oct 2023)

Please use comma (,) as a separator so data collection on excel will be tidier:)

Title of Article – Short answer text

First Author, Last Author (Last name only, e.g. Doe, Doe) - Short answer text

Corresponding or First Author Location (Institution and country, e.g. University of New South Wales, Australia) – Long answer text

Year of Publication (YYYY) – Short answer text

DOI (10.XXXX/xxxxxx) – Short answer text

Reason for exclusion – Checkboxes

* N/A - Study included for data extraction
* Full text unavailable
* Full text is in a foreign language beyond the language scope of reviewers
* Research location falls outside of subtropical/temperate regions
* Does not involve a warming event
* Not primary research
* Only modelling, no observation/experiment in study
* Article published before 2010
* Other

Comments on Exclusion (If article is excluded, no further questions are needed to be answered.) – Short answer text

Is the article included for screening? – Yes/No

**Study Classification**

Study Type – Checkboxes

* Experimental
* Observational
* Modelling/Simulation

Comment on Study Type – Short answer text

Keywords used in this literature (Please use comma to separate keywords) – Short answer text

Location of Study (Location Name only) – Short answer text

Coastal/Offshore/Island? – Checkboxes

* Coastal
* Offshore (Shelf Water)
* Island

Is it in proximity to a exclusive economic zone that is a tourist attraction or urbanisation region? – Yes/No

If yes, please specify the area: - Short answer text

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. – Checkboxes

* Close/Territorial Sea (0-12 nautical miles/22.22km/13.81mil)
* Middle/Contiguous Zone (12-24 nautical miles/22.22-44.45km/13.81-230.16mil)
* Far/Exclusive Economic Zone (24-200 nautical miles/44.45-370.4km/27.62-230.16mil)
* Not specified

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) – Short answer text

Development Status of Country (Use UN definition: https://www.un.org/en/development/desa/policy/wesp/wesp\_current/2014wesp\_country\_classification.pdf ) - Checkboxes

* Developed Economies
* Economies in Transition
* Developing Economies
* Fuel-exporting Countries
* Not applicable

Did the study take place at a protected area (E.g. marine park, etc.)? – Yes/No

If the study took place at a protected area, please specify: - Short answer text

Did the author refer to the event taking place in an ocean current or other water bodies? – Checkboxes

* Ocean Currents
* Open water
* Lagoon
* Estuary
* Other

**Study Timeframe**

When did the event start? (e.g. Sep 2022) – Short answer text

When did the event end? (e.g. Feb 2023) – Short answer text

When did the study start? (e.g. Sep 2022) – Short answer text

When did the study end? (e.g. Feb 2023) – Short answer text

Did the study take place at the same time as the event? – Yes/No/NA

**Data Collection in Study**

Temperature data categorisation – Checkboxes

* Satellite-derived Data
* In-situ Collected/In-situ Derived Data
* Other

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) – Short answer text

If in-situ, which data source is it from? (E.g. IMOS, etc.)? N/A if not specified in paper. – Short answer text

Are the temperature raw data available? – Yes/No

What organisms are studied? – Checkboxes

* Coral
* Kelp
* Plankton
* Benthic Species
* Macroalgae
* Fish
* Turf
* Other

What species are studied? If more than one species, please separate each specie name by coma (,) – Short answer text

What are other environmental variables recorded? (e.g. Chlorophyll a concentration, etc.) – Long answer text

**Summary of Study**

Is there an outcome/prediction provided in the study? – Checkboxes

* Outcome
* Prediction
* Other

If an outcome is provided, please provide a short description of the outcome – Long answer text

If a prediction is provided, please provide a short description of the prediction – Long answer text

Is the studied site classified as phase shifted/tropicalised/refugia/degraded, etc.? – Checkboxes

* Phase shift
* Tropicalisation
* Refugia
* Degraded
* NA
* Other

Is there a causality in the study? – Yes/No

Stressor/Indicator used – Checkboxes

* Long-term climate change
* Marine heat waves
* Degree heating weeks
* Localised hotspot
* Other

Severity of event based on DHWs/MHWs definition – Short answer text

Main Finding of this publication – Long answer text

Remarks – Long answer text