

BEEF CH2018



Install instructions (Linux):

First, we change in the directory containing the model:

1 `cd beef_ch2018_venv`

In this directory, a Python virtual environment is created. This step is optional, but it ensures that the Python packages do not infer with other Python scripts.

2 `python3 -m venv beef2018`

The virtual environment is activated with the following command:

3 `source beef2018/bin/activate`

Next, we can install the Python packages, specified in requirements.txt, using pip:

4 `pip install -r requirements.txt`

Afterwards, the pyheat library (currently not in the Python index), can be installed:

5 `git clone git@github.com:rbuffat/pyheat.git`

`cd pyheat`

`python3 setup.py install`

`cd ..`

After this steps, using pip the installed packages can be queried:

`pip freeze`

The output should look as follows

```
affine==2.3.0
attrs==19.3.0
click==7.1.2
click-plugins==1.1.1
cligj==0.5.0
Cython==0.29.21
Fiona==1.8.13.post1
msgpack-python==0.5.6
munch==2.5.0
numpy==1.19.0
packaging==20.4
Pint==0.14
psycpg2==2.8.5
pyheat==0.3.dev0
pyparsing==2.4.7
pyproj==2.6.1.post1
rasterio==1.1.5
scipy==1.5.1
```

```
Shapely==1.7.0  
six==1.15.0  
snuggs==1.4.7  
umsgpack==0.1.0
```

If everything worked, the model can now be configured by editing `heatmodelplus_ch2018.py`.

Afterwards, the model can be run with the following command:

```
python3 heatmodelplus_ch2018.py
```

This only works within the virtual environment! If a new session is started, the virtual environment must be first activated:

```
source beef2018/bin/activate
```