International Institute for
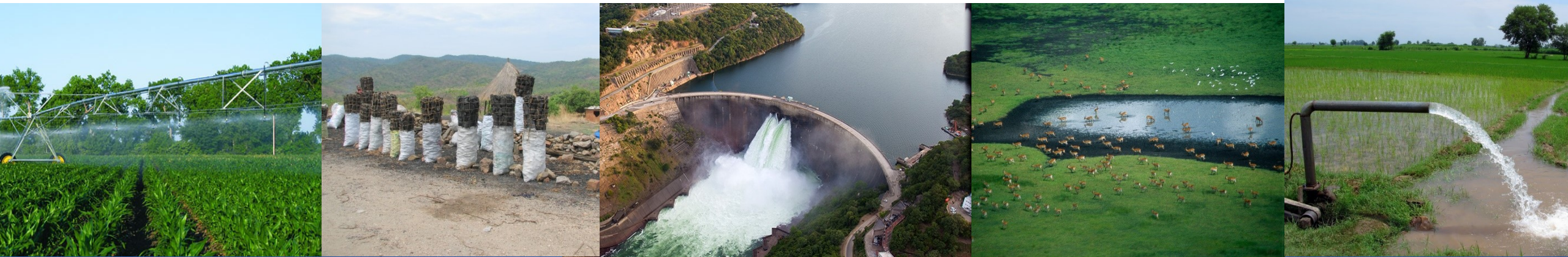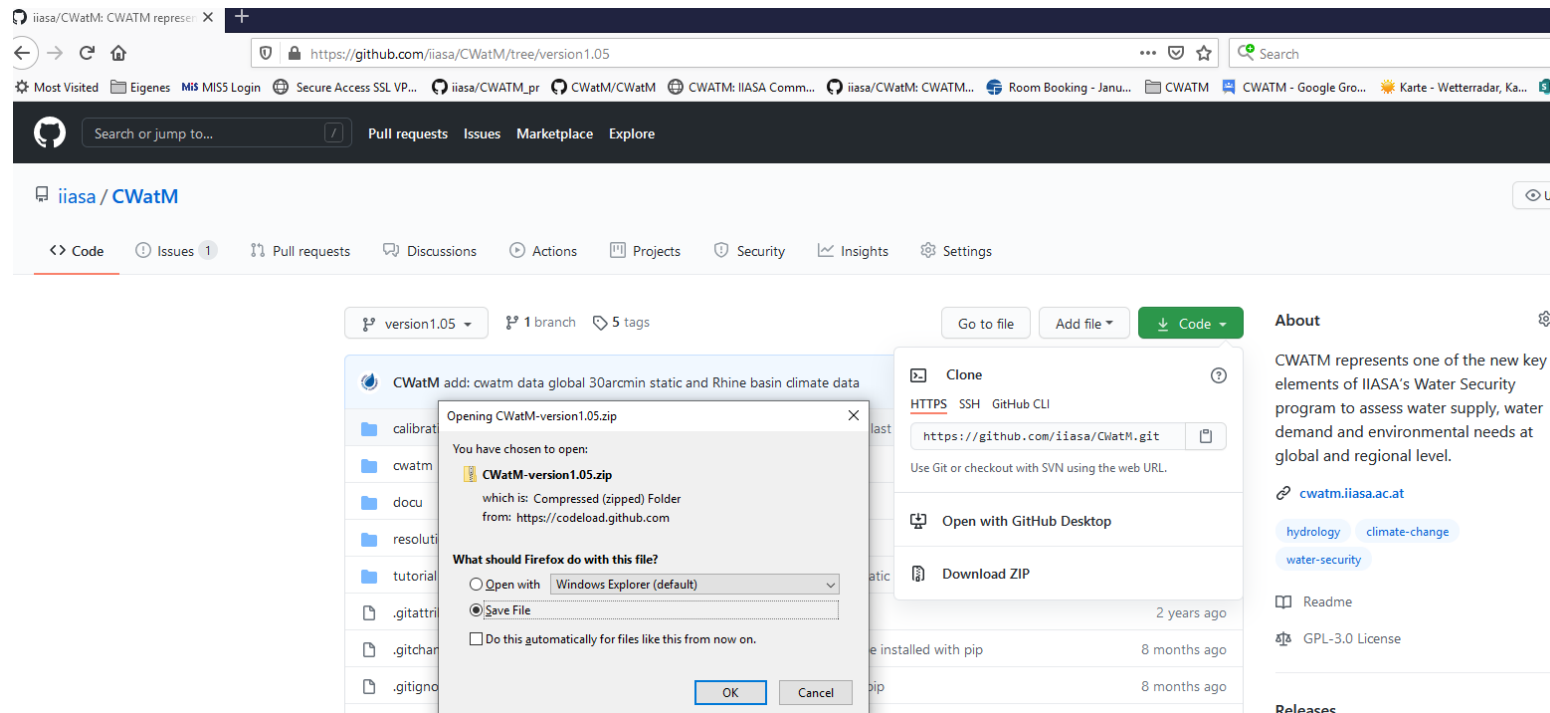Applied Systems Analysis
IIASA www.iiasa.ac.at

Tutorial for CWatM

International Institute for Applied Systems Analysis
Research Scholars at
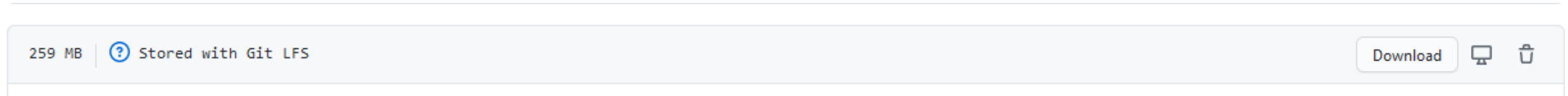Water Security Program

1. Setting up the tutorial from Github

- Go to https://github.com/iiasa/CWatM

- Download `Code` with **Download ZIP**

- and unzip it somewhere on your computer (does not matter where)

2. Downloading the large files stored as GitHUB LFS

- Go to https://github.com/iiasa/CWatM/tree/version1.05/tutorial/CWATM_model
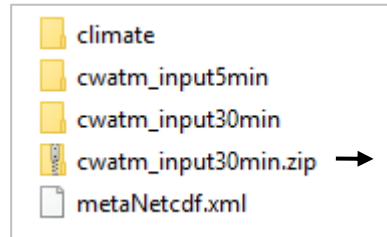
- Click on CWatMexe.zip

- Download file

- Copy file to ../tutorial/CWATM_model

- Extract .zip files
  with "Extract here"
  which generates the folder "CWatM" and "CWatMexe"
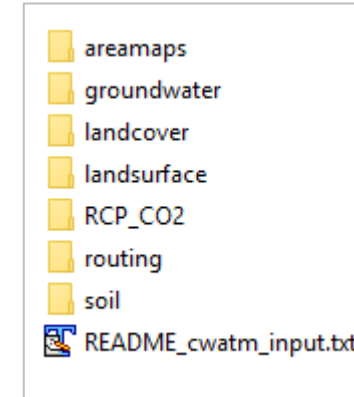
3. Downloading the large files stored as GitHUB LFS

- Go to https://github.com/iiasa/CWatM/tree/version1.05/tutorial/CWATM_data

- Click on **cwatm_input30min.zip** and download file

- Copy file to ../tutorial/CWATM_data:

- Extract .zip files
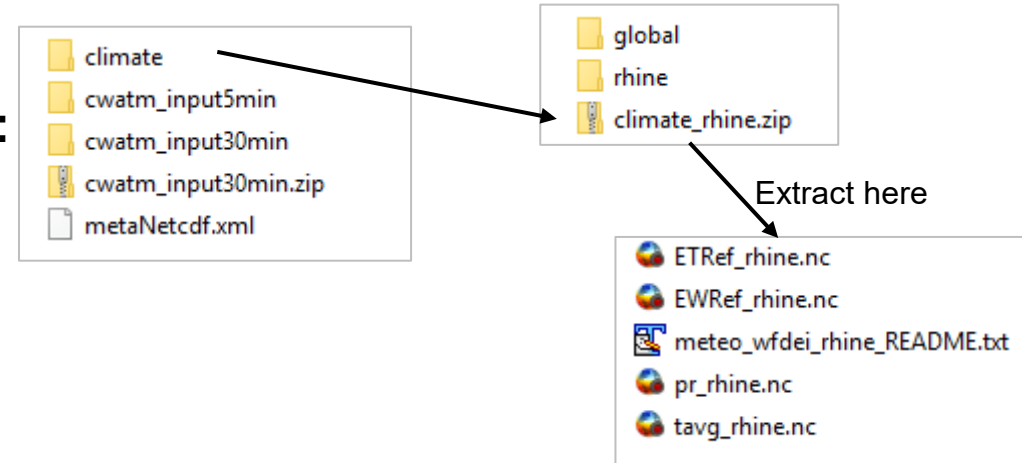
  with "Extract here"

  which generates the folder "cwatm_input30min"

4. Downloading the large files stored as GitHUB LFS

- Go to https://github.com/iiasa/CWatM/tree/version1.05/tutorial/CWATM_data/climate

- Click on **climate_rhine.zip** and download file

- Copy file to ../tutorial/CWATM_data/climate:

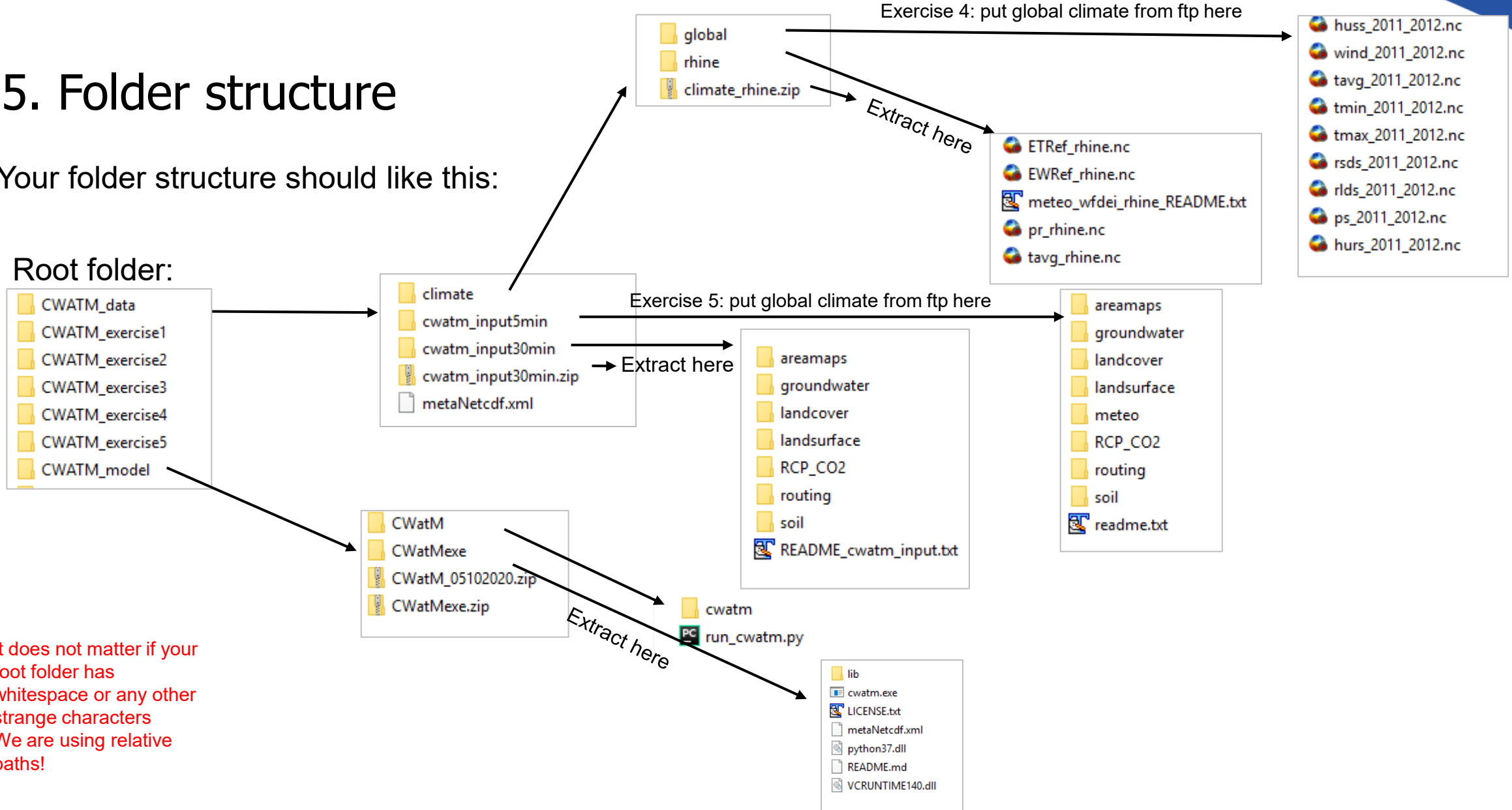- Extract .zip files

  with "Extract here"

  which generates the folder "rhine"

Hans on CWatM

5. Folder structure

Your folder structure should like this:

Root folder:

It does not matter if your root folder has whitespace or any other strange characters
We are using relative paths!

Exercise 4: put global climate from ftp here

Exercise 5: put global climate from ftp here

Extract here

Problems

Most problems come from different file systems, folder structures

We try to set up everything with relative path.

1. Please make sure that your folders have a similar structure like in slide 3 in cwatm_exercise1.ppt

2. The settings file has a part:

```
[FILE_PATHS]
PathRoot = ../cwatm_data                          ../    jumps back to the previous folder
PathOut = ./output                                ./     uses the folder output in the same folder as the settings file or the directory you are in
PathMaps = $(PathRoot)/cwatm_input30min
PathMeteo = $(PathRoot)/climate/rhine
```

3. If this is not working you can use also absolute path (also with white space)
```
PathRoot = C/root directory/second.root/cwatm/cwatm_data
```

4. If you execute cwatm you can also use absolute path
instead
```
../CWATM_model/CWatMexe/cwatm.exe settings_rhine30min.ini –l
"C/root directory/second.root/cwatm/CWATM_model/CWatMexe/cwatm.exe" settings_rhine30min.ini –l   (mind the " if there are white spaces)
```

5. Some other errors we address in:
https://cwatm.iiasa.ac.at/tutorial.html#test-the-python-model-version