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# Unboxing Seafords

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# Unboxing Seafords

Prerequisite : R software (min 3.5.0) – option : Rstudio (Windows)

Download the archive files from the website:

[http://www.meteo.fr/temps/domtom/La\\_Reunion/meteoreunion2/climatologie/SWIO/swiocof-new.html](http://www.meteo.fr/temps/domtom/La_Reunion/meteoreunion2/climatologie/SWIO/swiocof-new.html)

SEAFORDS-global-v2109.tar.gz : new version of the software

SEAFORDS-DATA-Test.tar.gz : starting dataset (for a first install)

Extract the archives in your working directory:

## SEAFORDS-DATA

DATA\_XXX [ XXX : Country name ]

DATA\_TST

DATA\_gridded

ERA5\_DATA

FORECAST\_DATA

HINDCAST\_mod\_ltx\_DATA [ mod : Model name, x : lead-time ]

## SEAFORDS-global-v2109

OUTLOOK

SHP

SRC

TOOLS

fic\_env.R

install\_packages\_seafords.R

When using Linux this file should be modified in order to insert the path of your working directory

R script to execute (source) in order to download needed packages

Preliminary tests (checking everything is OK):

- in **TOOLS** execute successively:

**ACP.R**

**Composites.R**

**YearlyAnalysis.R**

Check the presence of resulting images in **TOOLS/OUTPUT**

- in **OUTLOOK** execute :

**Seasonal\_Outlook.R**

Check the presence of resulting images in **OUTLOOK/OUTPUT**

**To start working you should download the up-to-date data (gridded, ERA5 reanalysis and GCM forecasts) from the website.**