Steps to prepare for the workshop & to make sure your computer is ready to go!

1. Download latest versions of RStudio and R from here:
   1. <https://cloud.r-project.org/>
   2. <https://www.rstudio.com/>
2. Download the data and materials for this workshop. There are two options here:
   1. You can download the repository from <https://github.com/jmsigner/workshop_2019_tws/archive/master.zip>and unzip it to a known location on your computer.
   2. If you are familiar with working with github you can simply clone the repository with: git clone git@github.com:jmsigner/workshop\_2019\_tws.git
3. Open Rstudio and create a project associated with this directory. File -> New Project,

then select “Existing directory”, find the workshop\_tws\_2019 directory on your computer and click OK.

1. Install the following packages (with dependencies) by executing the following command:

install.packages(c("knitr", "lubridate", "sf", "raster", "move", "amt",

"glmmTMB", "tidyverse"), dep = TRUE)

1. Open the script named “scripts/test\_vignette.r”. In RStudio, choose File -> Knit Document. Select html and click “Compile Document”. It took my computer 2.5 minutes to run everything (but, may take longer on your computer depending on its specs). Please check over the resulting html file and send a copy to [bsmity13@gmail.com](mailto:bsmity13@gmail.com). If you encounter problems, please contact [jsigner@gwdg.de](mailto:jsigner@gwdg.de).