TWS Workshop 2019: Getting Started

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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 >= 3.5 and RStudio >= 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:

```r
install.packages(c("knitr", "lubridate", "sf", "raster", "move", "amt",
                   "glmmTMB", "tidyverse", "tidyr"), 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.