Workshop Packages for
Short Course
Curtin
St George's Terrace, Perth, WA

Guy Nason

April 2023

1 Required Packages

1.1 Packages on CRAN

We will need the following packages for our workshop practical sessions: `locits, zoo, forecast, tibble, lpacf, BootWPTOS` and `forecastLSW`. All but the last one are on CRAN.

If you need to install these packages (or get the latest versions), then type:

```
install.packages( c("locits", "zoo", "forecast", "tibble",
    "lpacf", "BootWPTOS"))
```

1.2 Packages on Github

One required package is (currently) only on GitHub.

If you don't already have `devtools` installed type

```
install.packages("devtools")
```

This might also install a lot of dependent packages. Then type

```
library(devtools)
```

```
devtools::install_github("rkillick/forecastLSW")
```

This will install the `forecastLSW` library.

2 Loading libraries

Once install, you can load all necessary libraries by

```
library("locits")
library("zoo")
library("forecast")
library("tibble")
library("lpacf")
library("forecastLSW")
library("BootWPTOS")
```

3 Loading Data

We also need a few data files for examples. Please type:

```
load(url("https://www.ma.imperial.ac.uk/~gnason/Session4.RData"))
```

Please check that the `\tilde` is typed correctly, especially if you cut and paste.

To check you have the data correctly loaded type

```
ls()
```

and you should see these data objects:

```
> ls()
[1] "BabyECG"        "BabySS"        "boris.well.zoo" "Earthquake"
[5] "oxford.rain"
```