	Terretor to the constant	w	The contraction	Real-conduction	Checklist/meta-data	and the same of th	Iz.
item	Section/sub-section	Торк	Description		Cnecksst/meta-data	Author response	Comments
			The title must indicate that it is a systematic map, and should indicate if	The title should normally be the same or very similar to the review			
1	Title	Title	it is an update/amendment: e.e. " A systematic map update."  Select one of the following types of review: systematic map, systematic	question.	Meta-data	What is the evidence for the impact of ocean warming on subtropical and temperate corals and coral reefs? A systematic map.	
2	Type of review	Type of review	man undate, systematic man amendment	updates [2]	Meta-data	systematic map	
	Author' contacts	Author' contacts	The full names, institutional addresses and email addresses for all authors must be provided.		Cherkist	Voc.	
_	August Constants	Authors contacts			CHECKEN	18.	
			The abstract of the manuscript must not exceed 500 words and must be				
			structured into separate sections: Background, the context and purpose of the review, including the review question; Methods, how the review				
			structured into separate sections: Background, the context and purpose of the review, including the review question; Methods, how the review was performed (specifically mention search strategy, inclusion criteria,				
			critical appraisal (optional), meta-data extraction and coding, and narrative synthesis); Results, the main findings, including results of				
			search and assessment of evidence base; Conclusions, brief summary				
	Apstract	Structured summary	Describe the rationale for the review in the context of what is already		Checkest	THS.	
			known. Reviews must indicate why this study was necessary and what it aims to contribute to the field.	A theory of change and/or conceptual model should be presented that links the intervention or exposure to the outcome.			
5	Background	Background		links the intervention or exposure to the outcome.	Checklist	Yes	
			The actual role of stateholders throughout the review process (e.g. in the formulation of the question) must be described and explained (using				
6	Stakeholder enzagement	Stakeholder engagement	a broad definition of 'staksholder', including e.g. researchers, funders and other decision-makers: see [31]		Checklist	No	No Stakeholder engagement
			Describe the primary question and secondary questions (when	The primary question is the main question of the review. The secondary questions are usually linked to sources of heterogeneity (effect			
7	Objective of the review	Objective	applicable).	questions are usually sinked to sources or neterogeneity (effect modifiers).	Checklist	Yes	
		Definition of the question	Provide reference to the question key elements, e.g. population(s),			Population: Subtropical and Temperate Coral Systems and Coral Reefs Exposure: Ocean Warming Comparison: Time-trends, including before-after studies Outcome: Mortality and bleaching, changes in coral habitat, acclimatisation	
8		components	intervention(s)/exposure(s), comparator(s), and outcome(s).	For other question types see [4,5]	Meta-data	companion: rime-trends, including denote-anier studies Outcome: Mortality and disacting, changes in coral natitat, acciminatisation measured by population growth.	
				The protocol should be peer-reviewed and publicly available online		***************************************	
,	Methods	Protocol	Provide citation. DOI or open-access link to outlished protocol.  Describe any ways in which the final methods of the review deviate from those set out in the protocol along with a justification.	IODAN ACCINAL	Meta-cata	10.57808/Process(3.2023.9	
10		Deviations from protocol	those set out in the protocol along with a justification.		Checklist	Yes	
			Detail the search strategy used, including: database names accessed, dates of searching, institutional subscriptions (or date ranges subscribed				
			for each database), search options (e.g. 'topic words' or 'full text' search facility), efforts to source grey literature, other sources of evidence (e.g.				
			hand searching, calls for evidence/submission of evidence by		1		
11	Searches	Search strategy	stakeholders).		Checklist	Yes	
1						Scopus: TITLE-ABS-KEY (   consil* OR "consil reef*" ) ) AND TITLE-ABS-KEY ( ( "ocean warmins" OR "marine heatwises" OR "marine	
					1	Scopus TITE-ABS-4EY ((coal* OR Torud reaf**)) AND TITE-ABS-EYY ("coan neuming" OR "marine heatware"* OR "marine heat ware" OR the "Coan the "coan neuming" OR "marine heatware" OR the "Coan the "Co	
					1	"climate change" ) AND TITLEABS-KEY ( [mortal* OR surviv* OR health* OR diseas* OR grow* OR reprodu* OR cover* OR tropical?* OR shift* OR habitat* OR increase* OR declin* OR decreas* OR impact* OR threat* OR bleach* OR arrimani?* OR	
					1	respons* ) ) AND TITLE-ABS-KEY ( ( marginal OR "high latitude" OR temperate OR subtropic* OR extratropic* ) ) Followed by a	
					1	warming" OR "marine heatwave" "OR "marine heat wave" "OR mhw" OR "degree heating week" "OR dhw" OR "heat stress" "OR	
					1	stress OR tropicali?ation OR temperature* OR "dimate change" ) AND (All Fields) ( [ montal* OR surviv* OR health* OR diseas* OR grow* OR reprodu* OR cover* OR tropicali?* OR shift* OR habitat* OR increase* OR declin* OR decreas* OR impact* OR threat* OR	
1			Provide Boolean-style full search string and state the platform for which			bleach* OR acclimati?* OR respons* ) ) AND (All Fields) ( (marginal OR "high latitude" OR temperate OR subtropic* OR extratropic*	
12		Search string	the string is formatted (e.g. Web of Science format)		Meta-data	) Followed by removal of articles published prior to 2010.	
13		Languages - bibliographic databases	List languages used in bibliographic database searches		Meta-data	English	
			List languages used in organisational website searches and web-based				
15		Languages – grey literature Bibliographic databases	search engines Provide the number of bibliographic databases searched		Meta-data Meta-data	English 2	
16		Web-based search engines	Provide the number of web-based search engines searched		Meta-data		
17		Organisational websites Estimating comprehensiveness	Provide the number of organisational websites searched Describe the process by which the comprehensiveness of the search		Meta-data	0	
18		of the search	strategy was assessed (i.e. list of benchmark articles)		Checklist	Yes	
			Describe any update to searches undertaken during the conduct of the	Compulsory (if update performed). A search update is good practice if original searches were performed more than two years prior to review			
19		Search update	renderw	completion.	Checklist	Yes	
	Article screening and study		Describe the methodology for screening articles/studies for relevance. Methods for consistency of screening decisions (at title, abstract, and full				
20	inclusion criteria	Screening strategy	texts levels) checking must be described.		Checklist	Yes	
			Describe the inclusion criteria used to assess relevance of identified articles/studies. These must be broken down into the question key				
			elements (e.g. relevant subject(s), intervention(s),(exposure(s), comparator(s), outcome(s), study design(s)) and any other restrictions				
21		technica mitoria	comparator(s), outcome(s), study design(s)) and any other restrictions (e.g. date ranges or languages).		Charlete	Voc.	
21		Inclusion criteria	Describe here the method used for critical appraisal of study validity		Checkest	16	
			(including assessment of individual studies and the evidence base as a whole). Describe how repeatability of critical appraisal of study validity				
22	Critical appraisal	Critical appraisal strategy	was tested.  Describe how the information from critical appraisal was used in	Optional	Checklist	No	No critical appraisal
22		Critical appraisal strategy Critical appraisal used in		Compulsory if critical appraisal performed	Charlete	No	Ma critical securical
		agricularia s	synthesis.  Describe the method for meta-data extraction and coding for studies, was defined lists of possibility that will be extracted as most data and there.	Compensory in Critical appraisal personalist	CHECKEN	TM.	NO CITATO APPEARS
	Meta-data extraction and	Meta-data extraction and coding	providing lists of variables that will be extracted as meta-data and those that will be coded. Describe how repeatability of meta-data/data				
24	coding strategy	strategy	extraction and coding was tested.		Checklist	Yes	
		Approaches to missing data	Describe any process for obtaining and confirming missing or unclear information or data from authors.				No missing full text
25		Approaches to missing data	Information or data from authors.  Describe methods used for narratively synthesising the evidence base in the form of descriptive statistics, tables (including SM database) and		Checklist	No	No missing full text
			the form of descriptive statistics, tables (including SM database) and				
26	Data synthesis and presentation	Narrative synthesis strategy	figures.		Checklist	Yes	
			Describe the methods used to identify and/or prioritise key knowledge		1		
1		Knowledge gap and cluster	gaps (unrepresented or underrepresented subtopics that warrant further primary research) and knowledge clusters (well-represented subtopics		l		
27		identification strategy	that are amenable to full synthesis via systematic review).		Checklist	Yes	
		Demonstrating procedural	Describe the role of systematic reviewers (who have also authored articles to be considered within the review) in decisions regarding	Reviewers who have authored articles to be considered within the review should be prevented from unduly influencing inclusion decisions, for	1		
28		independence		example by delegating tasks appropriately.	Checklist	Yes	
			Discribe the review process including the volume of evidence identified from all sources and retained through each stage of the review. Must also display the number of articles/studies included at all stages of the review in a flow diagram, including the number of articles/studies in control of the review in a flow diagram, including the number of articles/studies.		1		
1			also display the number of articles/studies included at all stages of the				
29	Results (review findings)	Description of review process	review in a flow diagram, including the number of articles/studies excluded at each stage.		Checklist	Yes	
			Provide the number of search results from bibliographic databases	This number should not include web-based search engine or organisational website searches: this will help assessment of the			
30		Number of search results	(including updates if conducted) prior to duplicate removal.	efficiency of the primary search string.	Meta-data	1919	
1		Number of search results after	Provide the total number of search results from bibliographic database	This number should not include web-based search engine or oneanisational website searches: this will help assessment of the			
31		duplicate removal	searches following dunitrate removal	efficiency of the primary search string.	Meta-data	90	
32		Full text screening excludes Title screening results	Additional file containing list of and reasons for full text exclusions.  Provide the number of articles retained following title screaming.	Optional if screening titles and abstracts treather	Checklist Meta-data	Yes NA	
34		Abstract screening results	Additional file containing list of and reasons for full text exclusions. Provide the number of articles retained following little screening. Provide the number of articles retained following abstract screening. Provide the number of articles retained following title and abstract	Outional if screenine titles and abstracts together Optional if screening titles and abstracts together	Meta-data	NA.	
35		Title and abstract screening results	Provide the number of articles retained following title and abstract screening.	Optional if screening titles and abstracts separately	Meta-data	107	
36		Retrieval results	Provide the number of articles retrieved at full text.	and organization	Meta-data	197	
38		Unobtainable articles Full text screening results	Additional file containing list of unobtainable articles.  Provide the number of articles retained following full text screening.		Checklist Meta-data	THS. 90	
		4.000	Results of consistency checking at all stages (screening, meta-data				
			extraction and coding, critical appraisal) must be provided. Provide the number of titles, abstracts and full texts screened and checked for		1		
l					l		
23		Consistency checkine: screening	2000/20000: Abstract: 500/5000: Full text: 10/1001.  Describe the body of evidence identified using figures and tables.		Checklist	Yes	
1			consistency by two or more reviewers as a fraction of the total (e.g., Title: 2000/2000). A section of total (e.g., Title: 2000/2000). A section of the total (e.g., Title: 2000/2000). A section of total (e.g., Title: 2000/2000). A secti				
1			significance). Each must be presented with descriptive information (meta- data). Describe the validity of individual studies and the autonomic hard or				
40		Narrative synthesis	a whole (if critical appraisal conducted).		Checklist	Yes	
42		Systematic map database Limitations of the review	Additional file containing meta-data and coding for included studies.  Discuss possible limitations in the methods used.		Checklist	Yes Yes	
43		Limitations of the evidence base	Discuss possible limitations in the evidence base.  Describe knowledge gaps (unrepresented or underrepresented subtopics		Checklist	Yes	
1			Describe knowledge gaps (unrepresented or underrepresented subtopics that warrant further primary research) and knowledge clusters (well- represented subtopics that are amenable to full synthesis via systematic				
44	Conclusions	Knowledge gaps and clusters			Checklist	Yes	
			Summarise the state of the evidence base and discuss the way in which				
45		Implications for policy/management	the identified evidence may inform policy/practice decision making in relation to the review/map question.	Reviews must not include practical environmental management recommendations or advocacy.	Checklist	Yes	
			Discuss the way in which the identified evidence may inform research	In this section some advocacy for future research on the reviewed topic is permissible provided it is clearly justified by the review			
46		Implications for research	including options for increasing the reliability of study design that could improve future research.	is permissible provided it is clearly justified by the review outcome/critical appraisal of study validity.	Checklist	Yes	
		4	Describe of any financial or non-financial competing interests that the	,			
47	Declarations	Competing interests	review authors may have.		Checklist	Yes	1
Beferences							

Medianes. C. I., Incid. 8.7 and Indianes, N.E., 2016. A mediandary, N.E., 2016. A mediandary for systematic imaging an end-amendal claimate. Deviamental claimate, Deviamental claimate, Deviamental claimate, Deviamental claimate, N.E., 1016. Light region, N.E., 1016. Light region of the control of the cont