# 99\_other-resources

| **Type** | **Name** | **LURL** | **Embed URL** |  | **Reference** | **Additional\_info** |
| --- | --- | --- | --- | --- | --- | --- |
|  | ConservationInternational/Wildlife-Insights----Data-Migration | <https://github.com/ConservationInternational/Wildlife-Insights----Data-Migration> |  |  |  |  |
|  | camtrapR is a package for camera trap data management in R | <https://github.com/jniedballa/camtrapR> |  |  |  |  |
|  | WildlifeDatasets/wildlife-datasets | <https://github.com/WildlifeDatasets/wildlife-datasets> |  |  |  |  |
|  | brouwern/wildlifeR | <https://github.com/brouwern/wildlifeR>  https://brouwern.github.io/wildlifeR/ |  |  |  | Datasets and tutorials for the analysis of ecological data. |
|  | erikseulean/wildlife | https://github.com/erikseulean/wildlife |  |  |  | Modelling **wildlife** **population** dynamics |
|  | connort2/wildlife\_population\_modeling | https://github.com/connort2/wildlife\_population\_modeling |  |  |  | A collection of code to model and estimate **wildlife** **populations** through marked and/or unmarked data |
|  | percy-batten/MT5767-Wildlife-population-dynamics.- | https://github.com/percy-batten/MT5767-Wildlife-population-dynamics.- |  |  |  |  |
|  | A-Technical-Guide-for-Monitoring-Wildlife-Populations | https://github.com/lukmannhaqeem/A-Technical-Guide-for-Monitoring-Wildlife-Populations |  |  |  |  |
| R-package | SiMRiv | <https://cran.r-project.org/web/packages/SiMRiv/vignettes/SiMRiv.pdf>  https://github.com/miguel-porto/SiMRiv |  |  | Quaglietta, L., & Porto, M. (2019). SiMRiv: An R package for mechanistic simulation of individual, spatially-explicit multistate movements in rivers, heterogeneous and homogeneous spaces incorporating landscape bias. *Movement Ecology*, *7*(1), 11. <https://doi.org/10.1186/s40462-019-0154-8> | SiMRiv: an R package for mechanistic simulation of individual, spatially-explicitmultistate movements in rivers,heterogeneous and homogeneous spacesincorporating landscape bias |
| R-package | R package for analyzing wildlife data with detection error |  |  |  |  | R package for analyzing wildlife data with detection error |
| Data/Database | Movebank | https://www.movebank.org/cms/webapp?gwt\_fragment=page=studies |  |  |  | Movebank for animal tracking data  Might be useful to feed into HR size shiny |
|  | Point count data analysis: How to violate assumptions and get away with it | http://peter.solymos.org/qpad-book/ |  |  |  | Analysis of point-count data in the presence of variable survey methodologies and detection error  This book provides material for the workshop *Analysis of point-count data in the presence of variable survey methodologies and detection error* at the [AOS 2019 conference](https://amornithmeeting.org/) by [Peter Solymos](http://peter.solymos.org/).  The book and related materials in this repository is the basis of a full day workshop (8 hours long with 3 breaks).  Prior exposure to [R](https://www.r-project.org/) language is necessary (i.e. basic R object types and their manipulation, such as arrays, data frames, indexing) because this is not covered as part of the course. Check [this](https://github.com/psolymos/qpad-book/blob/master/_etc/R-basics.pdf) intro. |
| Shiny | Power Analysis Shiny App [Lionel Leston] |  |  |  |  |  |
| Shiny | Simulated Occupancy Model Shiny App [Lionel Leston] |  |  |  |  | --- could incorporate mammal data fairly easily to provide information on occupancy and detection probability  (Guillera-Arroita, 2012) |
| Shiny | ‘WildLift’: An Open-Source Tool to Guide Decisions for Wildlife Conservation | <https://abbiodiversity.shinyapps.io/WildLift/> |  |  |  | **WildLift** can be used to quantitatively compare the **costs** and demographic **benefits** of recovery actions for an iconic threatened species, woodland caribou (*Rangifer tarandus caribou*). While we use caribou as a case study, our approach to developing this management tool is transferable to other threatened taxa.  The tool consists of a generalized matrix population model that is parametrized based on information from the published literature or ongoing experiments. Users can input population parameters (e.g., population size and survival rates) or choose from pre-set caribou subpopulations to estimate changes to populations from implementing recovery actions as described in Nagy-Reis et al. (2020). |
|  | [Mason Fidino's GitHub](https://github.com/mfidino) | GitHub - [mfidino/autoOcc](https://github.com/mfidino/autoOcc): An R package for fitting autologistic occupancy models  [multi-state-occupancy-models](https://github.com/mfidino/multi-state-occupancy-models) (mfidino)  [integrated-occupancy-model](https://github.com/mfidino/integrated-occupancy-model) (mfidino)  [auto-logistic-occupancy](https://github.com/mfidino/auto-logistic-occupancy) (mfidino)  Using Fourier series to predict periodic patterns in dynamic occupancy models <https://github.com/mfidino/periodicity> |  |  |  |  |
| Data/Database | HomeRange: A global database of mammalian home ranges | <https://onlinelibrary.wiley.com/doi/epdf/10.1111/geb.13625>  https://github.com/SHoeks/HomeRange |  |  |  | HomeRange, a global database with 75,611 home- range values across 960 different species of mammals, including terrestrial, aquatic and aerial species |
|  | bSims: Bird Point Count Simulator | https://peter.solymos.org/bSims/ |  |  |  | “The goal of the package is to:  test statistical assumptions,  aid survey design,  and have fun while doing it!  Design objectives:  small (point count) scale implementation,  habitat is considered homogeneous except for edge effects,  realistic but efficient implementation of biological mechanisms and observation process,  defaults chosen to reflect common practice and assumptions,  extensible (PRs are welcome).” |
| R-package | R package for analyzing wildlife data with detection error | https://github.com/psolymos/detect |  |  |  | R package for analyzing wildlife data with detection error |
| Data/Database | PanTHERIA: a species-level database of life history, ecology,and geography of extant and recently extinct mammals | https://ecologicaldata.org/wiki/pantheria |  |  | Jones, K. E., Bielby, J., Cardillo, M., Fritz, S. A., O’Dell, J., Orme, C. D. L., Safi, K., Sechrest, W., Boakes, E. H., Carbone, C., Connolly, C., Cutts, M. J., Foster, J. K., Grenyer, R., Habib, M., Plaster, C. A., Price, S. A., Rigby, E. A., Rist, J., … Purvis, A. (2009). PanTHERIA: a species-level database of life history, ecology, and geography of extant and recently extinct mammals. *Ecology*, *90*(9), 2648–2648. <https://doi.org/10.1890/08-1494.1> | See supplementary material |
| Data/Database | Wildlife camera trapping: a review and recommendations for linking surveys to ecological processes |  |  |  | Burton, C., Neilson, E., Moreira-Arce, D., Ladle, A., Steenweg, R., Fisher, J., Bayne, E., & Boutin, S. (2015). REVIEW: Wildlife camera trapping: A review and recommendations for linking surveys to ecological processes. *Journal of Applied Ecology*, *52*. <https://doi.org/10.1111/1365-2664.12432> | See supplementary material >>> UPLOADED TO GDRIVE (https://drive.google.com/drive/folders/1Gkm7NLqOpAnp5Wl6m4qiMjzRa4geHR4q) |
| Data/Database | Ecological Data Wiki | https://ecologicaldata.org/find-data |  |  |  | The site is a source for finding ecological datasets and quickly figuring out the best ways to use them. The idea is to use the collaborative knowledge and effort of the entire ecological community to compile this information rather than relying on each scientist to contribute information for their own studies. Just think of it as the Wikipedia of ecology data. |
| Shiny for Python | Location distance calculator | https://shiny.posit.co/py/templates/map-distance/ |  |  |  |  |
|  | Animal Home Range Estimation in R | https://www.youtube.com/watch?v=dsPsRPZiOC0 |  |  | Ecological Applications in R, Apr 14, 2021 | Minimum convex polygon (MCP) and kernel density estimation (KDE) methods for calculating animal home range in R. |
|  | Introduction to Species Distribution Modeling Using R | https://www.youtube.com/watch?v=0VObf2rMrI8 |  |  | [weecology](https://www.youtube.com/@weecology), Oct 30, 2020 |  |
|  | Field Ecology - Diversity Metrics in R |  |  |  | Styring, A. (2020, May 4). \*Field Ecology - Diversity Metrics in R” [Video]. YouTube.  <https://www.youtube.com/watch?v=KBByV3kR3IA>  https://www.youtube.com/embed/KBByV3kR3IA?si=RPcG1lFQ-v0Shwaw |  |