27 March 2023 – Actions Required for the Marine Toolkit book:

Jono:

* In script / rmd file “01-TrackingData-Introduction-Visualise”, need to properly source and cite Yelkouan Shearwater tracking data example from BIOM
  + Get this data uploaded to SBTD.
* In script / rmd file “01-TrackingData-Introduction-Visualise”
  + Need to source references for:
    - Animal movement general
    - Seabird movement
    - GPS, PTT, GLS device background
* In script / rmd file “01-TrackingData-Introduction-Visualise”
  + Section: Lay introduction to GPS, PTT, GLS devices
    - Provide background text
    - Consider relevant animation showcasing different device errors.
    - Consider relevant figures showcasing different device types
* In script / rmd “02-TrackingData-SamplingStrategy”
  + References for numbers of tracks, years of tracking, etc
    - Martin Beal paper
* In script / rmd “02-TrackingData-SamplingStrategy”
  + Complete section for number of years of tracks for IBA / KBA identification
    - Discuss with Charlotte
* In script / rmd “03-TrackingData-Visualisation-AllTracks”
  + Need to create figure showcasing Lastovo SPA and source population for Yelkouan Shearwaters
* In script / rmd “03-TrackingData-Visualisation-AllTracks”
  + Provide advice on suitable file structure when storing tracking data
  + [As a guide, the following file structure can support efficient data management]
  + Consider: is there something in the biologging data standards we should be considering?
* In script / rmd “03-TrackingData-Visualisation-AllTracks”
  + [Example R code for reading in raw tracking data is provided in the Appendix]
* In script / rmd “03-TrackingData-Visualisation-AllTracks”
  + [Decide on best way to show example datasets – either screen shot images? Or as example data files? Or perhaps as both. Maybe just taking subsets of the data as required.]
* In script / rmd “03-TrackingData-Visualisation-AllTracks”
  + > Visualising tracking data from individual animals can help you understand which data you might remove, or which data you might try and salvage.
    - Need to provide examples of tracks you would remove, and which tracks you might try and salvage
* In script / rmd “03-TrackingData-Visualisation-AllTracks”
  + ### When to remove or salvage data from an individual
  + [Examples to be included]
* In script / rmd “03-TrackingData-Visualisation-AllTracks”
  + ## Save all the location data as a plot
  + [A simple plot to look at all the point location data]
  + Could make a much better plot with scale bar and north arrow – consider options from tmap and code used for Antarctica project.
* In script / rmd “03-TrackingData-Visualisation-AllTracks”
  + ## Save individual tracks as static plots
  + [A simple plot to look at all the point location data]
  + Could make a much better plot with scale bar and north arrow – consider options from tmap and code used for Antarctica project.
  + Add: colours denoting start and end points of tracks. (**added**)
  + Could add better legend.
* In script / rmd “04-TrackingData-Visualisation-IndividualTracks”
  + [What other options exist to correct colony location data where required?]
* In script / rmd “04-TrackingData-Visualisation-IndividualTracks”
  + \*\*What does tripSplit do:\*\* [update text from track2KBA manuscript]
* In script / rmd “04-TrackingData-Visualisation-IndividualTracks”
  + [One way of exploring the trips outputted for individually tracked animals would be to rapidly review summary plots for each trip, showing start, journey, and end points, where the point locations are also joined together with a line. Should consider inlcuding this plotting option. Perhaps also with option of specifying a vector of relative individuals.]
* In script / rmd “01-install-r-packages”
  + [After we build the entire toolkit, we must find a way of checking / listing all the names of the \*\*KEY\*\* packages we used and their associated versions. Below outlines a way of supporting people to test whether they have the right version of a package on their machine].
  + [Will need to populate the dataframe packages.for.toolkit properly after we build the toolkit]

Beth

* I’ve started using [square brackets] around parts of the text that are unfinished draft notes.