# Effects of conservation interventions on coral reefs: a protocol for subject-wide evidence synthesis

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### **Abstract**

Globally, coral reefs face multiple threats, including pollution (chemical, nutrient, noise, light, etc.), ocean acidification, fishing, over-exploitation, invasive species, anchor and dredge damage, and disease, and many reefs are declining rapidly. With the pressure of these threats combined with the impacts of climate change, such as thermal stress, heat waves, and increased storm intensity, there is an urgent need for evidence-based conservation and restoration of coral reefs. Reviewing the evidence is a time-consuming and costly exercise. In general, the assessment of the evidence-base is approached on a case-by-case basis and different stakeholders independently conduct evidence reviews relative to their specific application or enquiry. This approach is counter to the philosophy of 'produce once and use many times over' and is a highly inefficient use of time and resources. Here, we use a subject-wide synthesis approach: a systematic method of reviewing and synthesising evidence for broad subject areas (such as the conservation of entire taxa). The methods outlined in this protocol are designed to simultaneously collate and summarise the evidence for the effectiveness of the entire range of potential conservation interventions for all coral reefs (fringing, barrier, patch, and atoll in tropical, temperate, or deep-sea environments). A conservation intervention is any action taken to protect, manage, enhance, or restore coral reefs. The wording used throughout this protocol is standard for a subject-wide Conservation Evidence synthesis.

**Key Words:** subject-wide evidence synthesis, coral reefs, tropical, temperate, mesophotic, deep-sea, zooxanthellae, hard coral, soft coral, conservation, intervention, restoration, management

# **Background**

Coral reefs (Phylum: Cnidaria) are found in a diverse range of marine habitats in tropical, temperate, and arctic waters from shallow coasts all the way down to the deep sea. The synopsis will consider all coral reefs including fringing, barrier, patch, and atoll reefs (see below for further details). Despite covering just 0.2% of the ocean floor, coral reefs are believed to support more than 25% of marine species (Souter et al. 2021). Coral reefs are threatened by anthropogenic impacts such as land-use change (urban, industrial and agricultural), nutrient enrichment, chemical and noise pollution, resource exploitation, damage from fishing gear and destructive fishing activity, invasive species, disease, and declining water quality (Souter et al. 2021). Climate change and increasing levels of atmospheric greenhouse gases continue to have serious direct and indirect effects including ocean acidification, more frequent bleaching events and increasing frequency and intensity of storms (Hein et al. 2020). A recent report, Status of the Coral Reefs of the World 2020, by the Global Coral Reef Monitoring Network (GCRMN) reported that between 2009 and 2018 there was a loss of 14% of the global average cover of hard coral on the world's coral reefs (Souter et al. 2021).

Although all coral reefs face broadly similar threats, actions aimed at conserving or restoring coral reefs will vary depending on species and where the reef is located. Actions can be considered within three broad themes i) protection of healthy reefs (e.g. use of marine protected areas), ii) measures to reduce impact of threats (e.g. fisheries management, pollution control), and iii) active restoration (e.g. ex-situ cultivation, transplanting). As coral reefs can take many years or even centuries to recover from damage (Boch et al. 2019), the

priority should be effective measures to protect existing reefs, followed by measures to mitigate anthropogenic impacts and threats. Restoration should work in conjunction with protection and mitigation (Montero-Serra et al. 2019; Boström-Einarsson et al. 2020; Souter et al. 2021). All these measures must be combined with global efforts to tackle climate change and reduce the devastating impact on the world's coral reefs such as a rise in ocean temperature and increased ocean acidification, as well as the equally deleterious impacts of excess nutrient input and eutrophication (Silbiger et al. 2018).

Evidence-based knowledge is key for planning successful conservation and/or restoration strategies and for the cost-effective allocation of scarce resources for conservation and restoration programmes. However, there is considered to be a paucity of evidence within the literature for the effectiveness of interventions aimed at coral reef conservation or restoration (Shaver et al. 2018). Reviews of some conservation actions (e.g. marine protected areas) have been carried out (e.g. Pendleton et al. 2018; Montero-Serra et al. 2018, NAS 2019, Boström-Einarsson et al. 2020). However, the evidence for the effectiveness of all interventions targeting coral reef conservation or restoration has not yet been synthesised and assessed under a formal review.

Here, we use a subject-wide evidence synthesis approach (Sutherland & Wordley 2018, Sutherland et al. 2019) to simultaneously summarize the evidence for the wide range of interventions dedicated to the conservation or restoration of all coral reefs (fringing, barrier, patch, and atoll in tropical, temperate, or deep-sea environments). By simultaneously targeting the entire range of potential interventions, we can review the evidence for each intervention cost-effectively, and the resulting synopsis can be updated periodically and efficiently to incorporate new research. The synopsis will be freely available at <a href="https://www.conservationevidence.com">www.conservationevidence.com</a> and, alongside the *Conservation Evidence* online database (comprising all summarized information from the synopsis along with expert assessment scores), should be a valuable asset to the toolkit of practitioners and policy makers seeking sound information to support coral reef conservation and restoration.

# Scope of the review

### 1. Review subject

This synthesis will collate global evidence for the effectiveness of conservation and restoration interventions for all coral reefs (fringing, barrier, patch, and atoll in tropical, temperate, or cold-water environments). We will include coral reefs that inhabit shallow waters through the mesophotic zone (reduced light penetration at 30 m - 150 m depth) down to the deep sea. This subject has not yet been covered using subject-wide evidence synthesis. This is defined as a systematic method of reviewing and synthesising evidence that covers broad subjects (in this case conservation or restoration of coral reefs) at once, including all closed review topics within that subject at a fine scale, and analysing results through study summary and expert assessment, or through meta-analysis. The term can also refer to any product arising from this process (Sutherland et al. 2019). The topic is therefore a priority for the discipline-wide Conservation Evidence database.

Evidence for the effectiveness of interventions targeting the conservation of other aquatic or semi-aquatic species that rely on coral reef habitats (such as fishes, invertebrates, etc.) are covered in separate synopses.

In relation to active restoration interventions, we will not include evidence from the substantial literature on the commercial cultivation of coral species solely for the aquarium trade. However, we will include these interventions where they are relevant to the conservation of wild declining or threatened species (e.g. cultivation and propagation of coral species for the purpose of reintroductions or gene banking (for future release). We will also include actions designed to restore coral reef habitat by transplanting ex-situ nursery cultivated coral on to man-made structures (e.g. frames) or natural surfaces (e.g. existing dead coral, rocks, or crevices on the sea floor); a process known as 'coral gardening'. Actions relating to enhancing artificial structures in the marine environment, other than for the purposes of coral reef conservation or restoration, are published in other synopses and will not be considered here. For this synthesis, conservation and restoration interventions will include management measures or interventions that aim to protect, conserve, or restore coral reefs and reduce or remove the negative effects of threats. The output of the project will be an authoritative, transparent, freely accessible evidence-base of summarised studies and expert assessment scores that will support coral reef management decisions and help to achieve conservation outcomes.

### 2. Advisory board

An advisory board made up of international conservationists and academics with expertise in coral reef conservation and restoration has been formed. These experts will input into the evidence synthesis at three key stages: a) reviewing the protocol including identifying key sources of evidence, b) developing a comprehensive list of conservation interventions for review and c) reviewing the draft evidence synthesis. The advisory board is listed above, although additional experts may be added during the production of the synopsis. The final list will be published in the synopsis document and online (https://www.conservationevidence.com/content/page/119).

### 3. Creating the list of interventions

At the start of the project, a comprehensive list of interventions will be developed by searching the literature and in partnership with the advisory board. The list will also be checked by Conservation Evidence to ensure that it follows the standard structure. The aim is to include all interventions that have been carried out or advised to support coral reef conservation or restoration, whether evidence for the effectiveness of an intervention is available or not. During the synthesis process further interventions may be discovered, which will be integrated into the synopsis structure.

The list of interventions will be organized into categories based on the IUCN classifications of direct threats (<a href="https://www.iucnredlist.org/resources/threat-classification-scheme">https://www.iucnredlist.org/resources/threat-classification-scheme</a>) and conservation actions (<a href="https://www.iucnredlist.org/resources/conservation-actions-classification-scheme">https://www.iucnredlist.org/resources/conservation-actions-classification-scheme</a>).

For interventions with a large literature, the intervention may be split into different methods of implementation (e.g. different designs, implementation in different seasons, different methods for growing coral, etc.), different types of coral, or broad habitats, if relevant to do so and provided that each has five or more studies testing it.

Depending on the amount of available evidence, it may not be possible to summarise the evidence for all interventions within the time frame of this project. Under those circumstances, once the comprehensive list of interventions has been produced, we will

prioritise those interventions associated with coral reef restoration for completion. We will then ask the advisory board to prioritise interventions/group of interventions and summarise the evidence starting with that for the highest priorities and then work down the priority list.

### **Methods**

### 1. Literature searches

Literature will be obtained from the Conservation Evidence discipline-wide literature database, and from searches of additional subject specific literature sources. The Conservation Evidence discipline-wide literature database is compiled using systematic searches of journals and organisational reports; relevant publications describing studies of conservation interventions for all species groups and habitats are saved from each search and are added to the database.

### a) Global evidence

Evidence from all around the world will be included.

### b) Languages included

A recent study on the topic of language barriers in global science indicates that approximately 35% of conservation studies may be in non-English languages (Amano et al. 2016). Therefore, journals published in a total of 17 languages have been searched and relevant papers extracted by Conservation Evidence:

- Arabic (12 journals)
- Chinese, simplified (61 journals)
- Chinese, traditional (14 journals)
- English (over 330 journals)
- French (13 journals)
- German (39 journals)
- Hungarian (4 journals)
- Indonesian (1 journal)
- Italian (7 journals)
- Japanese (20 journals)
- Korean (5 journals)
- Persian (9 journals)
- Polish (10 journals)
- Portuguese (29 journals)
- Russian (12 journals)
- Spanish (61 journals)
- Turkish (27 journals)
- Ukrainian (3 journals)

Journals listed as "English" are either published in English or at least carry English summaries (Appendix 1). Non-English-language journals are listed in Appendix 2. All relevant papers were added to the Conservation Evidence discipline-wide literature database (see below).

### c) Journals searched

### i) From Conservation Evidence discipline-wide literature database

All of the journals (and years) listed in Appendix 1 and Appendix 2 have already been searched and relevant papers have been added to the Conservation Evidence discipline-wide literature database. An asterisk indicates the journals most relevant to this synopsis. Others are less likely to have included papers relevant to this synopsis, but if they did, they will be summarised.

For the English language papers, all of the marine invertebrate papers will be scanned at title (and abstract if necessary) for studies relevant to this synopsis. For the non-English papers, we conducted a key-word search of the titles and in most cases abstracts for translations of 'coral'; 'reef'; 'zooxanthellae'; 'fringe'; 'barrier'; 'atoll'; 'marine invertebrate'; 'deep-sea'; and 'mesophotic'. All suitable articles will be translated then summarised.

### ii) Update searches

Due to time constraints, we will not be updating journal searches. However, we will be undertaking new searches of more relevant journals (see list below).

### iii) New searches

In addition to the list of journals in Appendix 1, focused searches of journals relevant to the conservation of coral reefs listed below will be undertaken. These journals were identified through expert judgement by the project researchers and the advisory board and ranked in order of relevance, to prioritise searches that were considered likely to yield higher numbers of relevant studies. Journals with large numbers of papers each year, or that are long-running may not be searched from the first year of publication; instead, searches will be undertaken backwards from the end of 2020 for 30 years for long-running journals. It may not be possible to search all of the journals listed within the time frame of this project. Journals will be searched in the order presented below.

- Coral Reefs
- Bulletin of Marine Science
- Ecological Engineering
- Marine Biology
- Marine Policy
- Ocean and Coastal management
- Estuarine Coastal and Shelf Science
- Western Indian Ocean Journal of Marine Science
- Deep Sea Research II
- Marine Biodiversity

### d) Reports from specialist websites searched

### i) From Conservation Evidence discipline-wide literature database

All of the report series (and years) shown in Appendix 3 have already been searched for the Conservation Evidence project. An asterisk indicates the report series most relevant to this synopsis. Others are less likely to have included reports relevant to this synopsis, but if they did they will be summarised.

### ii) Update searches

Due to time constraints, we will not be updating report searches. However, we will be undertaking new searches of more relevant reports (see list below)

### iii) New searches

New searches will target specialist reports relevant to coral reef conservation and restoration as listed below. These searches will review every report title and abstract or summary within each report series (published before the end of 2020) and add any relevant report to the project database. It may not be possible to search all of those listed within the time frame of this project. Reports will be searched in the order presented below.

- Global Coral Reef Monitoring network (GCRMN): Status of coral reefs of the world reports 1998- 2020 (<a href="https://gcrmn.net/?s=status+of+coral+reefs+of+the+world">https://gcrmn.net/?s=status+of+coral+reefs+of+the+world</a>)
- International Council for the Exploration of the Sea (ICES) Expert Groups (<a href="https://www.ices.dk/community/groups/Pages/default.aspx">https://www.ices.dk/community/groups/Pages/default.aspx</a>) reports from Working Group on Deep-water Ecology (WGDEC) Volume 2: Issue 62 (2020) and Volume 1: Issue 56 (2019) (<a href="https://www.ices.dk/community/groups/Pages/WGDEC.aspx">https://www.ices.dk/community/groups/Pages/WGDEC.aspx</a>)

The following resource has published over 9,000 reports and therefore systematic searches of every title will not be possible within the time frame of this project. Instead, key-word searches (for 'coral', 'reef', 'atoll', 'zooxanthellae') will be carried out within the topic.

• National Academies Press Reports (https://www.nap.edu/)

### e) Other literature searches

The online database <u>www.conservationevidence.com</u> will be searched for relevant publications that have already been summarised.

Where a systematic review is found for an intervention, if the intervention has a small literature (< 20 papers), all publications including the systematic review will be summarised individually. If the intervention has a large literature (≥ 20 papers), then only the systematic review will be summarised as will any publications published since the review or not included within it. Where a non-systematic review (or editorial, synthesis, preface, introduction etc.) is found for an intervention, all relevant publications referenced within it will be included, but the review itself will not be summarised. However, if the review also provides new/collective data, then the review itself will also be included/summarised (indicating which other summarized publications it includes). Relevant publications cited in other publications summarised for the synopsis will not be included (due to time restrictions).

### f) Supplementary literature identified by advisory board or relevant stakeholders

Additional journal or specialist website searches, and relevant papers or reports suggested by the advisory board or relevant stakeholders will also be included, where time permits.

Additional searches may be added during the production of the synopsis. The final list of evidence sources searched for this synopsis will be published in the synopsis document (including a summary using Appendix 4), and the full list of journals and report series searched published online (<a href="https://www.conservationevidence.com/journalsearcher/synopsis">https://www.conservationevidence.com/journalsearcher/synopsis</a>).

### g) Search record database

A database will be created of all relevant publications found during searches. Reasons for exclusion will be recorded for all those included during screening that are not summarised for the synopsis.

### 2. Publication screening and inclusion criteria

A summary of the total number of evidence sources and papers/reports screened will be published in the synopsis using the diagram in Appendix 4.

### a) Screening

To ensure consistency/accuracy when screening publications for inclusion in the literature database, an initial test using the Conservation Evidence inclusion criteria (provided below) and a consistent set of references was carried out by authors, compared with the decisions of the experienced core Conservation Evidence team. Results were analysed using Cohen's Kappa test (Cohen 1960). Where initial results did not show 'substantial' (K=0.61–0.8) or 'almost perfect' agreement (K=0.81–1.0), authors were given further training. A second Kappa test will be used to assess the consistency/accuracy of article screening for the first two years of the first journal searched by each author. Again, where results do not show 'substantial' (K=0.61–0.8) or 'almost perfect' agreement (K=0.81–1.0), authors will receive further training before carrying out further searches.

Authors of other synopses who have searched journals and added relevant publications to the Conservation Evidence literature database since 2018, and all other searchers since 2017 have undertaken the initial paper inclusion test described above; searchers prior to that have not. Kappa tests of the first two years searched have been carried out for all new searchers who have contributed to the Conservation Evidence literature database since July 2018.

We acknowledge that the literature search and screening method used by Conservation Evidence, as with any method, will result in gaps in the evidence. The Conservation Evidence literature database currently includes relevant papers from over 330 English language journals as well as over 320 non-English journals. Additional journals are frequently added to those searched, and years searched are often updated. It is possible that searchers will have missed relevant papers from those journals searched. Publication bias will not be taken into account, and it is likely that additional biases will result from the evidence that is available, for example there are often geographic biases in study locations.

### b) Inclusion criteria

The following Conservation Evidence inclusion criteria will be used.

# Criteria A: Conservation Evidence includes studies that measure the effect of an intervention that might be done to conserve biodiversity

- 1. Does this study measure the effect of an intervention that is or was under the control of humans, on wild taxa (including captives), habitats, or invasive/problem taxa? If yes, go to 3. If no, go to 2.
- 2. Does this study measure the effect of an intervention that is or was under the control of humans, on human behaviour that is relevant to conserving biodiversity? If yes, go to Criteria B. If no, the study will be excluded.
- 3. Could the intervention be put in place by a conservationist/decision maker to protect, manage or restore wild taxa or habitats, reduce impacts of threats to wild taxa or habitats, or control or mitigate the impact of the invasive/problem taxon on wild taxa or habitats? If yes, the study will be included. If no, the study will be excluded.

### Explanation:

- 1.a. Study must have a measured outcome on wild taxa, habitats or invasive species: excludes studies on domestic/agricultural species, theoretical modelling or opinion pieces. See Criteria B for interventions that have a measured outcome on human behaviour only.
- b. Intervention must be carried out by people: excludes impacts from natural processes (e.g. wave action, natural storms), impacts from background variation (e.g. sediment type, climate change), correlations with habitat types, where there is no test of a specific intervention by humans, or pure ecology (e.g. movement, distribution of species).
- 2. Study must test an intervention that could be put in place for conservation. This excludes assessing impacts of threats (interventions which remove threats would be included). The test may involve comparisons between sites/factors not originally put in place or modified for conservation but which could be (e.g. fished vs unfished sites, dredged vs undredged sites where the removal of fishing/dredging is as you would do for conservation, even if that was not the original intention in the study).

If the title and/or abstract are suggestive of fulfilling our criteria, but there is not sufficient information to judge whether the intervention was under human control, the intervention could be applied by a conservationist/decision maker or whether there are data quantifying the outcome, then the study will be included. If the article has no abstract, but the title is suggestive, then a study will be included.

We sort articles into folders by which taxon/habitat they have an outcome on. If the title/abstract does not specify which species/taxa/habitats are impacted, then the full article will be searched and then assigned to folders accordingly.

The outcome for wild taxa/habitats can be negative, neutral or positive, does not have to be statistically significant but must be quantified (if hard to judge from abstract, then it will be included). It could be any outcome that has implications for the health of individuals, populations, species, communities or habitats, including, but not limited to the following:

- Individual health, condition or behaviour, including in captivity: e.g., growth, size, weight, stress, disease levels or immune function, movement, use of natural/artificial habitat/structure, range, or predatory or nuisance behaviour that could lead to retaliatory action by humans
- Breeding: egg/sperm production, sperm motility/viability after freezing, artificial
  fertilization success, mating success, birth rate, litter size, calf/pup condition, 'overall
  recruitment'
- Genetics: genetic diversity, genetic suitability (e.g. adaptation to local conditions, use of correct flyways for migratory species, etc.)
- Life history: age/size at maturity, survival, mortality
- Population measures: number, abundance, density, presence/absence, biomass, movement, cover, age-structure, species distributions (only in response to a human action), disease prevalence, sex ratio
- Community/habitat measures: species richness, diversity measures (including trait/functional diversity), community composition, community structure (e.g. trophic structure), area covered (e.g. by different habitat types), physical habitat structure (e.g. rugosity, height, basal area)

### **Interventions** within the scope of Conservation Evidence include:

- Clear management interventions: e.g. closing an area to fishing, modifying fishing gear to reduce bycatch, controlling invasive species, creating or restoring habitats
- International or national policies
- Reintroductions or management of wild species in captivity
- Interventions that reduce human-wildlife conflict
- Interventions that change human behaviour, resulting in an impact on wild taxa or habitats

See <a href="https://www.conservationevidence.com/data/index">https://www.conservationevidence.com/data/index</a> for more examples of interventions.

### Note on study types:

Literature reviews, systematic reviews, meta-analyses or short notes that review studies that fulfil these criteria will be included.

Theoretical modelling studies will be excluded, as no intervention has been taken. However, studies that use models to analyse real-world data, or compare models to real-world situations will be included (if they otherwise fulfil these criteria).

# Criteria B: Conservation Evidence includes studies that measure the effect of an intervention that might be done to change human behaviour for the benefit of biodiversity

- 1. Does this study measure the effect of an intervention that is or was under human control on human behaviour (actual or intentional) which is likely to protect, manage or restore wild taxa or habitats, or reduce threats to wild taxa or habitats? If yes, go to 2. If no, the study will be excluded.
- 2. Could the intervention be put in place by a conservationist, manager or decision maker to change human behaviour? If yes, the study will be included. If no, the study will be excluded.

### Explanation:

- 1. a. Study must have a measured outcome on <u>actual or intentional human behaviour</u> including self-reported behaviours: excludes outcomes on human psychology (tolerance, knowledge, awareness, attitude, perceptions or beliefs).
- 1. b. change in human behaviour must be linked to outcomes for wild taxa and habitats, excludes changes in behaviour linked to outcomes for human benefit, even if these occurred under a conservation program (e.g. we would exclude a study demonstrating increased school attendance in villages under a community based conservation program).
- 1. c. Intervention must be under human control: excludes impacts from climatic or other natural events.
- 2. Study must test an intervention that could be put in place for conservation: excludes studies with no intervention e.g. correlating human personality traits with likelihood of conservation-related behaviours.

The human behaviour outcome of the study can be negative, neutral or positive, does not have to be statistically significant but must be quantified (if hard to judge from abstract, then it will be included). It could be any behaviour that is likely to have an outcome on wild taxa and habitats (including mitigating the impact of invasive/problem taxon on wild taxa or habitats). Interventions include, but are not limited to the following:

- Change in adverse behaviours (which directly threaten biodiversity) e.g. unsustainable fishing (industrial, artisanal or recreational), urban encroachment, creating noise, entering sensitive areas, polluting or dumping waste, clearing or habitat destruction, introducing invasive species
- Change in positive behaviours e.g. uptake of alternative/sustainable livelihoods, number of households adopting sustainable practices, donations
- Change in policy or conservation methods e.g. placement of protected areas, protection of key habitats/species
- Change in consumer or market behaviour e.g. purchasing, consuming, buying, willingness to pay, selling, illegal trading, advertising, consumer fraud
- Behavioural intentions to do any of the above

**Interventions** which are particularly likely to have a behaviour change outcome include, but are not limited to the following:

- Enforcement: Closed seasons, size limits, fishing gear/hunting restrictions, auditable/traceable reporting requirements, market inspections, increase number of rangers, patrols or frequency of patrols in, around or within protected areas, improve fencing/physical barriers, improve signage, improve equipment/technology used by guards
- Behaviour Change: promote alternative/sustainable livelihoods, payment for ecosystem services, ecotourism, poverty reduction, increased appreciation or knowledge, debunking misinformation, altering or re-enforcing local taboos, financial incentives
- Governance: Protect or reward whistle-blowers, increase government transparency, ensure independence of judiciary, provide legal aid
- Market Regulation: trade bans, taxation, supply chain transparency laws
- Consumer Demand Reduction: Increase awareness or knowledge, fear appeals
  (negative association with undesirable product), benefit appeal (positive association
  with desirable behaviour), worldview framing, moral framing, employing decision
  defaults, providing decision support tools, simplifying advice to consumers,
  promoting desirable social norms, legislative prohibition
- Sustainable Alternatives: Certification schemes, captive bred or artificial alternatives, sustainable alternatives
- New policies for conservation/protection

We allocate studies to folders by their outcome. All studies under Criteria B go in the 'Behaviour change' folder. They are additionally duplicated into a taxon/habitat folder if there is a specific intended final outcome of the behaviour change (if none mentioned, they will be filed only in Behaviour change).

### c) Relevant subject

Studies relevant to the synopsis subject will include those focused on the conservation or restoration of coral reefs.

### d) Relevant types of intervention

An intervention has to be one that could be put in place by a manager, conservationist, policy maker, advisor or consultant to protect, manage or restore coral reefs or reduce the impacts of threats to them. Alternatively, interventions may aim to change human behaviour (actual or intentional), which is likely to protect, manage or restore coral reefs or reduce threats to them. See inclusion criteria above for further details.

If the following two criteria are met, a combined intervention will be created within the synopsis, rather than duplicating evidence under all the separate interventions: a) there are five or more publications that use the same well-defined combination of interventions, with very clear description of what they were, without separating the effects of each individual intervention, and b) the combined set of interventions is a commonly used conservation strategy.

### e) Relevant types of comparator

To determine the effectiveness of interventions, studies must include a comparison, i.e. monitoring change over time (typically before and after the intervention was implemented), or for example at treatment and control sites. Alternatively, a study could compare one specific intervention (or implementation method) against another. For example, this could be comparing a coral reef before and after the closure of an area to bottom trawling or measuring the effectiveness of coral restoration or 'gardening' using different types of structures. Exceptions, which may not have a control but will still be included, are for example the effectiveness of ex-situ coral cultivation.

### f) Relevant types of outcome

Below we provide a list of anticipated metrics; others will be included if reported within relevant studies.

- Community response
  - Community composition
  - Richness/diversity
  - Extent/cover
- Population response
  - Abundance/cover: number, density, presence/absence, spatial distribution, agestructure
  - Reproductive success: larvae production, overall recruitment, larvae settlement
  - Survival: survival, mortality
  - Condition: growth, size, condition factors, biochemical ratios, stress, energetics, disease levels
  - Survival and growth of restored species
  - Establishment of new growth/larval settlement on restored reef
- Other
  - Reef soundscape
  - Change in human behaviour

### g) Relevant types of study design

The table below lists the study designs included. The strongest evidence comes from randomized, replicated, controlled trials with paired sites and before-and-after monitoring.

Table 1. Study designs

Term	Meaning
Replicated	The intervention was repeated on more than one individual or site. In conservation and ecology, the number of replicates is much smaller than it would be for medical trials (when thousands of individuals are often tested). If the replicates are sites, pragmatism dictates that between five and ten replicates is a reasonable amount of replication, although more would be preferable. We provide the number of replicates wherever possible. Replicates should reflect the number of times an intervention has been independently carried out, from the perspective of the study subject. For example, 10 plots within a mown field might be independent replicates from the perspective of plants with limited dispersal, but not independent replicates for larger motile animals such as birds. In the case of translocations/release of captive bred animals, replicates should be sites, not individuals.
Randomized	The intervention was allocated randomly to individuals or sites. This means that the initial condition of those given the intervention is less likely to bias the outcome.
Paired sites	Sites are considered in pairs, within which one was treated with the intervention and the other was not. Pairs, or blocks, of sites are selected with similar environmental conditions, such as water quality or adjacent land use. This approach aims to reduce environmental variation and make it easier to detect a true effect of the intervention.
Controlled*	Individuals or sites treated with the intervention are compared with control individuals or sites not treated with the intervention. (The treatment is usually allocated by the investigators (randomly or not), such that the treatment or control groups/sites could have received the treatment).
Before-and-after	Monitoring of effects was carried out before and after the intervention was imposed.
Site comparison*	A study that considers the effects of interventions by comparing sites that historically had different interventions (e.g. intervention vs no intervention) or levels of intervention. Unlike controlled studies, it is not clear how the interventions were allocated to sites (i.e. the investigators did not allocate the treatment to some of the sites).
Review	A conventional review of literature. Generally, these have not used an agreed search protocol or quantitative assessment of the evidence.
Systematic review	A systematic review follows structured, predefined methods to comprehensively collate and synthesise existing evidence. It must weight or evaluate studies, in some way, according to the strength of evidence they offer (e.g. sample size and rigour of design). Environmental systematic reviews are available at: <a href="https://www.environmentalevidence.org/index.htm">www.environmentalevidence.org/index.htm</a>
Study	If none of the above apply, for example a study looking at the number of people that were engaged in an awareness raising project. Or a study measuring change over time in only one site and only after an intervention.

<sup>\*</sup>Note that "controlled" is mutually exclusive from "site comparison". A comparison cannot be both controlled and a site comparison. However, one study might contain both controlled and site comparison aspects e.g. study of bycatch by fishers using modified nets (e.g. with a smaller mesh size) and unmodified nets (controlled), and fishers using an alternative net modification, e.g. stiffened nets (site comparison).

### 3. Study quality assessment & critical appraisal

We will not quantitatively assess the evidence from each publication or weight it according to quality. However, to allow interpretation of the evidence, we make the size and design of each study we report clear.

We will critically appraise each potentially relevant study and will exclude those that do not provide data for a comparison to the treatment, do not statistically analyse the results (or if included this will be stated in the summary paragraph) or have obvious errors in their design or analysis. A record of the reason for excluding any of the publications included during screening will be kept within the synopsis database.

### 4. Data extraction

Data on the effectiveness of the relevant intervention (e.g. reduction in damage after removal of bottom trawling inside compared to outside a protected area; species survival > 1 year post-restoration; growth rate of species attached to different frame structures > 1 year post-installation) will be extracted from, and summarised for publications that include the relevant subject, types of intervention, comparator and outcomes outlined above. A summary of the total number of evidence sources and papers/reports searched and the total number of publications included following data extraction will be published in the synopsis using the diagram in Appendix 4.

In addition to ensuring consistency/accuracy when screening publications for inclusion in the discipline-wide literature database (see above), for a set of publications, relevant data will be extracted by a member of the core Conservation Evidence team as well as the author to ensure agreement for inclusion in the synopsis. Also, at the start of each month, authors will swap three summaries with another author to ensure that the correct type of data has been extracted and that the summary follows the Conservation Evidence standard format.

### 5. Evidence synthesis

### a) Summary protocol

Each publication will usually have just one paragraph for each intervention it tests describing the study in (usually) no more than 150 words using plain English. Each summary will be in the following format:

A [TYPE OF STUDY] in [YEARS X-Y] in [HOW MANY SITES] in/of [HABITAT] in [REGION and COUNTRY] [REFERENCE] found that [INTERVENTION] [SUMMARY OF ALL KEY RESULTS] for [SPECIES/HABITAT TYPE]. [DETAILS OF KEY RESULTS, INCLUDING DATA]. In addition, [EXTRA RESULTS, IMPLEMENTATION OPTIONS, CONFLICTING RESULTS]. The [DETAILS OF EXPERIMENTAL DESIGN, INTERVENTION METHODS and KEY DETAILS OF SITE CONTEXT]. Data was collected in [DETAILS OF SAMPLING METHODS].

Type of study - use terms and order in Table 1.

Site context - for the sake of brevity, only nuances essential to the interpretation of the results are included. The reader is always encouraged to read the original source to get a full understanding of the study site (e.g. history of management, physical conditions).

### For example:

A replicated, paired, site comparison study in 2002 of two coastal coral reefs in the Philippines (1) found that establishing a marine reserve closed to fishing resulted in higher density and biomass of species of fish taken by local fishers within the reserve compared to a fished area in one of two cases. For species taken by fishers, density and biomass inside reserve one was higher (density: 68 fish/500 m<sup>2</sup>; biomass: 89 kg) than outside (27/500 m<sup>2</sup>; 25 kg), but not significantly different inside and outside reserve two (density inside and outside: 41/500 m<sup>2</sup>; no biomass data provided). For fish species not subject to fishing, density was higher inside both reserves compared to outside; however, statistical tests showed this was mainly due to habitat variation not protection status (reserve one: 146 fish/250 m<sup>2</sup> inside, 113/250 m<sup>2</sup> outside; reserve two: 93/250 m<sup>2</sup> inside, 32/250 m<sup>2</sup> outside). No-take reserves approximately 450 m long (protected for 20 years) and 650 m long (protected for 15 years) off two islands were each compared to fished areas approximately 500 m away. Fish were surveyed in November and December 2002. Divers surveyed fish at six (reserve one) and eight (reserve two) coral reef slope sites inside and outside each reserve. Counts were along 50 x 10 m transects for fish taken by fishers and 50 x 5 m transects for fish not fished. Transects were surveyed twice.

(1) Abesamis R.A., Russ G.A., Alcala A.C. (2006) Gradients of abundance of fish across no-take marine reserve boundaries: Evidence from Philippine coral reefs. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 16, 349–371.

A replicated, randomized, controlled, before-and-after study in 1993–1999 of five harvested hardwood forests in Virginia, USA (2) found that harvesting trees in groups did not result in higher salamander abundances than clearcutting. Abundance was similar between treatments (group cut: 3; clearcut: 1/30 m²). Abundance was significantly lower compared to unharvested plots (6/30 m²). Species composition differed before and three years after harvest. There were five sites with 2 ha plots with each treatment: group harvesting (2–3 small area group harvests with selective harvesting between), clearcutting and an unharvested control. Salamanders were monitored on 9–15 transects (2 x 15 m)/plot at night in April–October. One or two years of pre-harvest and 1–4 years of post-harvest data were collected.

(2) Knapp S.M., Haas C.A., Harpole D.N. & Kirkpatrick R.L. (2003) Initial effects of clearcutting and alternative silvicultural practices on terrestrial salamander abundance. *Conservation Biology*, 17, 752–762.

A replicated, randomized, paired, controlled study in 1936–2009 in eight sagebrush steppe sites in Oregon, USA (3) found that increasing the number of livestock decreased grass and herb cover, but did not significantly alter shrub cover. Grass and herb cover in grazed areas were lower (grass: 9%, herb: 17%) than in areas that were not grazed (grass: 18%, herb: 24%). However, shrub cover was not significantly different in grazed (16%) and ungrazed (16%) areas. Eight 2 ha fenced areas excluding livestock were established in 1936. Areas adjacent to the fenced areas were grazed by cattle from 1936–2008. In summer 2009, four 20 m transects were established in each study area and vegetation cover was assessed using a line intercept method.

(3) Davies K.W., Bates J.D., Svejcar T.J. & Boyd C.S. (2010) Effects of long-term livestock grazing on fuel characteristics in rangelands: an example from the sagebrush steppe. *Rangeland Ecology & Management*, 63, 662–669.

### b) Terminology used to describe the evidence

Unless specifically stated otherwise, results reflect statistical tests performed on the data, i.e. we will only state that there was a difference if it was supported by the statistical test used, and otherwise state that there was no difference or that outcomes were similar. If there is a good reason to report differences between treatments and controls that were not tested for statistical significance, it will be made clear within the summary that statistical tests were not carried out. Table 1 above defines the terms used to describe the study designs.

### c) Dealing with multiple interventions within a publication

When separate results are provided for the effects of each of the different interventions tested, separate summaries will be written under each intervention heading. However, when several interventions were carried out at the same time and only the combined effect reported, the result will be described with a similar paragraph under all relevant interventions. The first sentence will make it clear that there was a combination of interventions carried out, i.e. '.......(REF) found that [x intervention], along with [y] and [z interventions] resulted in [describe effects]'. Within the results section we will also add a sentence such as: 'It is not clear whether these effects were a direct result of [x], [y] or [z] interventions', or 'The study does not distinguish between the effects of [x], and other interventions carried out at the same time: [y] and [z].'

### d) Dealing with multiple publications reporting the same results and reviews

If two publications describe results from the same intervention implemented in the same space and at the same time, we will only include the most stringently peer-reviewed publication (i.e. journal of the highest impact factor). If one includes initial results (e.g. after year one) of another (e.g. after 1–3 years), we will only include the publication covering the longest time span. If two publications describe at least partially different results, we will include both but make clear they are from the same project in the paragraph, e.g. 'A controlled study... (Gallagher et al. 1999; same experimental set-up as Oasis et al. 2001)...'.

Basic (i.e. not systematic) reviews will only be summarised if they provide new/collective data; the individual publications will also be summarised to provide full details of each study. Publications identified in all other basic reviews will be obtained and summarised individually (where time allows). Where there is a systematic review of an intervention with a large associated literature ( $\geq 20$  papers), the systematic review will be summarised along with any papers/reports published since the systematic review. If the intervention has a small literature (< 20 papers), all publications including the systematic review will be summarised.

### e) Taxonomy

Taxonomy will not be updated but will follow that used in the original publication. Where possible, common names and Latin names will both be given the first time each species is mentioned within each summary.

### f) Key messages

Each intervention will have a set of concise, bulleted key messages at the top, written once all the literature has been summarised. These will include information such as the number, design and location of studies included.

The first bullet point will describe the total number of studies that tested the intervention and the locations of the studies, followed by key information on the relevant metrics presented under the headings and sub-headings shown below (with number of relevant studies in parentheses for each).

• **X studies** examined the effects of [INTERVENTION] on [TARGET POPULATION]. Y studies were in [LOCATION 1]<sup>1,2</sup> and Z studies were in [LOCATION 2]<sup>3,4</sup>. Locations will usually be countries (and water bodies/seas where relevant), ordered based on chronological order of studies rather than alphabetically, i.e. USA<sup>1</sup>, Australia<sup>2</sup> not Australia<sup>2</sup>, USA<sup>1</sup>. However, when more than 4-5 separate countries, they may be grouped into regions to make it clearer e.g. Europe, North America. The distribution of studies amongst habitat types may also be added here if relevant.

### **COMMUNITY RESPONSE (x STUDIES)**

- Community composition (x studies):
- Richness/diversity (x studies):

### POPULATION RESPONSE (x STUDIES)

- Abundance (x studies):
- Reproductive success (x studies):
- Survival (x studies):
- Condition (x studies):

### **USAGE (x STUDIES)**

- Uptake (x studies):
- Use (x studies):
- Behaviour change (x studies):

### **OTHER** (x STUDIES) (Included only for interventions/chapters where relevant)

• [Sub-heading(s) for the metric(s) reported will be created] (x studies):

If no evidence is found for an intervention, the following text will be added in place of the key messages above:

• We found no studies that evaluated the effects of [INTERVENTION] on [TARGET POPULATION].

'We found no studies' means that we have not yet found any studies that have directly evaluated this intervention during our systematic journal and report searches. Therefore we have no evidence to indicate whether or not the intervention has any desirable or harmful effects.

### 6. Dissemination/communication of evidence synthesis

The information from this evidence synthesis will be available in three ways:

- A synopsis pdf, downloadable from <u>www.conservationevidence.com</u>, will contain the study summaries, key messages and background information on each intervention.
- The searchable database at <u>www.conservationevidence.com</u> will contain all the summarized information from the synopsis, along with expert assessment scores.
- A chapter in *What Works in Conservation*, available as a pdf to download and a book from <a href="www.conservationevidence.com/content/page/79">www.conservationevidence.com/content/page/79</a>, will contain the key messages from the synopsis as well as expert assessment scores on the effectiveness and certainty of the synopsis, with links to the online database.

### Acknowledgements

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## APPENDIX 1. English language journals (and years) searched

Journals (and years) searched and for which relevant papers have been added to the Conservation Evidence discipline-wide literature database. An asterisk indicates the journals most relevant to this synopsis

An asterisk indicates the journals most relevant to this synopsis.

Journal	Years searched	Topic
Acrocephalus	2009-2018	All biodiversity
Acta Chiropterologica	1999-2019	All biodiversity
Acta Herpetologica	2006-2018	All biodiversity
Acta Oecologica	1990-2018	All biodiversity
Acta Theriologica	1977-2000	All biodiversity
African Bird Club Bulletin	1994-2017	All biodiversity
African Journal of Ecology*	1963-2016	All biodiversity
African Journal of Herpetology	1990-2018	All biodiversity
African Journal of Marine Science*	1983-2018	All biodiversity
African Primates	1995-2012	All biodiversity
African Sea Turtle Newsletter	2014-2018	All biodiversity
African Zoology	1979-2013	All biodiversity
Agriculture, Ecosystems & Environment	1983-2020	All biodiversity
Ambio	1972-2019	All biodiversity
American Journal of Primatology	1981-2019	All biodiversity
American Naturalist	1867-2019	All biodiversity
Amphibia-Reptilia	1980-2012	Amphibian Conservation
Amphibia-Reptilia	2013-2014	Reptile Conservation
Amphibia-Reptilia	1980-2018	All biodiversity
Amphibian & Reptile Conservation	1996-2006	Amphibian
		Conservation
Amphibian & Reptile Conservation	1996-2018	All biodiversity
Animal Biology	2003-2013	All biodiversity
Animal Conservation	1998-2019	All biodiversity
Animal Nutrition	2015-2019	All biodiversity
Animal Welfare	1992-2019	All biodiversity
Animals	2011-2019	All biodiversity
Annales Zoologici Fennici	1964-2013	All biodiversity
Annales Zoologici Societatis Zoologicae Botanicae Fennicae Vanamo	1932-1963	All biodiversity
Annual Review of Ecology, Evolution, and	1970-2020	All biodiversity
Systematics (formerly Annual Review of	1970 2020	1 111 010 01 1 01011 1
Ecology and Systematics 1970-2002)		
Annual Review of Entomology	2000-2019	All biodiversity
Antarctic Science	1980-2018	All biodiversity
Anthrozoos	1987-2019	All biodiversity
Apidologie	1958-2009	All biodiversity

Applied Herpetology Applied Vegetation Science Applied Vegetation Science Applied Vegetation Science Applied Vegetation Sciences and Conservation Aquarium Sciences and Conservation Aquarium Sciences and Conservation Aquatic Biology Aquatic Botany Aquatic Botany Aquatic Conservation: Marine and Freshwater Ecosystems* Aquatic Ecology* Aquatic Ecology* Aquatic Ecology* Aquatic Ecology* Aquatic Invasions* Aquatic Mammals Arid Land Research and Management (formerly Arid Soil Research and Management (formerly Arid Soil Research and Rehabilitation 1987- 2000) Asian Herpetological Research 1993-2008 All biodiversity Asiatic Herpetological Research 1993-2008 All biodiversity Australiasian Journal of Herpetology 1997-2019 All biodiversity Avian Conservation and Ecology 2009-2012 All biodiversity Avian Conservation and Ecology 2009-2012 All biodiversity Avian Conservation and Ecology 2001-2018 All biodiversity Avian Conservation and Ecology 2009-2019 All biodiversity Avian Conservation and Ecology 2009-2019 All biodiversity Basic & Applied Herpetology 2011-2018 All biodiversity Behaviour 1948-2013 All biodiversity Behaviour 1948-2013 All biodiversity Behaviour 1948-2013 All biodiversity Behaviour 1948-2013 All biodiversity Biocontrol (formerly Entomophaga until 1998) 1956-2016 All biodiversity Biocontrol Science and Technology 1991-1996 All biodiversity Biological Conservation* 1999-2017 All biodiversity Biological Invasions* 1999-2017 All biodiversity Biological Invasions* 1999-2017 All biodiversity Biological Conservation* 1999-2017 All biodiversity Biological Invasions* 1999-2017 All biodiversity Biological Invasions* 1999-2019 All b	Applied Animal Behaviour Science	1984-2019	All biodiversity
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	Bird Study	1980-2016	All biodiversity
Boreal Environment Research 1996-2014 All biodiversity	•		•

Bulletin Français de la Pêche et de la Pisciculture	1986-2007	All biodiversity
Bulletin of the Chicago Herpetological Society	1990-2018	All biodiversity
Bulletin of the Maryland Herpetological Society	1980-2015	All biodiversity
Canadian Journal of Fisheries and Aquatic Sciences*	1901-2018	All biodiversity
Canadian Journal of Forest Research	1971-2018	All biodiversity
Caribbean Herpetology	2010-2018	All biodiversity
Caribbean Journal of Science*	1961-2013	All biodiversity
CCAMLR Science	1985-2016	All biodiversity
CEE (Collaboration for Environmental Evidence) Systematic Reviews	2004-2016	All biodiversity
Chelonian Conservation and Biology	1993-2018	All biodiversity
Chelonian Research Monographs	1996-2017	All biodiversity
Coastal Engineering*	2000-2018	All biodiversity
Collinsorum (formerly Journal of Kansas Herpetology)	2012-2018	All biodiversity
Colonial Waterbirds	1983-1998	All biodiversity
Community Ecology	2000-2012	All biodiversity
Conservation Biology*	1987-2019	All biodiversity
Conservation Evidence*	2004-2020	All biodiversity
Conservation Genetics	2000-2013	All biodiversity
Conservation Letters*	2008-2019	All biodiversity
Contemporary Herpetology	1998-2009	All biodiversity
Contributions to Primatology	1974-1991 (final published volume)	All biodiversity
Copeia	1910-2018	All biodiversity
Courrier Scientifique du Parc Naturel Régional du Luberon et de la Réserve de Biosphère Luberon-Lure	1997-2016	All biodiversity
Cunninghamia	1981-2016	All biodiversity
Current Herpetology (formerly Acta Herpetologica Japonica 1964-1971 and Japanese Journal of Herpetology 1972-1999)	1964-2018	All biodiversity
Dodo	1977-2001	All biodiversity
Ecological and Environmental Anthropology	2005-2008	All biodiversity
Ecological Applications*	1991-2019	All biodiversity
Ecological Entomology	1985-2018	All biodiversity
Ecological Indicators	2001-2007	All biodiversity
Ecological Management & Restoration*	2000-2019	All biodiversity
Ecological Restoration*	1981-2020	All biodiversity
Ecology*	1936-2019	All biodiversity
Ecology Letters*	1998-2019	All biodiversity
Ecosystems*	1998-2013	All biodiversity
Emu	1980-2016	All biodiversity

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Endangered Species Bulletin	1966-2003	All biodiversity
Endangered Species Research	2004-2019	All biodiversity
Entomologia Experimentalis et Applicata	2015-2018	All biodiversity
Environmental Conservation*	1974-2019	All biodiversity
Environmental Entomology	1990-2018	All biodiversity
Environmental Evidence*	2012-2019	All biodiversity
Environmental Management*	1977-2019	All biodiversity
Environmentalist	1981-1988	All biodiversity
Estuaries and Coasts*	2013-2017	All biodiversity
Ethology Ecology & Evolution	1989-2014	All biodiversity
European Journal of Soil Science	1950-2012	Soil Fertility
European Journal of Wildlife Research	2004-2019	All biodiversity
(formerly Zeitschrift für Jagdwissenschaft 1955-		
2003)		
Evolutionary Anthropology	1992-2014	All biodiversity
Evolutionary Ecology	1987-2014	All biodiversity
Evolutionary Ecology Research	1999-2014	All biodiversity
Fire Ecology	2005-2016	All biodiversity
Fish and Fisheries	2000-2018	All biodiversity
Fisheries	2017-2018	All biodiversity
Fisheries Management and Ecology	1990-2018	All biodiversity
Fisheries Oceanography	1992-2018	All biodiversity
Fisheries Research	1990-2018	All biodiversity
Flora	1991-2017	All biodiversity
Folia Primatologica	1963-2014	All biodiversity
Folia Zoologica	1959-2013	All biodiversity
Forest Ecology and Management	1976-2019	All biodiversity
Freshwater Biology	1975-2016	All biodiversity
Freshwater Science (formerly Freshwater	1982-2018	All biodiversity
Invertebrate Biology; then Journal of the North		
American Benthological Society)		
Frontiers in Marine Science*	2017-2018	All biodiversity
Frontiers in Psychology	2019	All biodiversity
Functional Ecology	1987-2013	All biodiversity
Genetics and Molecular Research	2002-2013	All biodiversity
Geoderma	1967-2012	Soil Fertility
Gibbon Journal	2005-2011	All biodiversity
Global Change Biology*	1995-2017	All biodiversity
Global Ecology and Biogeography	1991-2014	All biodiversity
Global Ecology and Conservation	2014-2018	All biodiversity
Grass and Forage Science	1980-2017	All biodiversity
Herpetofauna	2003-2007	All biodiversity
Herpetologica	1936-2018	All biodiversity
Herpetological Conservation and Biology	2006-2018	All biodiversity
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Journal of Great Lakes Research	1975-2017	All biodiversity
Journal of Herpetological Medicine and Surgery	2009-2018	All biodiversity
Journal of Herpetology	1968-2018	All biodiversity
Journal of Insect Conservation	1997-2018	All biodiversity
Journal of Insect Science	2003-2018	All biodiversity
Journal of Kansas Herpetology	2002-2011	All biodiversity
Journal of Mammalian Evolution	1993-2014	All biodiversity
Journal of Mammalogy	1919-2019	All biodiversity
Journal of Mountain Science	2004-2016	All biodiversity
Journal of Negative Results: Ecology &	2004-2016	All biodiversity
Evolutionary Biology*		
Journal of North American Herpetology	2014-2017	All biodiversity
Journal of Ornithology (formerly Journal für	2004-2018	All biodiversity
Ornithologie to 2004)		
Journal of Primatology	2012-2013	All biodiversity
Journal of Range Management	1948-2004	All biodiversity
Journal of Raptor Research	1966-2016	All biodiversity
Journal of Sea Research (formerly Netherlands	1961-2018	All biodiversity
Journal of Sea Research)*	100= 2010	
Journal of the Marine Biological Association of	1887-2018	All biodiversity
the United Kingdom*	1986-2020	A 11 h i a dissaggitar
Journal of Tropical Ecology*		All biodiversity
Journal of Vegetation Science	1990-2017	All biodiversity
Journal of Wetlands Ecology	2008-2012	All biodiversity
Journal of Wetlands Environmental	2012-2016	All biodiversity
Management Journal of Wildlife Diseases	1965-2012	All biodiversity
	2013-2019	All biodiversity
Journal of Zoo and Aquarium Research Journal of Zoo and Wildlife Medicine		<u> </u>
	1970-2019	All biodiversity
Journal of Zoology	1966-2019	All biodiversity
Kansas Herpetological Society Newsletter	1974-2001	All biodiversity
Knowledge and Management of Aquatic	2008-2018	All biodiversity
Ecosystems  Lake and Reservoir Management	1984 -2016	All biodiversity
	1989-2016	All biodiversity
Land Degradation and Development	1984-2012	· ·
Land Use Policy Latin American Journal of Aquetic Memmals		Soil Fertility
Latin American Journal of Aquatic Mammals Lemur News	2002-2018	All biodiversity
	1993-2012	All biodiversity
Limnologica - Ecology and Management of Inland Waters	1999-2018	All biodiversity
Mammal Research (formerly Acta Theriologica)	2001-2019	All biodiversity
Mammal Review	1970-2019	All biodiversity
	2005-2019	· · · · · · · · · · · · · · · · · · ·
Mammal Study Mammalia		All biodiversity
Mammalia Mammalian Biology	1937-2019	All biodiversity
Mammalian Biology	2002-2018	All biodiversity

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Mammalian Genome	1991-2013	All biodiversity
Management of Biological Invasions	2010-2016	All biodiversity
Mangroves and Salt Marshes	1996-1999	All biodiversity
Marine and Freshwater Research*	1980-2018	All biodiversity
Marine Ecology*	1980-2018	All biodiversity
Marine Ecology Progress Series*	2000-2018	All biodiversity
Marine Environmental Research*	1978-2018	All biodiversity
Marine Mammal Science	1985-2019	All biodiversity
Marine Pollution Bulletin*	2010-2018	All biodiversity
Marine Turtle Newsletter	1976-2018	All biodiversity
Mesoamerican Herpetology	2014-2017	All biodiversity
Mires and Peat	2006-2016	All biodiversity
Natural Areas Journal	1992-2017	All biodiversity
Nature Conservation	2012-2019	All biodiversity
NeoBiota	2011-2017	All biodiversity
Neotropical Entomology	2004-2018	All biodiversity
Neotropical Primates	1993-2012	All biodiversity
New Journal of Botany	2011-2013	All biodiversity
New Zealand Journal of Marine and Freshwater	1967-2018	All biodiversity
Research*		
New Zealand Journal of Zoology	1974-2019	All biodiversity
New Zealand Plant Protection	2000-2016	All biodiversity
Northwest Science	2007-2016	All biodiversity
Oecologia*	1969-2020	All biodiversity
Oikos	1949-2020	All biodiversity
Ornis Scandinavica	1980-1993	All biodiversity
Ornitologi-a Neotropical	1990-2018	All biodiversity
Oryx	1950-2020	All biodiversity
Ostrich	1980-2016	All biodiversity
Pacific Conservation Biology*	1993-2020	All biodiversity
Pakistan Journal of Zoology	2004-2013	All biodiversity
Phyllomedusa	2002-2018	All biodiversity
Plant Ecology (formerly Vegetatio 1948-1996)	1948-2007	All biodiversity
Plant Protection Quarterly	2008-2016	All biodiversity
Polish Journal of Ecology	2002-2013	All biodiversity
Population Ecology	1952-2013	All biodiversity
Preslia	1973-2017	All biodiversity
Primate Conservation	1981-2014	All biodiversity
Primates	1957-2013	All biodiversity
Rangeland Ecology & Management (previously	2005-2016	All biodiversity
Journal of Range Management 1948-2004)		
Raptors Conservation	2005-2016	All biodiversity
Regional Studies in Marine Science*	2015-2018	All biodiversity

Reptile Rap - Newsletter of the South Asian Reptile Network (SARN)	1999-2016	All biodiversity
Restoration Ecology*	1993-2020	All biodiversity
Riparian Ecology and Conservation	2013-2017	All biodiversity
River Research and Applications	1987-2016	All biodiversity
Russian Journal of Ecology (Springer -	1993-2013	All biodiversity
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Russian Journal of Herpetology	1994-2018	All biodiversity
Salamandra (English 2005+)	2005-2018	All biodiversity
Slovak Raptor Journal	2007-2016	All biodiversity
Small Ruminant Research	1988-2017	All biodiversity
Soil Biology & Biochemistry	1969-2012	Soil Fertility
South African Journal of Botany	1982-2016	All biodiversity
South African Journal of Wildlife Research	1971-2014	All biodiversity
South American Journal of Herpetology	2006-2018	All biodiversity
Southern Forests	2008-2013	All biodiversity
Testudo	1978-2017	All biodiversity
The Canadian Field-Naturalist (formerly Ottawa	1887-2019	All biodiversity
Naturalist) The Condor	1980-2009	All biodiversity
The Herpetological Bulletin	2008-2018	All biodiversity
The Herpetological Journal	1985-2016	All biodiversity
The Journal of Wildlife Management	1945-2019	All biodiversity
The Open Ornithology Journal	2008-2016	All biodiversity
The Rangeland Journal	1976-2016	All biodiversity
The Southwestern Naturalist	1976-2016	All biodiversity  All biodiversity
The Wilson Bulletin	1930-2018	All biodiversity
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The Wilson Journal of Ornithology (formerly The Wilson Bulletin)	2006-2016	All biodiversity
Trends in Ecology and Evolution*	1986-2019	All biodiversity
Tropical Conservation Science*	2008-2018	All biodiversity
Tropical Ecology*	1960-2018	All biodiversity
Tropical Grasslands	1967-2010	All biodiversity
Tropical Zoology	1988-2018	All biodiversity
Turkish Journal of Zoology	1996-2014	All biodiversity
Ursus	1968-2019	All biodiversity
Vietnamese Journal of Primatology	2007-2009	All biodiversity
Wader Study Group Bulletin	1970-1977	All biodiversity
Waterbirds (formerly Colonial Waterbirds)	1999-2016	All biodiversity
Weed Biology and Management	2001-2016	All biodiversity
Weed Research	1961-2017	All biodiversity
West African Journal of Applied Ecology	2000-2016	All biodiversity
Western North American Naturalist	2000-2017	All biodiversity
Wetlands	1981-2016	All biodiversity
Wetlands Ecology and Management	1989-2016	All biodiversity

Wildfowl	1948-2018	All biodiversity
Wildlife Biology	1995-2013	All biodiversity
Wildlife Monographs	1958-2013	All biodiversity
Wildlife Research	1956-2012	Bat Conservation
Wildlife Research	1974-2019	All biodiversity
Wildlife Society Bulletin	1973-2019	All biodiversity
Zhurnal Obshchei Biologii	1972-2013	All biodiversity
Zoo Biology	1982-2019	All biodiversity
ZooKeys	2008-2013	All biodiversity
Zoologica Scripta	1971-2014	All biodiversity
Zoological Journal of the Linnean Society	1856-2013	All biodiversity
Zootaxa	2004-2014	All biodiversity

# Appendix 2: Non-English language journals (and years) searched

Journal	Years searched	Language
Journal of Agricultural, Environmental and Veterinary Sciences	2018-2020	Arabic
مجلة العلوم الزراعية والبيئية والبيطرية Journal of Thi-Qar Science مجلة علوم ذي قار	2014-2018	Arabic
Journal of Marine Sciences and Environmental Techniques مجلة علوم البحار والتقنيات البيئية	2016-2019	Arabic
Journal of King Abdulaziz University: Environmental Design Science مجلة جامعة الملك عبد العزيز: علوم تصاميم البيئة	2003-2017	Arabic
Journal of King Abdulaziz University: Marine Sciences مجلة جامعة الملك عبدالعزيز: علوم البحار	2000-2018	Arabic
Afak Ilmia Journal مجلة أفاق علمية	2017-2020	Arabic
The Arab Journal for Arid Environments المجلة العربية البيئات الجافة	2009-2018	Arabic
Baghdad Science Journal مجلة بغداد للعلوم	2004-2020	Arabic
Tishreen University Journal for Research and Scientific Studies: Biological Sciences Series مجلة جامعة تشرين للبحوث والدراسات العلمية للبحولوجية	2001-2020	Arabic
Journal of Plant Protection مجلة وقاية النبات العربية	1993-2019	Arabic
Journal of King Abdulaziz University: Economics and Administration مجلة جامعة الملك عبدالعزيز: الاقتصاد والإدارة	2015-2020	Arabic
Marsh Bulletin مجلة الاهوار	2010-2020	Arabic
Revue d'Écologie (La Terre et La Vie) Earth and Life	2006-2018	French
Bulletin de la Société Zoologique de France Bulletin of the French Zoology Society	1973-2015	French
Le Naturaliste Canadien The Canadian Naturalist	2008-2018	French
VertigO	2009-2019	French
Biotechnologie, Agronomie, Société et Environnement Biotechnology, Agronomy, Society and Environment	2008-2020	French
Écoscience Ecoscience	1994-2019	French
Bois et Forêts des Tropiques Tropical Woodlands and Forests	2009-2020	French

Alauda	2000-2005	French
Ecologia Mediterranea	2000-2019	French
Ecologia Mediterranea: International Journal of		
Mediterranean Ecology		
Travaux Scientifiques du Parc National de Port-	2000-2019	French
Cros		
Scientific Reports of the Port-Cros National Park		
Travaux Scientifiques du Parc National de la	1986-2009	French
Vanoise		
Scientific Reports of the Vanoise National Park		
Naturae	2017-2020	French
Die Orchidee	1949-2016	German
The Orchid		
Mertensiella	1988-2017	German
Die Erde	1952-2004	German
The Earth		
Journal für Ornithologie (German: up to 2004)	1959-2003	German
Journal of Ornithology (German: up to 2004)		
Mitteilungen des Badischen Landesvereins für	1953-2015	German
Naturkunde und Naturschutz		
Communications of the Baden Association for		
Natural History and Nature Conservation		
Die Vogelwelt: Beiträge zur Vogelkunde	2005-2017	German
Bird Life: Contributions to Ornithology		
Zeitschrift für Jagdwissenschaft	1955-2003	German
Journal of Hunting Science [Became European		
Journal of Wildlife Research (Springer) in 2004]		
Freiberg Online Geoscience - FOG	1998-2017	German
Gesunde Pflanzen: Pflanzenschutz,	2002-2017	German
Verbraucherschutz, Umweltschutz		
Healthy Plants: Crop Protection, Consumer		
Protection, Environment Protection		
Vogelwarte: Zeitschrift für Vogelkunde	2005-2017	German
Bird Observatory: Ornithology Journal		
Die Bodenkultur: Journal of Land Management,	2016-2017	German
Food and Environment		
Soil Culture: Journal for Land Management,		
Food and Environment		
Waldökologie Online (until 2008)	2004-2008(6)	German
Forest Ecology Online		
RANA - Mitteilungen für Feldherpetologie und	Vol1(1983)-	German
Ichthyofaunistik	Vol17(2016)	
RANA - Communications for Field Herpetology	excluding special	
and Ichthyofauna	issues	
Telma	1971-2019	German
Auenmagazin (Magazin des Auenzentrums	2010-2017	German
Neuburg a. d. Donau)		
Floodplains Journal (Magazine of the		
Auenzentrums Neuburg a. d. Danube)		

Biodiversität und Naturschutz in Ostösterreich	2015-2018	German
Biodiversity and Conservation in Eastern Austria		
The Bird Fauna	2005-2017	German
Die Vogelwelt		
Salamandra (German 1965-2004)	1965-2004	German
Insecta	1992-2014	German
Natur und Landschaft: Zeitschrift fur	1990-2017	German
Naturschutz und Landschaftspflege		
Nature and Landscape: Journal for Nature		
Conservation and Landscape Management		
Bulletin de la Société des Naturalistes	1950-2017	German
Luxembourgeois		
Bulletin of the Luxemburgian Naturalist Society		
Tuexenia	1981-2016	German
Forstarchiv	2007-2017	German
Forestry Archive	2007 2017	German
Zeitschrift für Feldherpetologie	1994-2017	German
Journal for Field Herpetology	155. 2017	German
Naturschutz und Landschaftsplanung	2003-2017	German
Conservation and Landscape Planning	2002 2017	German
Arachnologische Mitteilungen	1991-2017	German
Arachnological Letters	1331 2017	German
Fachzeitschrift für Waldökologie,	2008-2016	German
Landschaftsforschung und Naturschutz (formerly	2000 2010	German
Waldökologie Online)		
Journal for Forest Ecology, Landscape Research		
and Nature Conservation		
Silva Fera: Wissenschaftliche Nachrichten aus	2012-2017	German
dem Wildnisgebiet Dürrenstein		
Silva Fera: Scientific News from the Dürrenstein		
Wilderness Area		
Inatura Forschung Online	1996-2007	German
Inatura Research Online	1330 2007	
ABU-Info (Arbeitsgemeinschaft Biologischer	2006-2017	German
Umweltschutz im Kreis Soest e.V.)	2000 2017	
ABU-Info (Working Group for Biological		
Environmental Protection in Soest District		
Libellula	1982-2016	German
Der Zoologische Garten: Zeitschrift für die	2007-2017	German
Gesamte Tiergärtnerei (Neue Folge)	2007 2017	German
The Zoological Garden: Journal for the Entire		
Zoo		
Pulsatilla: Zeitschrift für Botanik und	2000-2007	German
Naturschutz	2000 2007	
Pulsatilla: Journal of Botany and Nature		
Conservation		
Hercynia	1963-2017	German
Der Ornithologische Beobachter	1950-2017	German
Ornithological Observer	1/30-201/	German
Ormanological Observer	L	

Allgemeine Forst- und Jagdzeitung   Journal for Forestry and Forest Science   Nyctalus: Internationale Fieldermans-   Fachzeitschrift   Swyctalus: Internationale Fieldermans-   1951-2017   German   Swyctalus: International Bat Journal   Swyctalus: International Bat Journal   Ornithological Journal   Portstwesen und Landschaftsökologic Archive for Forestry and Landscape Ecology   Botanik und Naturschutz in Hessen   1987-2018   German   German   Swampan   Swampan   German   Swampan   Swampan   Swampan   German   Swampan   Swampan   German   Swampan   Swampan   German   Swampan   Swampan   German   German   German   Swampan   German   German   German   German   German   German   German   Swampan   German			
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Doubutsugaku zasshi	1888-1983	Japanese
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Bulletin of the Herpetological Society of Japan 爬虫両棲類学会報	1999-2008	Japanese
Landscape Research Japan Online	2008-2017	Innanaga
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Journal of the Japanese Institute of Landscape	1934-1994	Innanasa
Architects (1934-1994)	1934-1994	Japanese
Wildlife and Human Society	2013-2017	Japanese
Whiting and Human Society   野生生物と社会	2013-2017	Japanese
Ecology and Civil Engineering	1998-2017	Japanese
Coology and Civil Engineering   応用生態工学	1990-2017	Japanese
Japanese Journal of Conservation Ecology	1996-2016	Japanese
保全生態学研究	1770-2010	Japanese
Journal of the Mammalogical Society of Japan	1959-1986	Japanese
哺乳動物学雑誌	1737-1700	Japanese
Journal of the Japanese Institute of Landscape	1994-2017	Japanese
Architecture (1994+)	1774 2017	Japanese
ランドスケープ研究		
Reintroduction	2011-2019	Japanese
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Bulletin of the International Association for	2002-2003	Japanese
Landscape Ecology-Japan		
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Strix	1982-2017	Japanese
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Journal of the Japanese Forestry Society (1919-	1985-2004	Japanese
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Korean Journal of Environmental Biology	2002-2020	Korean
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Korean Journal of Environment and Ecology	2001-2020	Korean
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Journal of Wetlands Research	1999-2020	Korean
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Korean Journal of Ornithology	1994-2020	Korean
한국조류학회지		
Journal of Korean Society of Forest Science	2002-2020	Korean
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مجله منابع طبيعي ايران		
Journal of Environmental Studies	2009-2017	Persian
محیط شناسی		
Journal of Natural Environment	2010-2017	Persian
نشریه محیط زیست طبیعی		
Environmental Researches	2010-2017	Persian
پژوهش های محیط زیست		
Experimental Animal Biology	2012-2017	Persian
زیست شناسی جانوری تجربی		
Journal of Animal Researches	2013-2017	Persian
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Journal of Environmental Sciences	2004-2017	Persian
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Iranian Journal of Applied Ecology	2012-2017	Persian
بوم شناسی کاربردی	201150:-	
Journal of Animal Environment	2014-2017	Persian
فصلنامه محيط زيست جانورى		
Parki Narodowe i Rezerwaty Przyrody	2009-2015	Polish
National Parks and Nature Reserves		
Chrońmy Przyrodę Ojczystą	2004-2019	Polish
Let's Protect Our Indigenous Nature		
Ornis Polonica	2010-2020	Polish
Nature Conservation (English language Vol58	2001-2008	Polish
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Studia Naturae	1987-2013	Polish
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Notatki Ornitologiczne	1989-2009	Polish
Ornithological Notes		
Przegląd Przyrodniczy	2010-2019	Polish
Nature Review		
Naturalia	2012-2016	Polish
Nietoperze	2000-2011	Polish
Bats		
Kulon	1996-2018	Polish
Stone Curlew		
Biodiversidade Brasileira	2011-2016	Portuguese
Brazilian Biodiversity		
Revista de Gestão Costeira Integrada	2007-2019	Portuguese
Journal of Integrated Coastal Zone Management		
Arquipelago - Life and Marine Sciences	1980-2020	Portuguese
Ambiência	2005-2019	Portuguese
Evolução e Conservação da Biodiversidade	2010-2011	Portuguese
Evolution and Conservation of Biodiversity		
Megadiversidade	2005-2009	Portuguese
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Revista Brasileira de Gestão Ambiental e	2014-2017	Portuguese
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Neotropical Biology and Conservation2006-2017PortugueseCiência & Ambiente1990-2015PortugueseScience and Environment2004-2018PortugueseRevista de Biologia Neotropical2004-2018PortugueseJournal of Neotropical Biology2007-2019PortugueseRevista de Ciências Agrárias (SCAP)2007-2019PortugueseJournal of Agricultural Sciences (SCAP)PortugueseBiodiversidade (UFMT)2007-2019PortugueseFloresta1969-2017PortugueseRevista Brasileira de Ecologia1997-2009PortugueseBrazilian Journal of Ecology2001-2011PortugueseBiota Neotropica2001-2011PortugueseNeotropical Biodiversity2013-2018PortugueseBoletim do Museu de Biologia Mello Leitão2013-2018PortugueseBulletin of the Mello Leitão Biology MuseumPortugueseBiota Amazônica2011-2018Portuguese		2003-2009	Portuguese
Ciência & Ambiente Science and Environment  Revista de Biologia Neotropical Journal of Neotropical Biology Revista de Ciências Agrárias (SCAP) Journal of Agricultural Sciences (SCAP)  Biodiversidade (UFMT)  Floresta  Revista Brasileira de Ecologia Brazilian Journal of Ecology  Biota Neotropica Neotropical Biologia Mello Leitão Bulletin of the Mello Leitão Biology Museum  Biota Amazônica Amazonian Biota  Portuguese			
Science and Environment Revista de Biologia Neotropical Journal of Neotropical Biology Revista de Ciências Agrárias (SCAP) Journal of Agricultural Sciences (SCAP) Biodiversidade (UFMT) Biodiversidade (UFMT) Biodiversidade (UFMT)  Floresta 1969-2017 Portuguese Revista Brasileira de Ecologia Brazilian Journal of Ecology Biota Neotropica Neotropical Biodiversity Boletim do Museu de Biologia Mello Leitão Bulletin of the Mello Leitão Biology Museum Biota Amazônica Amazonian Biota  Portuguese Portuguese Portuguese Portuguese Portuguese Portuguese Portuguese Portuguese Portuguese			Portuguese
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Journal of Neotropical Biology Revista de Ciências Agrárias (SCAP) Journal of Agricultural Sciences (SCAP) Biodiversidade (UFMT) Biodiversidade (UFMT)  Floresta Portuguese Revista Brasileira de Ecologia Brazilian Journal of Ecology Biota Neotropica Neotropical Biodiversity Boletim do Museu de Biologia Mello Leitão Bulletin of the Mello Leitão Biology Museum Biota Amazônica Amazonian Biota  Portuguese	Science and Environment		
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Journal of Agricultural Sciences (SCAP)  Biodiversidade (UFMT)  Floresta  Revista Brasileira de Ecologia Brazilian Journal of Ecology  Biota Neotropica Neotropical Biodiversity  Boletim do Museu de Biologia Mello Leitão Bulletin of the Mello Leitão Biology Museum  Biota Amazônica Amazonian Biota  Portuguese  2001-2011 Portuguese Portuguese  2013-2018 Portuguese Portuguese			
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Floresta 1969-2017 Portuguese Revista Brasileira de Ecologia 1997-2009 Portuguese Brazilian Journal of Ecology 2001-2011 Portuguese Neotropical Biodiversity Portuguese Boletim do Museu de Biologia Mello Leitão 2013-2018 Portuguese Bulletin of the Mello Leitão Biology Museum Biota Amazônica 2011-2018 Portuguese Amazonian Biota			
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Brazilian Journal of Ecology  Biota Neotropica 2001-2011 Portuguese Neotropical Biodiversity  Boletim do Museu de Biologia Mello Leitão 2013-2018 Portuguese Bulletin of the Mello Leitão Biology Museum  Biota Amazônica 2011-2018 Portuguese Amazonian Biota		1969-2017	
Brazilian Journal of Ecology  Biota Neotropica Neotropical Biodiversity  Boletim do Museu de Biologia Mello Leitão Bulletin of the Mello Leitão Biology Museum  Biota Amazônica Amazonian Biota  Portuguese  2013-2018 Portuguese Portuguese	Revista Brasileira de Ecologia	1997-2009	Portuguese
Neotropical Biodiversity  Boletim do Museu de Biologia Mello Leitão Bulletin of the Mello Leitão Biology Museum  Biota Amazônica Amazonian Biota  Portuguese  2011-2018 Portuguese	Brazilian Journal of Ecology		
Boletim do Museu de Biologia Mello Leitão Bulletin of the Mello Leitão Biology Museum Biota Amazônica Amazonian Biota Portuguese Portuguese	Biota Neotropica	2001-2011	Portuguese
Bulletin of the Mello Leitão Biology Museum  Biota Amazônica 2011-2018 Portuguese Amazonian Biota	Neotropical Biodiversity		
Biota Amazônica 2011-2018 Portuguese Amazonian Biota	Boletim do Museu de Biologia Mello Leitão	2013-2018	Portuguese
Amazonian Biota	Bulletin of the Mello Leitão Biology Museum		
	Biota Amazônica	2011-2018	Portuguese
Roletim da Sociedade Brasileira de 1985-2017 Portuguese	Amazonian Biota		
Dolemii da Sociedade Diasiiena de   1763-2017   1 Olluguese	Boletim da Sociedade Brasileira de	1985-2017	Portuguese
Mastozoologia	Mastozoologia		
Bulletin of the Brazilian Society of	•		
Mastozoology (mammalogy)	Mastozoology (mammalogy)		
Zoologicheskiĭ Zhurnal (Russian Journal of 1939-2020(8) Russian	Zoologicheskiĭ Zhurnal (Russian Journal of	1939-2020(8)	Russian
Zoology)	= :		
Зоологический журнал	Зоологический журнал		
Contemporary Problems of Ecology 1994-2020 Russian	Contemporary Problems of Ecology	1994-2020	Russian
Сибирский экологический журнал	Сибирский экологический журнал		

Bulletin of Moscow Society of Naturalists:	1935-2020	Russian
Biological Series		
Бюллетень МОИП, серия биологическая		
Steppe Bulletin	1998-2020	Russian
Степной бюллетень		
Russian Journal of Ornithology	1993-2020	Russian
Русский орнитологический журнал		
Journal of Ichthyology	1961-2020	Russian
Вопросы ихтиологии	2007 2000(0)	-
Herald of Game Management	2007-2020(2)	Russian
Вестник охотоведения	2000 2020(4)	<u> </u>
Ekologiya (Russian Journal of Ecology)	2000-2020(4)	Russian
Экология	2000 2010	
Current Studies in Herpetology	2000-2019	Russian
Современная герпетология	1057.2020	D .
Biology Bulletin	1957-2020	Russian
Известия РАН, серия биологическая	2002 2020	Di
Povolzhsky Journal of Ecology	2002-2020	Russian
Поволжский экологический журнал Nature Conservation Research	2016 2020(No. 2)	Russian
	2016-2020(No.3)	Russian
Заповедная наука Advances in Marine Science	1983-2017	Simplified Chinese
	1983-2017	Simplified Chinese
海洋科学进展		
Journal of Fisheries of China	1965-2017	Simplified Chinese
<b>水产学</b> 报		
Asian Journal of Ecotoxicology	2006-2017	Simplified Chinese
生态 <b>毒理学</b> 报		
China Environmental Science	1981-2017	Simplified Chinese
   中国环 <b>境科学</b>		1
Plant Diversity and Resources	1975-2017	Simplified Chinese
·	17/3/2017	Simplified Chinese
植物分类与资源学报杂志	100-001-	
Journal of Arid Land Resources and	1987-2017	Simplified Chinese
Environment		
十 <b>旱区</b> 资 <b>源与</b> 环境		
Journal of Mountain Science/Research	1983-2017	Simplified Chinese
山地学报		
Resources and Environment in the Yangtze	1992-2017	Simplified Chinese
Basin	1772-2017	Simplified Clinicsc
长江流域资源与环境 Protocultural Science	1004 2017	Cimplified Chieses
Pratacultural Science	1984-2017	Simplified Chinese
草业科学		
Acta Ecologica Sinica	1981-2016	Simplified Chinese
生态学报		
•		

水土保持通报 Chinese Journal of Eco-Agriculture 中国生态农业学报 Chinese Journal of Ecology 生态学杂志 Journal of Plant Resources and Environment 植物资源与环境学报 Chinese Bulletin of Botany 植物学报 Chinese Bulletin of Life Science 生命科学 Sichuan Journal of Zoology 四川动物	081-2017 093-2017 082-2016 092-2016 006-2016 088-2017 096-2016	Simplified Chinese  Simplified Chinese  Simplified Chinese  Simplified Chinese  Simplified Chinese
Chinese Journal of Eco-Agriculture 中国生态农业学报 Chinese Journal of Ecology 生态学杂志 Journal of Plant Resources and Environment 植物资源与环境学报 Chinese Bulletin of Botany 植物学报 Chinese Bulletin of Life Science 生命科学 Sichuan Journal of Zoology 四川动物	082-2016 092-2016 006-2016 088-2017	Simplified Chinese  Simplified Chinese  Simplified Chinese  Simplified Chinese  Simplified Chinese
中国生态农业学报 Chinese Journal of Ecology 生态学杂志 Journal of Plant Resources and Environment 植物资源与环境学报 Chinese Bulletin of Botany 植物学报 Chinese Bulletin of Life Science 生命科学 Sichuan Journal of Zoology 四川动物	082-2016 092-2016 006-2016 088-2017	Simplified Chinese  Simplified Chinese  Simplified Chinese  Simplified Chinese  Simplified Chinese
Chinese Journal of Ecology 生态学杂志  Journal of Plant Resources and Environment 植物资源与环境学报  Chinese Bulletin of Botany 植物学报  Chinese Bulletin of Life Science 生命科学  Sichuan Journal of Zoology 四川动物	992-2016 906-2016 988-2017 996-2016	Simplified Chinese  Simplified Chinese  Simplified Chinese  Simplified Chinese
生态学杂志  Journal of Plant Resources and Environment 植物资源与环境学报  Chinese Bulletin of Botany 植物学报  Chinese Bulletin of Life Science 生命科学  Sichuan Journal of Zoology 四川动物	992-2016 906-2016 988-2017 996-2016	Simplified Chinese  Simplified Chinese  Simplified Chinese  Simplified Chinese
Journal of Plant Resources and Environment 植物资源与环境学报 Chinese Bulletin of Botany 植物学报 Chinese Bulletin of Life Science 生命科学 Sichuan Journal of Zoology 四川动物	006-2016 088-2017 096-2016	Simplified Chinese Simplified Chinese Simplified Chinese
植物资源与环境学报 Chinese Bulletin of Botany 植物学报 Chinese Bulletin of Life Science 生命科学 Sichuan Journal of Zoology 四川动物	006-2016 088-2017 096-2016	Simplified Chinese Simplified Chinese Simplified Chinese
Chinese Bulletin of Botany	988-2017 996-2016	Simplified Chinese Simplified Chinese
植物学报 Chinese Bulletin of Life Science 19 生命科学 Sichuan Journal of Zoology 19 四川动物	988-2017 996-2016	Simplified Chinese Simplified Chinese
Chinese Bulletin of Life Science 19 生命科学 Sichuan Journal of Zoology 19 四川动物	996-2016	Simplified Chinese
生命科学 Sichuan Journal of Zoology 四川动物	996-2016	Simplified Chinese
Sichuan Journal of Zoology 19 四川动物		
	977-2017	Simplified Chinaga
Marine Sciences 19	977-2017	Cimplified Chinasa
海洋科学		Simplified Chinese
	981-2018	Simplified Chinese
兽类 <b>学</b> 报		
Zoological Systematics 19	964-2017	Simplified Chinese
动 <b>物分</b> 类 <b>学</b> 报		
Marine Environmental Science 19	982-2017	Simplified Chinese
海洋环境科学		
Chinese Journal of Applied and Environmental 19	995-2017	Simplified Chinese
Biology		
应 <b>用与环境生物学</b> 报		
Environmental Science 19	976-2017	Simplified Chinese
环境科学		
Acta Phytophylacica Sinica 19	962-2017	Simplified Chinese
植物保护学报		
Bulletin of Botanical Research 19 植物研究	959-2017	Simplified Chinese
Journal of Desert Research 中国沙漠	981-2017	Simplified Chinese
	997-2017	Simplified Chinese
<b>水生生物学</b> 报		
Acta Agrestia Sinica 19	989-2017	Simplified Chinese
- <b>草地学</b> 报		
Soils 19	958-2017	Simplified Chinese
土壤		
Journal of Soil and Water Conservation 19	987-2017	Simplified Chinese
水土保持学报		

Plant Protection	1963-2016	Cimplified Chinese
	1903-2010	Simplified Chinese
植物保护	1005 2015	G: 1'C' 1 G1 '
Chinese Journal of Biological Control	1985-2017	Simplified Chinese
中国生物防治学报	1001 2015	G: 1101 1 GI:
Journal of Agro-Environment Science	1981-2017	Simplified Chinese
农业环 <b>境科学学</b> 报		
Journal of China Agricultural University	1955-2017	Simplified Chinese
<b>中国</b> 农业 <b>大学学</b> 报		
Shanghai Environmental Science	1982-2017	Simplified Chinese
<b>上海</b> 环境科学		
Biodiversity Science	1993-2016	Simplified Chinese
生物多样性		
Chinese Journal of Plant Ecology (formerly Acta Phytoecologica Sinica, Acta Phytoecologica et Geobotanica Sinica, Journal of Plant Ecology) 植物生态学报	1963-2016	Simplified Chinese
Resources Science	1977-2016	Simplified Chinese
资 <b>源科学</b>	2010	
Ecological Science	1982-2016	Simplified Chinese
生态科学	1902 2010	Simplified Chinese
Journal of Natural Resources	1986-2016	Simplified Chinese
<b>自然资源学</b> 报	1,00 2010	
Current Zoology (formerly Acta Zoologica	1935-2008	Simplified Chinese
Sinica 1935-2008)		
动 <b>物学</b> 报		
Chinese Journal of Wildlife	1979-2016	Simplified Chinese
<b>野生</b> 动 <b>物学</b> 报		
Journal of Biology	1983-2016	Simplified Chinese
生物学杂志		
Urban Environment & Urban Ecology	1988-2016	Simplified Chinese
<b>城市</b> 环 <b>境与城市生</b> 态		
World Forestry Research	1988-2017	Simplified Chinese
世界林业研究		
Scientia Silvae Sinicae	1955-2017	Simplified Chinese
林业科学		
Acta Botanica Boreali-Occidentalia Sinica	2012-2016	Simplified Chinese
<b>西北植物学</b> 报		
Wetland Science 湿地科学	2003-2017	Simplified Chinese
Journal of Lake Sciences 湖泊科学	1989-2017	Simplified Chinese

Acta Pedologica Sinica	1948-2017	Simplified Chinese
<b>土壤学</b> 报		
Chinese Journal of Applied Ecology	1990-2016	Simplified Chinese
Acta Prataculturae Sinica	2008-2017	Simplified Chinese
草业学报		
Chinese Journal of Grasslands (formerly Grassland of China)	1979-2016	Simplified Chinese
<b>中国草地学</b> 报		
Chinese Journal of Microecology	1989-2017	Simplified Chinese
中国微生态学杂志		
Journal of Ecology and Rural Environment (formerly Rural Eco-Environment) 生态与农村环境学报	1985-2017	Simplified Chinese
Chinese Journal of Zoology	1957-2016	Simplified Chinese
动物学杂志	1937-2010	Simplified Climese
Journal of Tropical and Subtropical Botany 热带亚热带 <b>植物学</b> 报	1992-2016	Simplified Chinese
Life Science Research 生命科学研究	1997-2016	Simplified Chinese
Zoological Research	1980-2016	Simplified Chinese
动 <b>物学研究</b>		
Journal of Hydroecology (formerly Reservoir Fisheries)	1981-2017	Simplified Chinese
水生态 <b>学</b> 杂志		
Ecology and Environmental Sciences (formerly Ecology and Environment) 生态环境学报	1992-2016	Simplified Chinese
Cedamaz	2014-2018	Spanish
BioScriba	2008-2017	Spanish
Ecosistemas: Revista Científica de Ecología y Medio Ambiente Ecosystems: Scientific Journal of Ecology and Environment	2001-2018	Spanish
Notulas Faunisticas	2008-2018	Spanish
Animal Biodiversity and Conservation	2001-2019	Spanish
Folia Amazónica	1988-2018	Spanish
Caldasia	1940-2019	Spanish
El Hornero: Revista de Ornitología Neotropical	2003-2017	Spanish
Revista Española de Herpetologia Spanish Journal of Herpethology	2003-2007	Spanish
Revista de Biología Tropical International Journal of Tropical Biology and Conservation	1976-2018	Spanish

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Acta Zoológica Mexicana	1984-2019	Spanish
Mexican Zoological Record/Journal		
Biodiversity and Natural History (formerly	2015-2017	Spanish
Boletín de Biodiversidad de Chile)		
Biodiversity and Natural History (formerly		
Boletín de Biodiversidad de Chile)		
Ocelotlán	2003-2012	Spanish
Zoologica Baetica	1990-2015	Spanish
Mammalogy Notes	2014-2017	Spanish
Centros: Revista Cientifica Universitaria	2012-2018	Spanish
Centros: Scientific Journal of the University		
Huitzil: Revista Mexicana de Ornitología	2000-2018	Spanish
Huitzil: Journal of Mexican Ornithology		-
Bioma (El Salvador)	2012-2016	Spanish
Barbastella	2000-2016	Spanish
Quebracho: Revista de Ciencias Forestales	2008-2018	Spanish
Quebracho: Journal of Forest Sciences		-
Etología	1989-2003	Spanish
Ethology		
Historia Natural	2011-2018	Spanish
Natural History		
Arxius de Miscel·lània Zoològica	2003-2019	Spanish
Arxius de Miscel·lània Zoològica		
Agrociencia Uruguay	1997-2017	Spanish
Agroscience Uruguay		
Boletín de la Asociación Herpetológica Española	2004-2018	Spanish
Bulletin of the Spanish Herpetological		
Association		
Ecología Aplicada	2002-2018	Spanish
Applied Ecology		
Cuadernos de Herpetología	2010-2018	Spanish
Herpetology notes		
Orinoquia	2003-2018	Spanish
Butlletí del Grup Català d'Anellament	1981-2001	Spanish
Bulletin of the Catalan Ring Group		
Boletín Chileno de Ornitología	1994-2015	Spanish
Chilean Ornithology Bulletin		
Revista Internacional de Contaminación	1985-2018	Spanish
Ambiental		
International Journal of Pollution		
Revista Mexicana de Ciencias Forestales	2010-2018	Spanish
Mexican Journal of Forestry Sciences		
Boletín de Biodiversidad de Chile	2009-2014	Spanish
Bulletin of Biodiversity of Chile		
Studia Oecológica	1981-1995	Spanish
Grupo Jaragua	1997-2011	Spanish
Ecosistemas y Recursos Agropecuarios	1994-2018	Spanish
Ecosystems and Agropecuary Resources		

Notes and Newsletter of Wildlifers (Taiwan) 野生動物保育彙報及通訊	2005-2012	Traditional Chinese
Journal of Ecology and Environmental Sciences (Taiwan) 環境與生態學報	2008-2012	Traditional Chinese
Fungal Science (Taiwan)	1995-2019	Traditional Chinese
Chinese Bioscience (Taiwan)	2003-2014	Traditional Chinese
生物科學	2003 2011	Traditional Clinicse
Journal of National Park (Taiwan)	1989-2019	Traditional Chinese
國家公園學報	1505 2015	
Taipei Zoo Bulletin	1989-2013	Traditional Chinese
動物園學報		
Journal of Agriculture and Forestry (Taiwan) 農林學報	2000-2018	Traditional Chinese
Journal of the Experimental Forest of National Taiwan University	1987-2019	Traditional Chinese
臺灣大學生物資源暨農學院實驗林研究報告		
Taiwan Journal of Forest Science 臺灣林業科學	1986-2020	Traditional Chinese
Journal of the National Taiwan Museum	2005-2019	Traditional Chinese
國立臺灣博物館學刊	2003 2019	Traditional Chinese
Raptor Research of Taiwan	2003-2016	Traditional Chinese
台灣猛禽研究		
Bio Formosa (Taiwan)	1966-2014	Traditional Chinese
生物學報		
Quarterly Journal of Chinese Forestry (Taiwan) 中華林學季刊	2004-2019	Traditional Chinese
Taiwan Journal of Biodiversity 台灣生物多樣性研究	1999-2019	Traditional Chinese
Zeugma Biyolojik Bilimler Dergisi Zeugma Biological Science	2020	Turkish
Kommagene Biyoloji Dergisi Commagene Journal of Biology	2017-2019	Turkish
Akdeniz Üniversitesi Ziraat Fakültesi Dergisi Mediterranean Agricultural Sciences	2009-2019	Turkish
Deniz Bilimleri ve Muhendisligi Dergisi Aquatic Sciences and Engineering	2007-2020	Turkish
Bağbahçe Bilim Dergisi	2019	Turkish
Journal of Bagbahce Science		
Türk Coğrafya Dergisi	2000-2019	Turkish
Turkish Geographical Review		
Uluslararasi Doga Bilimleri be Biyoteknoloji	2018-2019	Turkish
Dergisi		
International Journal of Life Sciences and		
Biotechnology		

Kastamonu Üniversitesi Orman Fakültesi Dergisi	2001-2019	Turkish
Journal of Kastamonu University Faculty of		
Forestry		
Ege Üniversitesi Ziraat Fakültesi Dergisi	2014-2019	Turkish
Journal of Ege University Faculty of Agriculture		
Artvin Çoruh Üniversitesi Orman Fakültesi	2000-2020	Turkish
Dergisi		
Artvin Coruh University Journal of Forestry		
Faculty		
Doğu Coğrafya Dergisi	2010-2019	Turkish
Journal of Eastern Geography	2010 2019	Turkish
Atatürk Üniversitesi Ziraat Fakültesi Dergisi	2008-2020	Turkish
Atatürk University Journal of Agricultural	2000 2020	Turkish
Faculty		
Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü	2000-2019	Turkish
Dergisi Derman Chiversitesi Ten Bilinneri Enstitusu	2000 2017	Turkish
Journal of Dumlupinar University Institute of		
Science		
Orman Bilimleri Dergisi	2017-2019	Turkish
Turkish Journal of Forest Science	2017-2019	Turkisii
Akademik Ziraat Dergisi	2012-2019	Turkish
Journal of Academic Agriculture	2012-2019	Turkisii
	2000 2010	Turkish
Trakya University Journal of Natural Sciences	2000-2019	TUTKISH
Trakya University Journal of Natural Sciences	2009-2019	Turkish
İstanbul Üniversitesi Orman Fakültesi Dergisi	2009-2019	TUTKISH
(1951-2017; continues in English as Forestist		
from 2018)		
Journal of the Faculty of Forestry Istanbul		
University (continues in English as Forestsist		
from 2018)	2010	m 1:1
Uluslararası Doğu Anadolu Fen Mühendislik ve	2019	Turkish
Tasarım Dergisi		
Journal of International East Anatolia Science		
Engineering and Design	2010	m 1:1
Dicle Üniversitesi Fen Bilimleri Enstitüsü	2019	Turkish
Dergisi		
Journal of Dicle University Natural Sciences		
Enstitute	2010 2015	m 111
Doğanın Sesi	2018-2019	Turkish
Journal of Nature's Voice		
Anadolu Orman Araştırmaları Dergisi	2015-2019	Turkish
Anatolia Journal of Forest Research		
Toprak Bilimi ve Bitki Besleme Dergisi	2012-2019	Turkish
Journal of Soil Science and Plant Nutrition		
Bartın Orman Fakültesi Dergisi	2000-2019	Turkish
Journal of Bartin Faculty of Forestry		
Türk Tarım - Gıda Bilim ve Teknoloji Dergisi	2014-2019	Turkish
Turkish Journal of Agriculture - Food Science		
and Technology		
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Su Ürünleri Dergisi	2000-2019	Turkish
Journal of Fisheries		
Türkiye Ormancılık Dergisi	2000-2019	Turkish
Journal of Turkey Forestry		
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi	2019-2020	Turkish
Journal of Iğdır University Institute of Science		
Visnyk of Lviv University: Biological Series	2005-2019	Ukrainian
Вісник Львівського університету: Серія		
біологічна		
Nature Conservation (2013-2016) [formerly	2013-2016	Ukrainian
Nature Reserves in Ukraine (1995-2012)]		
Заповідна справа (2013-2016) [Заповідна		
справа в Україні (1995-2012)]		
Problems of Bioindication and Ecology	2008-2019	Ukrainian
Питання біоіндикації та екології		
Nature Reserves in Ukraine (1995-2012)	1995-2012	Ukrainian
[changed to Nature Conservation (2013-2016)]		
Заповідна справа в Україні (1995-2012)		
[Заповідна справа (2013-2016)]		

**Appendix 3: Reports (and years) searched** 

Appendix 5: Kep	orts (and years) so	earcheu
Agreement on the		
Conservation of		
Cetaceans of the		Resolutions - Conservation actions (45
Black Sea,	45 numbered	documents, numbered but not in order). Official
Mediterranean	documents	reports not searched
Sea and	documents	(http://www.accobams.org/documents-
contiguous		resolutions/official-reports/)
Atlantic area		
(ACCOBAMS)		
Amphibian and		
Reptile	2021	Dated reports 2012-2021 at https://www.arc-
Conservation	2021	trust.org/technical-reports
(ARC)		
Amphibian	1004 2012	"Froglog (Bulletin of the Amphibian Survival
Survival Alliance	1994-2012	Alliance" magazine: Vol 9 - Vol 104
Back from the	<i>5</i> 1 .	All docs (x5 dated 2021) at this URL
Brink: Shifting	x5 documents	https://naturebftb.co.uk/the-projects/shifting-
Sands	dated 2021	sands/
British Trust for	1001 2016	DEC D 1 D 1 COE
Ornithology	1981-2016	BTO Research Reports: 1-687
Convention on		
the Conservation		All documents 1998-2018 inclusive, including
of Migratory	1998-2018	Techincal Series reports TS no. 1-38 (some
Species of Wild	2010	numbers missing: 6,28-30,36,37)
Animals (CMS)		numeers missing. 6,26 36,36,37)
International		ICES Working Group on Bycatch of Protected
Council for the		Species (WGBYC) Expert Reports: 2011-2018
Exploration of the	2011-2018	inclusive (www.ices.dk/publications/our-
Sea (ICES)		publications/Pages/Expert-Group-Reports.aspx)
International		ICES Working Group on Marine Mammal
Council for the		Ecology (WGMME) Expert Reports: 2003-2018
Exploration of the	2003-2018	inclusive (www.ices.dk/publications/our-
Sea (ICES)		publications/Pages/Expert-Group-Reports.aspx)
International		Occasional Papers, and Technical Reports dated
Society for		1993–2014 searched at
Mangrove	1993–2014	http://www.mangrove.or.jp/english/subpage/publ
Ecosystems		ications.html
IUCN-SSC		
Cetacean	1989-2018	Cetacean Specialist Group Reports. Dated
Specialist Group	1707-2010	reports at https://iucn-csg.org/downloads/
IUCN-SSC		Crocodile Specialist Group Articles. Dated
Crocodile	2006-2018	articles at
	2000-2010	
Specialist Group IUCN-SSC		http://www.iucncsg.org/pages/Publications.html
	2005 2017	Crocodile Specialist Group Reports. Dated
Crocodile	2005-2017	reports at
Specialist Group		http://www.iucncsg.org/pages/Publications.html

IUCN-SSC Freshwater Plant Specialist Group	2016-2018	IUCN-SSC Freshwater Plant Specialist Group Reports at https://www.iucn.org/commissions/ssc- groups/plants-fungi/plants/plants-a-g/freshwater- plant
IUCN-SSC Invasive Species Specialist Group	1995-2013	Aliens: The Invasive Species Bulletin (IUCN) Vol 1 - Vol 33
IUCN-SSC Marine Mammal Protected Area Specialist Group	2017-2018	Marine Mammal Protected Area Specialist Group Reports. Dated documents at https://www.marinemammalhabitat.org/downloa ds/
Joint Nature Conservation Committee (JNCC)	1991-2018	Report no.s 1-627
MedWet	1994-2017	All publications dated 1994–2017 at https://medwet.org/publications/
National Oceanic and Atmospheric Administration (NOAA)	1962-2018	Fisheries Science & Data Resource Reports. Science & Data>Research and Survey Resources (dated) for species categories: whales, dolphins and porpoises, seals and sea lions i.e. not all reports at this link checked (https://www.fisheries.noaa.gov/resources/all-science?title=&species%5B54%5D=54&species%5B1000000066%5D=1000000066&species%5B53%5D=53&field_species_vocab_target_id=&sort_by=created)
Natural England	1991-2018	Reports dated 1991-2018 listed at http://publications.naturalengland.org.uk/categor y/7002 & http://publications.naturalengland.org.uk/categor y/10002 at Sep 2019. Records about Habitat and species group sub-categories; Records about Species; Terrestrial habitats; Farming & land management; Coastal, Freshwater, Marine
NatureScot	2016-2018	Reports 1-945 (2004-2018)
North Atlantic Marine Mammal Commission	1998-2018	NAMMCO outputs (Scientific publication series Vol1(1998)–10(2018) at https://nammco.no/library/
Ramsar	1998-2017	Documents dated 1998-2017 at https://www.ramsar.org/search
Scientific Committee on Antarctic Research (SCAR)	2004-2018	4 dated reports (2014-2018) and list of 7 selected publications (https://www.scar.org/science/eg-bamm/)
Sea Mammal Research Unit (SMRU)	2012-2018	Marine Mammal Scientific Support to Scottish Government reports at http://www.smru.st-

		andrews.ac.uk/research-policy/reports-to- scottish-government/
Sea Mammal Research Unit (SMRU)	1990-2018	SMRU reports for funders at http://www.smru.st-andrews.ac.uk/reports/
Wetlands International	1980-2017	Publications, Case Studies dated 1980–2017 (including "Flamingo: Bulletin of the IUCN-SSC/Wetlands International Flamingo Specialist Group" magazine) at https://www.wetlands.org/resources/
Whale and Dolphin Conservation (WDC)	2001-2018	Dated reports 2001 - 2018 at https://uk.whales.org/policy/wdc-publications-and-reports/

## **APPENDIX 4. Literature reviewed for the Coral Reef Synopsis**

The diagram below will be completed and included in the synopsis document to show the numbers of journals and report series searched, the total number of publications searched within those, and the number of publications that were summarized from each source of literature.

