

TWS Workshop 2019: Getting Started

Avgar, Fieberg, Signer

September 20, 2019

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 (**you should be working with R \geq 3.5 and RStudio \geq 1.2**):
 - a. <https://cloud.r-project.org/>
 - b. <https://www.rstudio.com/>
2. Download the data and materials for this workshop. There are two options here:
 - a. 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.
 - b. If you are familiar with working with git and github, you can simply clone the repository with:

```
git clone https://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.
4. Install the following packages (with dependencies) by executing the following command:

```
install.packages(c("knitr", "lubridate", "sf", "raster", "move", "amt",  
                  "glmmTMB", "tidyverse", "tidyr", "here"), dep = TRUE)
```

5. 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 (**scripts/test_vignette.html**) and send a copy to bjsmith@aggiemail.usu.edu. If you encounter problems, please contact jsigner@gwdg.de.