Hi All –

We’re looking forward to seeing you at the 2024 PIT Tag Workshop at Skamania Lodge! You’re receiving this e-mail because you expressed interest in attending the “Hands-On Wrangling Data with PITcleanr” training session 1:30 – 4:30 pm on Thursday afternoon. The afternoon hands-on training follows a morning presentation “Wrangling and Preparing PIT Tag Data Using PITcleanr” led by Dr. Kevin See at 9:20 am Thursday. The morning presentation will provide an overview of the purpose of the PITcleanr R package and the various functionality that it provides. During the afternoon training, we’ll guide attendees through importing and condensing data, mapping stream networks, introducing upstream or downstream directionality, applying essential filters, and preparing data for advanced analysis, such as transforming observations into capture history matrices. Finally, although the focus of the workshop is on preparing data and NOT on analysis (e.g., abundance, survival, timing, etc), we will provide some examples of data summaries and applications. Attendees should have some background in R; that said, we will have a couple folks available to walk around and assist attendees if issues arise.

**INSTALLING PITcleanr**

Before the workshop, it would be helpful if everyone can install PITcleanr on their laptops. Directions for installation can be found in the README on the [PITcleanr GitHub site](https://github.com/KevinSee/PITcleanr). During installation, please use the build\_vignettes = TRUE argument in which case all package vignettes can then be viewed using the browse\_vignettes(package = “PITcleanr”) command. Please be aware that installing PITcleanr with vignettes may take several minutes. Also, PITcleanr requires at least R version 4.0.2, so please be sure to update to that version or newer. For any questions on issues or troubleshooting please feel free to reach out to myself at [mikea@nezperce.org](mailto:mikea@nezperce.org).

**PITcleanr WEBSITE**

If you’d like to familiarize yourself with PITcleanr prior to the workshop please feel free to peruse the [PITcleanr website](https://kevinsee.github.io/PITcleanr/index.html) which includes all of the [vignettes](https://kevinsee.github.io/PITcleanr/articles/index.html) as well as documentation for all [functions](https://kevinsee.github.io/PITcleanr/reference/index.html) provided in PITcleanr.

**BRING YOUR OWN DATA**

We encourage attendees to bring their own data to work with, although we will provide example datasets, some of which are available in the PITcleanr R package. At a minimum, bring a PIT tag list (e.g., a mark group you’re interested in for analysis)… or better yet, bring a complete tag history for your fish of interest. Directions for querying a complete tag history in PTAGIS for use in PITcleanr can be found [here](https://kevinsee.github.io/PITcleanr/articles/read_in_data.html#complete-capture-history) in the “Complete Tag History” section.

Again, please feel free to reach out to me, Mike Ackerman, at [mikea@nezperce.org](mailto:mikea@nezperce.org) with any issue and questions prior to the workshop and I’ll do my best to help.

Look forward to seeing everyone in Skamania! Cheers,

Mike