# INFO ENTRY

ENTRY NOTES:

* green = does not need to be editted
* yellow = info for the inputter
* ref\_id = “refs\_glossary\_2024-08-09.xls > “references” tab
  + if the reference not present, either add it (if you’re confident that you can follow the format), or add a comment in this doc with the info and I will adjust
* **images – file name in** “refs\_glossary\_2024-08-09.xls > “references” tab
* Ignore everything in the “POPULATE MARKDOWN” section
* Size of columns in tables and text format do not matter; see note on bold and italize below
* Any content with “glue}`` prefix or surrounded by “{{ “ / “ }}” indicates where text will be inserted from the keys
* You may see “<br>” throughout, you can ignore these
* additional formatting notes (optional)
  + \*\***bold**\*\*
  + \*italics\*
* Topic Info
  + If the topic is NOT related to a question, you can leave “question” as NULL
  + “question” here is more for your reference
* Assumptions, Pros, Cons
  + Only for modelling approaches; can ignore otherwise (leave table here)
  + [WILL BE HERE, BUT INSERTED DIRECTLY FROM CSV FILE (THUS NO INPUT NEEDED)]
* Advanced
  + If the topic doesn’t warrant inclusion, you can leave as NULL
* Figures
  + Placeholders here as “filename” can leave in if not <5 images
* Video
  + no “<” before the URL text and a “>” after URL in this case
  + ref\_id in this example is not correct, just for illustrative purposes
* Analytical tools & resources
  + The ref\_id should be included in the reference column (and the full text reference in the master reference file). If you aren’t sure if the reference is in the master doc, add the full text ref as a comment.
  + Please add a “<” before the URL text and a “>” after (e.g., <http://www.somesitelink.com>)
  + Type can be something similar to: Article, App/Program, R package
* References / Glossary
  + items in-text above (IGNORE FOR NOW)
* Notes
  + (future ref / not included in markdown conversion)

## Topic Info

|  |  |
| --- | --- |
| info\_id | mod\_smr |
| question | Headers:  \*\*<font size="4"><span style="color:#2F5496">How does this relate to study design?</font></span>\*\*  \*\*<font size="4"><span style="color:#2F5496">How does that work?</font></span>\*\*  \*\*<font size="4"><span style="color:#2F5496">Why do we care?</font></span>\*\*  > \*\*Select “Unknown” if you’re not sure.\*\* |

## Assumptions, Pros, Cons – if modelling approach

|  |  |  |
| --- | --- | --- |
| Assumptions | Pros | Cons |
| - {{ mod\_scr\_secr\_assump\_01 }}  - {{ mod\_scr\_secr\_assump\_02 }}  - {{ mod\_scr\_secr\_assump\_03 }}  - {{ mod\_scr\_secr\_assump\_04 }}  - {{ mod\_scr\_secr\_assump\_05 }}  - {{ mod\_scr\_secr\_assump\_06 }}  - {{ mod\_scr\_secr\_assump\_07 }}  - {{ mod\_scr\_secr\_assump\_08 }}  - {{ mod\_scr\_secr\_assump\_09 }}  - {{ mod\_scr\_secr\_assump\_10 }}  - {{ mod\_scr\_secr\_assump\_11 }}  - {{ mod\_scr\_secr\_assump\_12 }}  - {{ mod\_scr\_secr\_assump\_13 }}  - {{ mod\_scr\_secr\_assump\_14 }}  - {{ mod\_scr\_secr\_assump\_15 }}  - {{ mod\_scr\_secr\_assump\_16 }} | - {{ mod\_scr\_secr\_pro\_01 }}  - {{ mod\_scr\_secr\_pro\_02 }}  - {{ mod\_scr\_secr\_pro\_03 }}  - {{ mod\_scr\_secr\_pro\_04 }}  - {{ mod\_scr\_secr\_pro\_05 }}  - {{ mod\_scr\_secr\_pro\_06 }}  - {{ mod\_scr\_secr\_pro\_07 }}  - {{ mod\_scr\_secr\_pro\_08 }} | - {{ mod\_scr\_secr\_con\_01 }}  - {{ mod\_scr\_secr\_con\_02 }}  - {{ mod\_scr\_secr\_con\_03 }}  - {{ mod\_scr\_secr\_con\_04 }}  - {{ mod\_scr\_secr\_con\_05 }}  - {{ mod\_scr\_secr\_con\_06 }}  - {{ mod\_scr\_secr\_con\_07 }}  - {{ mod\_scr\_secr\_con\_08 }}  - {{ mod\_scr\_secr\_con\_09 }} |

## Overview

```{figure} ../03\_images/03\_image\_files/00\_coming\_soon.png

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:align: center

```

## Advanced

We have already discussed spatially-explicit density models for completely marked populations (spatial capture-recapture, SCR; see \**2.1.2 Spatial Capture-Recapture*\*) and completely unmarked populations (spatial count, SC; see \**2.2.1 Spatial Count* \*) – but what about the “intermediate” situation, in which only a fraction of a population carries marks? Spatial mark-resight (SMR) models were developed for such scenarios.

First, let’s familiarize ourselves with non-spatial mark-resight models (or simply markresight models). Mark-resight models are similar to capture-recapture (CR; see \**2.1.1 Capture-Recapture* \*) models, but relax CR’s stipulation that all animals in a study population are individually identifiable – that is, that all animals carry unique natural marks, or that all animals are trapped and tagged ({{ ref\_intext\_royle\_et\_al\_2014 }}, {{ ref\_intext\_sollmann\_et\_al\_2013a }}). Instead, mark-resight models need only a subset of the population to be marked (either naturally or from a single trapping-and-tagging event; {{ ref\_intext\_sollmann\_et\_al\_2013a }}). The entire population is then resighted using a “non-invasive” survey technique (i.e., a method that does not require the handling of animals, like an aerial or camera trap survey; {{ ref\_intext\_royle\_et\_al\_2014 }}, {{ ref\_intext\_sollmann\_et\_al\_2013a }}) and population size is calculated using the equation:

```{figure} ../03\_images/03\_image\_files/clarke\_et\_al\_2023\_eqn\_smr1.png

:width: 80px

:align: center

```

where \*𝑚\* is the number of marked animals, \*𝑢\* is the number of unmarked animals and \*𝑝\* is detection probability – the latter of which is determined using data from marked individuals only ({{ ref\_intext\_chandler\_royle\_2013 }}). Dividing \*𝑁\* by the area of the sampling frame 𝐴 produces an estimate of total population density.

{{ ref\_intext\_chandler\_royle\_2013 }}

{{ ref\_intext\_clarke\_et\_al\_2023 }}

{{ ref\_intext\_jimenez\_et\_al\_2021 }}

{{ ref\_intext\_sollmann\_et\_al\_2013a }}

{{ ref\_intext\_rich\_et\_al\_2014 }}

{{ ref\_intext\_royle\_et\_al\_2014 }}

{{ ref\_intext\_whittington\_et\_al\_2018 }}

{{ ref\_intext\_williams\_et\_al\_2002 }}

SMR models integrate spatial information into the mark-resight framework. The result is a hybrid model that combines data from the detection histories of marked individuals, as per SCR, with site-specific counts of unmarked individuals, as per SC ({{ ref\_intext\_royle\_et\_al\_2014 }}). For the remainder of this section, we will discuss camera trap SMR, for which animals are resighted using camera trap arrays.

The first SMR model, developed by Chandler and Royle (2013) and Sollmann et al. (2013a) and now coined “conventional SMR,” models the resighting process only (i.e., ignores the marking process; {{ ref\_intext\_whittington\_et\_al\_2018 }}). In doing so, conventional SMR makes the implicit assumption that marked animals are a random subset of the study population, and thus that 1) marked and unmarked animals are distributed similarly across the landscape, and 2) marked and unmarked animals have equal detection probabilities ({{ ref\_intext\_royle\_et\_al\_2014 }}, {{ ref\_intext\_whittington\_et\_al\_2018 }}). Such assumptions can hold – for example, when a random subset of the population carries natural marks, or when a closed population of animals is trapped and tagged at random locations ({{ ref\_intext\_sollmann\_et\_al\_2013a }}, {{ ref\_intext\_rich\_et\_al\_2014 }}, {{ ref\_intext\_whittington\_et\_al\_2018 }}). These assumptions are violated, however, when animals are trapped and tagged non-randomly (e.g., owing to inaccessibility, rough terrain) before resighting, since the distribution of marked animals will be clustered around trapping-and-tagging sites, and marked animals will have a higher chance of being detected at camera traps near where they were tagged ({{ ref\_intext\_whittington\_et\_al\_2018 }}).

To ease the assumptions and address the limitations of conventional SMR, Whittington et al. (2018) developed generalized SMR, which models the marking and resighting processes separately. The marking sub-model describes where animals were trapped and tagged on the study landscape – that is, how marked individuals are distributed in space ({{ ref\_intext\_jimenez\_et\_al\_2021 }}). Explicitly modelling the marking process allows practitioners to trap and tag animals non-randomly (e.g., using linear or grid trap layouts) without biasing density estimates ({{ ref\_intext\_whittington\_et\_al\_2018 }}). The resighting submodel combines marked individuals’ detection histories, camera trap-specific counts of unmarked individuals and estimates of detection probability to determine population density ({{ ref\_intext\_whittington\_et\_al\_2018 }}).

Practitioners should note that the number of marked animals in a population can influence the precision of SMR studies. The general trend in precision, based on previous SMR studies (both conventional and generalized), is: the more marked animals, the more precise the density estimation (see {{ ref\_intext\_whittington\_et\_al\_2018 }}). Of the four studies compared, only those with 22 or more marked individuals achieved coefficients of variation (CVs) below the accepted threshold for wildlife management (i.e., CV ≤ 0.2; {{ ref\_intext\_sollmann\_et\_al\_2013a }}, {{ ref\_intext\_whittington\_et\_al\_2018 }}, {{ ref\_intext\_williams\_et\_al\_2002 }}).

## Figures

|  |  |  |  |
| --- | --- | --- | --- |
| Image | file\_name | Caption (if applicable) | ref\_id |
| A diagram of a graph  Description automatically generated with medium confidence | {{ ref\_intext\_whittington\_et\_al\_2018 }}\_fig1.png | figure1\_caption | {{ ref\_intext\_whittington\_et\_al\_2018 }} |
| A screenshot of a map  Description automatically generated | SECR\_creemmural.org\_secr.png | figure2\_caption | figure2\_ref\_id |
|  | figure3\_filename.png | figure3\_caption | figure3\_ref\_id |
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|  | figure10\_filename.png | figure10\_caption | figure10\_ref\_id |
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|  | figure12\_filename.png | figure12\_caption | figure12\_ref\_id |
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|  |  |  |  |

Shorten long captions (example)

\*\*Gotelli & Colwell (2011) - Fig. 4.1\*\* Species accumulation and rarefaction curves.

:::{dropdown}

The jagged line is the species accumulation curve for one of many possible orderings of 121 soil seedbank samples, yielding a total of 952 ......

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## Video

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| caption | URL (no < / > before/after URL | ref\_id |
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| vid2\_caption | vid2\_url | vid2\_ref\_id |
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| vid15\_caption | vid15\_url | vid15\_ref\_id |
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## Shiny

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## Analytical tools & resources

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| resource15\_type | resource15\_name | resource15\_note | resource15\_url | resource15\_ref\_id |

## References / Glossary

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## Notes

# POPULATE MARKDOWN \_2024-09-14 - MODS

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(i\_)=

# {{ name\_mod\_scr\_secr }}

::::::{dropdown} Assumptions, Pros, Cons

:::::{grid}

::::{grid-item-card} Assumptions

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- {{ mod\_scr\_secr\_assump\_02 }}

- {{ mod\_scr\_secr\_assump\_03 }}

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### :::::::{tab-set}

#### ::::::{tab-item} Overview

\*\*{{ term\_ }}\*\*: {{ term\_def\_ }}

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#### ::::::

#### ::::::{tab-item} Advanced

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#### ::::::{tab-item} Visual resources

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figure9\_caption

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Check back in the future!

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#### ::::::{tab-item} References

Refs

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