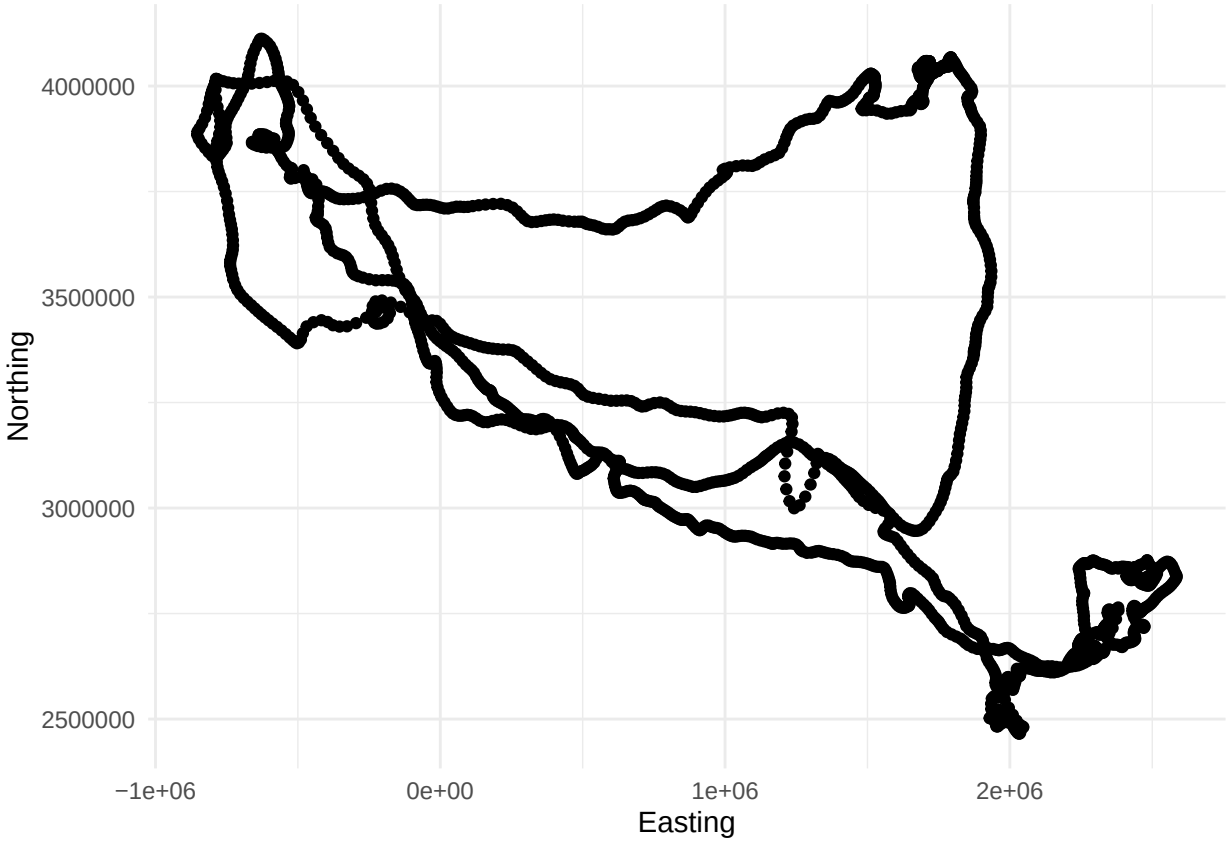
Movement Report for mq4-Alice-00

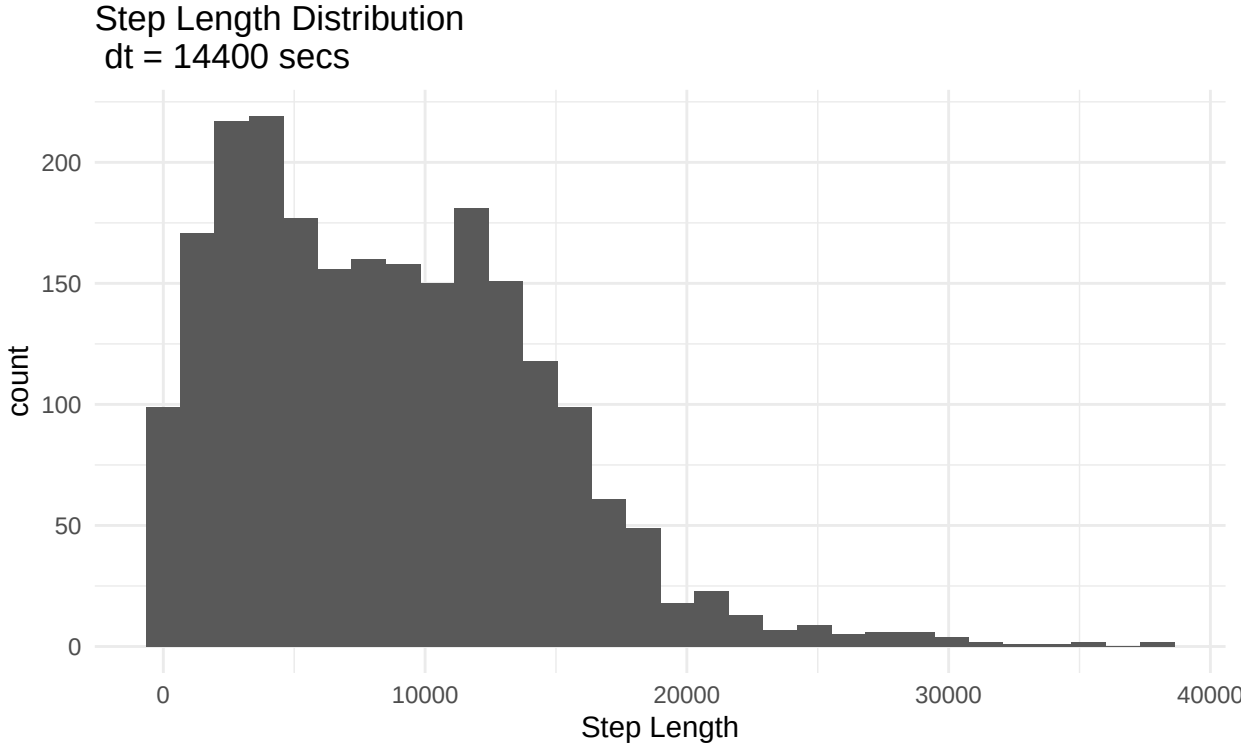
created with pkg stmove

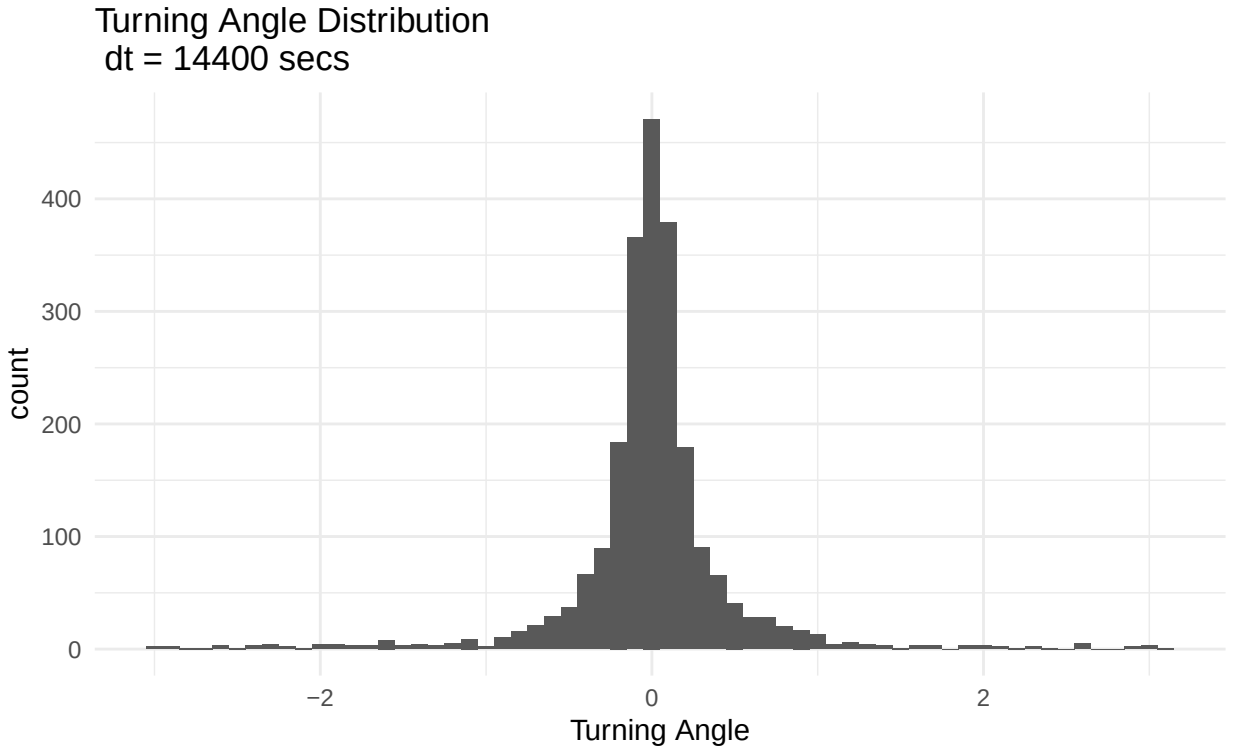
07 April, 2021

Visualize the trajectory



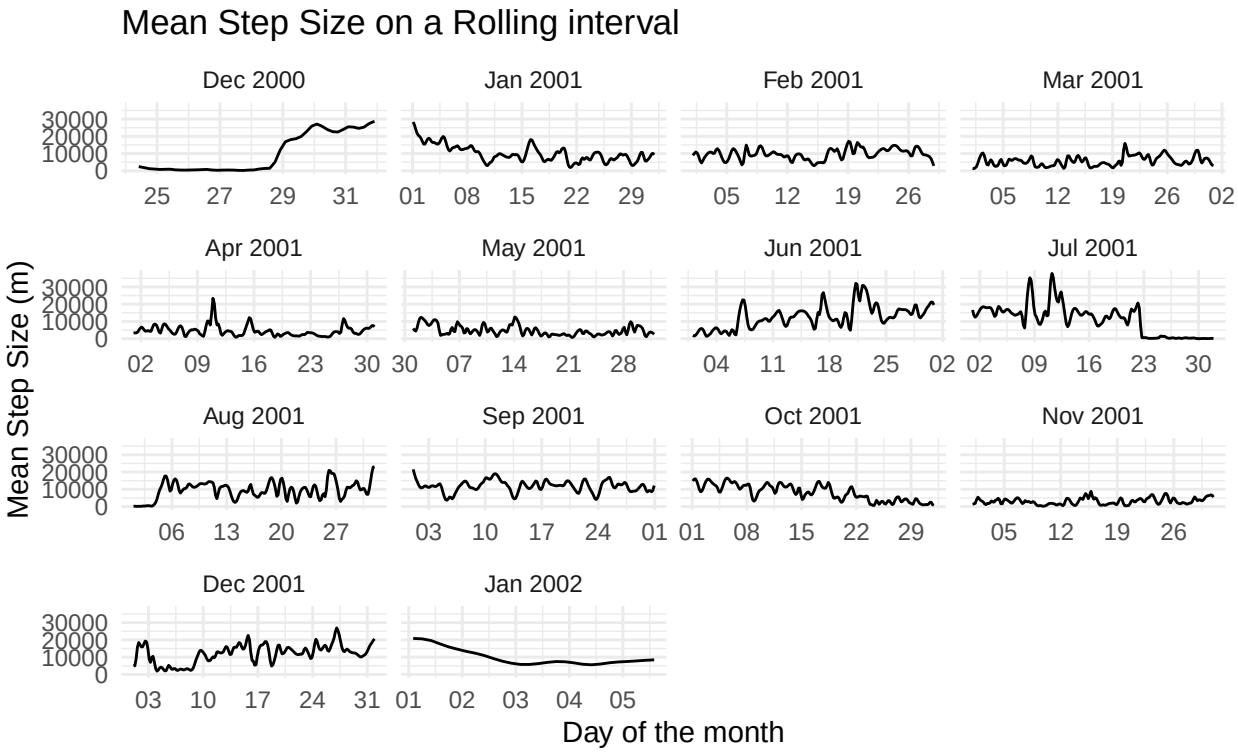
Step Length & Turning Angle Distributions:

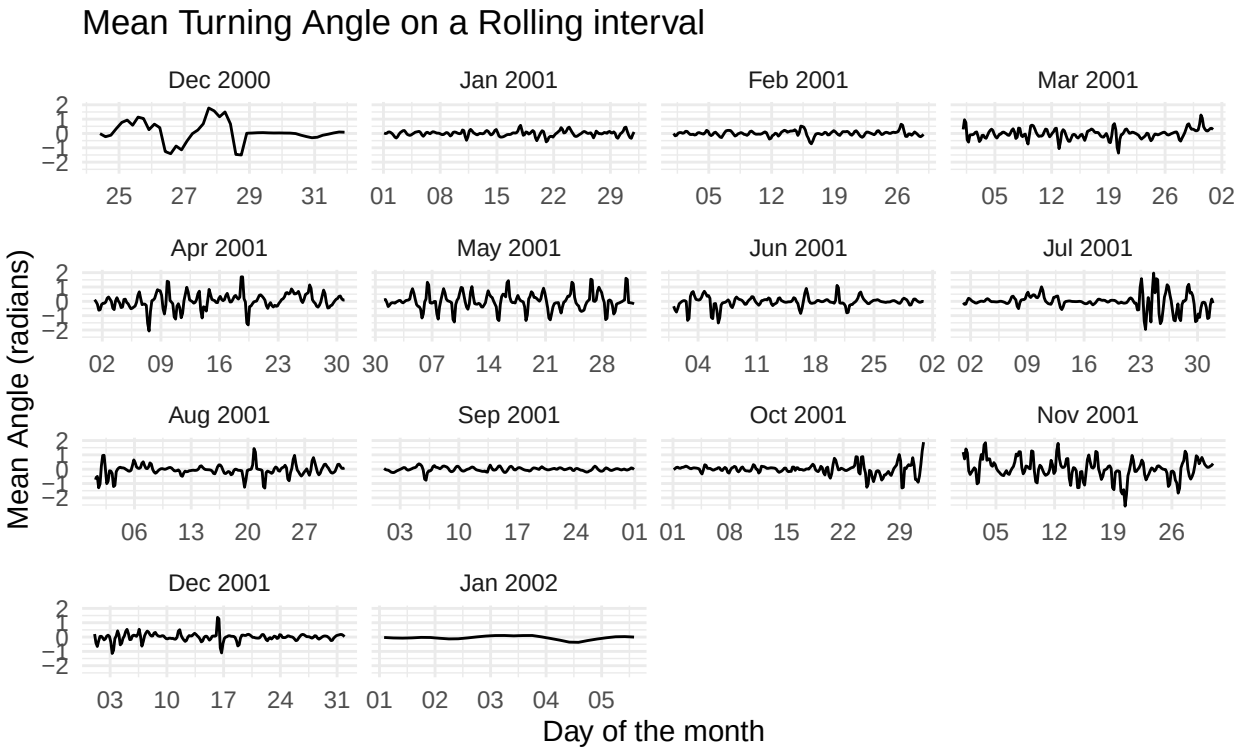


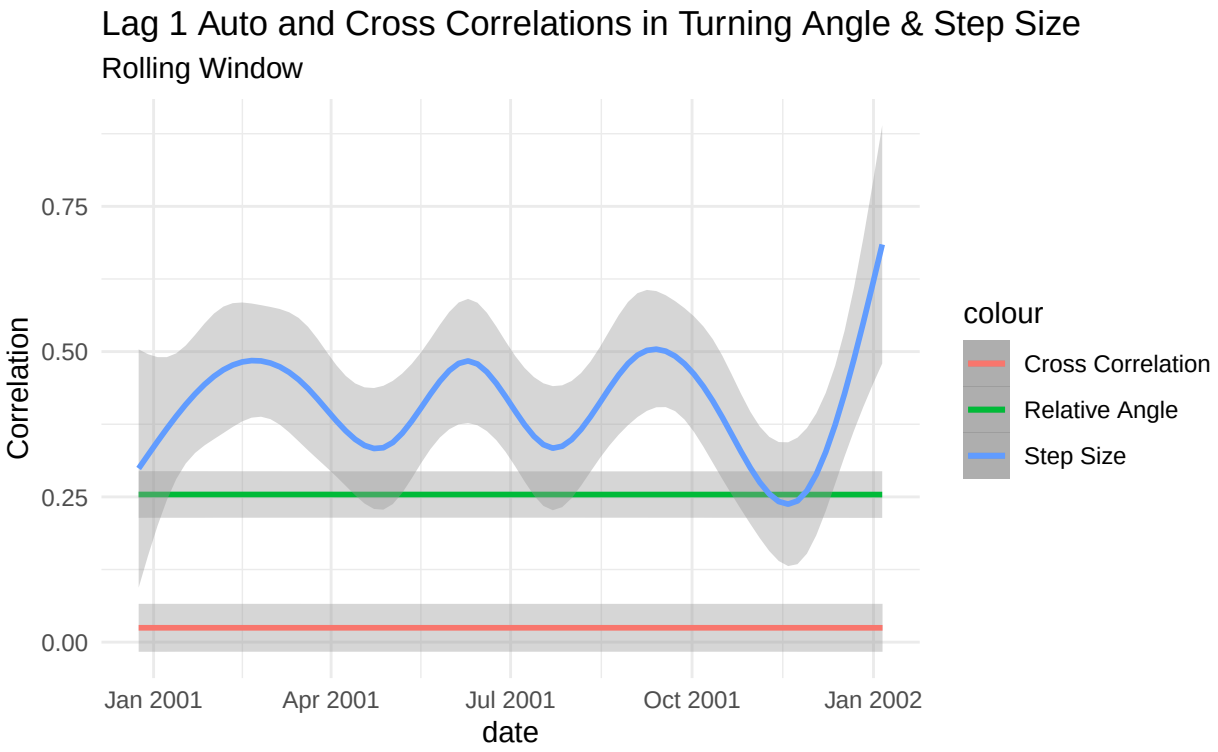


Basic Statistical Summary

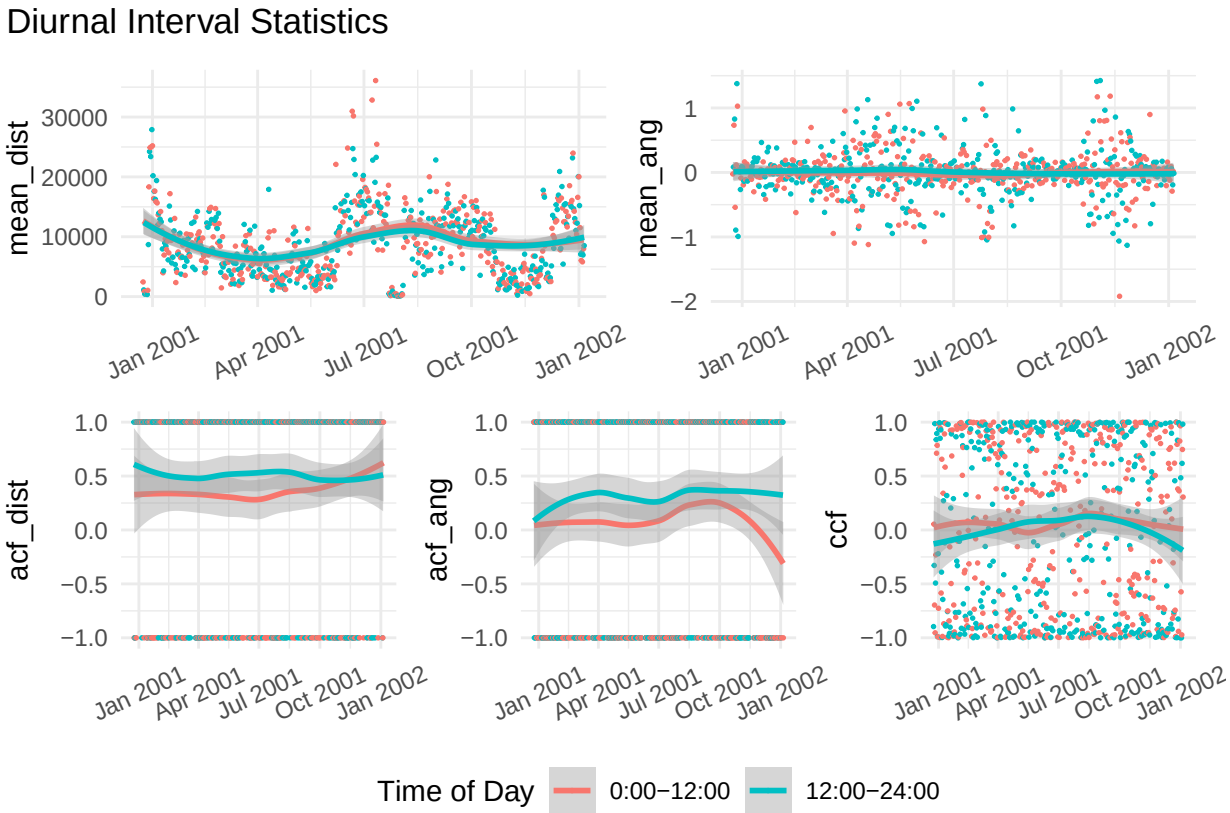
Fine Scale Sliding Window



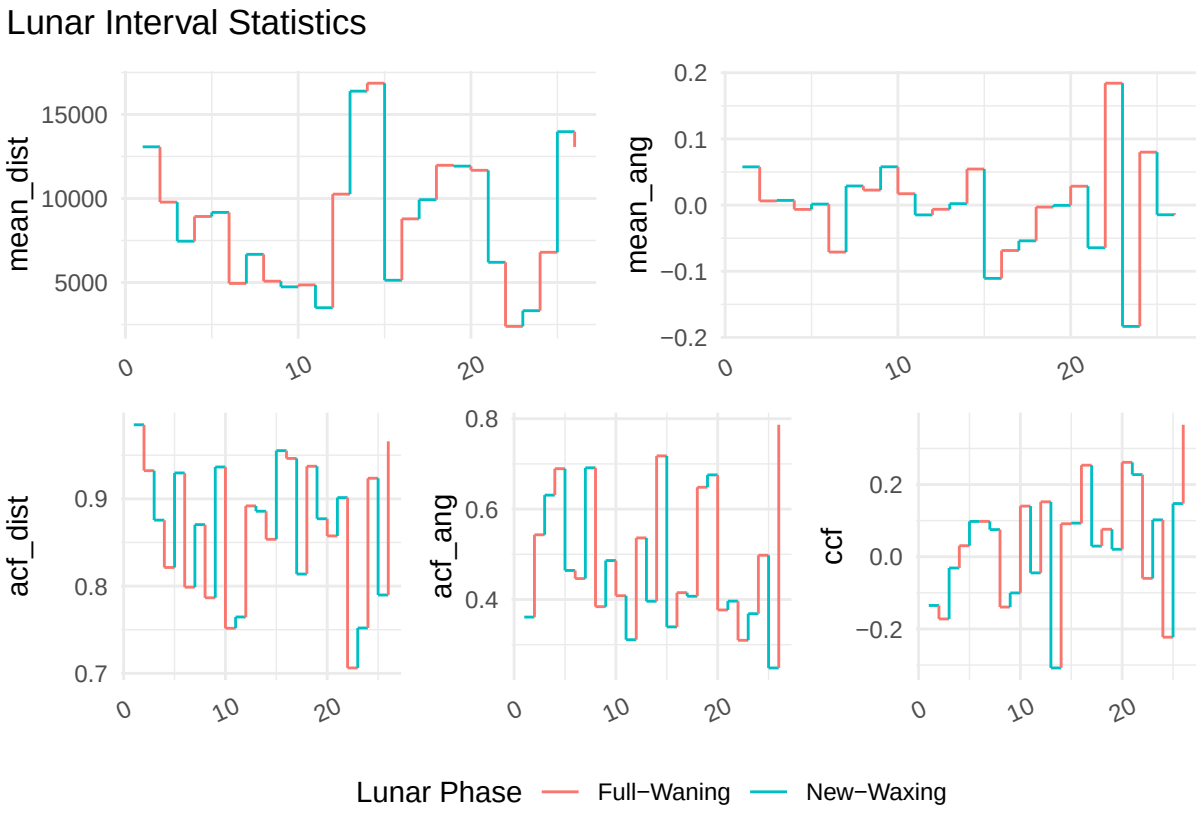




Diurnal Cycle

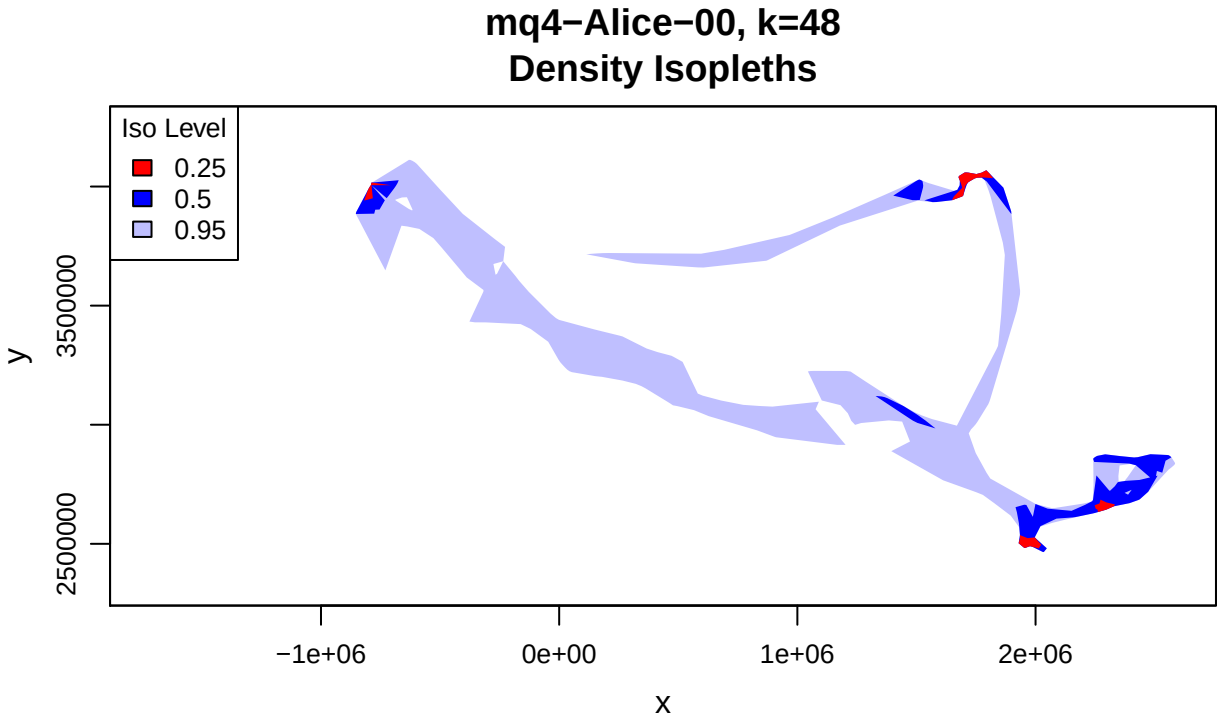


Lunar Cycle



Space Use Constructions

A k-LoCoh hull set



These isopleths were constructed from 2266 hulls sorted by area. Isopleth levels indicate the proportion of total points enclosed. Hulls created from 2266 locations of mq4−Alice−00 using the Fixed−k method (k=48, s=0, kmin=0).

Suggested Next Steps

This report provides a first-pass look at your trajectories and patterns you see here may be further investigated in any number of ways. Below we suggest some common next questions and steps and associated packages that could help you begin to address them. Also see suggestions from Seidel et al. 2019, Appendix C of Seidel et al. 2018, or tutorials from the 2018 Movement Ecology in R workshop hosted here.

- Habitat Selection Analysis
  - the `sf` package offers tools for ready manipulation of spatial vector data.
  - the `raster` and `velox` packages offer tools for raster data manipulation.
  - the `lme4` package is useful for fitting generalized linear models with fixed or random effects
- Hidden Markov Models can be fit or Behavioral Change Point Analysis done with tools from:
  - `momentuHMM`
  - `moveHmm`
  - `bcpa`
- Dynamic Interaction between individuals may be explored use
  - `wildlifeDI`

Also consider the numerous analyses made available by the extentive "adehabitat" packages: `adehabitatLT`, `adehabitatHR`, `adehabitatMA`, `adehabitatHS` and their indepth vignettes.