4.1. Data extraction and statistical analyses to be completed no later than March 1, 2020.

4.1.1. A copy of the data used to inform all analyses including:

4.1.1.1. Population change data and /or IUCN vulnerability metrics for each species (by population where relevant).

Population data from the global population dynamics database:

../figures/gpdd-taxon.pdf

4.1.1.2. Exposure metrics.

4.1.1.3. R code and outputs, including figures and explanations of outcome of statistical analyses.

4.1.2. Documentation of the methods for the data extractions and statistical analyses to ensure reproducibility and transparency.

**Thermal tolerances:**

We obtained thermal tolerance data by searching for papers using Google Scholar (over a period between June 2018 and August 2019), with the search terms:

population, CTmax, acclimation temperatures, thermal limits, heat tolerance, critical thermal maximum, critical thermal minimum, upper thermal tolerance, lower thermal tolerance, thermal tolerance breadth, heat tolerance, cold tolerance, upper lethal temperature limit, lower lethal temperature limit, thermal tolerance window, species temperature tolerance, thermo-neutral zone

**Population abundance data:**

We obtained population abundance data using the Global Population Dynamics Database (using the R package rgpdd), the Living Planet Index (using the R package rlpi) and the IUCN redlist (data downloaded from <https://www.iucnredlist.org/search>). We also searched for data in the COMADRE and COMPADRE datasets (<https://compadre-db.org/>, which we accessed using the R package Rcompadre).