Dear students,

For this bonus lab we ask you to

1. Install Miniconda 3.7 for Windows or Mac (depending on which OS you have).

<https://docs.conda.io/projects/conda/en/latest/user-guide/install/index.html>

Do the installation with the default setting without changing anything.

1. To install *Jupyter Notebook, ipleaflet, scipy*, *matplotlib*, xlrd, xarray, requests and netcdf please open Anaconda Prompt and type:

*conda install -c conda-forge notebook*

and hit enter. When asked within the terminal if you want to procees, type y and hit enter.

Repeat one line at a time with:

*conda install -c conda-forge ipyleaflet*

*conda install -c conda-forge scipy*

*conda install -c conda-forge matplotlib*

*conda install -c conda-forge xlrd*

*conda install -c conda-forge xarray*

*conda install -c conda-forge requests*

*conda install -c conda-forge netcdf4*

All necessary software is now installed on your computer. Please make sure to create a folder called Jupyter in your C:\ or D:\ drive. This is where we ask you to store all the files we provided.

The next step involves telling Anaconda/Jupyter Notebook where you have you files and in which folder you want to work and safe your progress.

You move up the folder hierarchy towards C:\ by typing

*cd..*

Once you reached all the way up to C:\ type:

*cd Jupyter*

This brings you directly to the folder that contains all the data you downloaded for this lab (C:\Jupyter). To open Jupyter Notebook type:

*Jupyter notebook*

**Now an extra window or tab in your browser should have opened. Please double-click on “Jupyter\_Notebook\_with\_ipyleaflet.ipynb” to open the Jupyter Notebook we created for you. You will find all further instructions and info within the Jupyter Notebook.**

We hope you will enjoy this bonus lab!

PS: If you need to change the drive, go all the way up to C:\ and then use the following command:

*cd /d D:\Jupyter*

to switch from drive C:\ to D:\Jupyter