

NutShell 5.1 main functions (1 Oct 2018)

The screenshot displays the NutShell 5.1 interface with various components and callouts:

- Go to/Set/Delete Work Directories**: Points to the directory path `D:/data/StLucia/data/flood/rain` in the command window.
- Script edit options (Alt-U/I/3/4)**: Points to the `Edit` menu.
- Run/Pause/Stop current script**: Points to the `Run` menu.
- Online context sensitive Help (Ctrl-F1)**: Points to the `Help` menu.
- List of Work Directories**: Points to the directory tree on the left.
- Argument substitution**: Points to the `1e5` argument in the command `pcrcalc -f interpol.mod 1e5`.
- Runtime indication**: Points to the status bar at the bottom showing `Map Attributes - [Scalar] [rows 2226; cols 1115]`.
- List of typed commands**: Points to the command list at the bottom of the command window.
- Clear commands**: Points to the `+` button in the command list.
- Editor for PCRaster scripts & CMD files**: Points to the script editor on the right.
- Mark and display files directly from script (F6, F4)**: Points to the `mask=mask20m.map;` line in the script.
- Code folding double-click on section header**: Points to the `initial` section header in the script.
- drag and drop files and map series between folders Ctrl-drag = copy**: Points to the file list on the left.
- Current map attributes**: Points to the status bar.
- Show PCRaster relevant files**: Points to the file list on the left.
- Map series in blue Can be deleted/moved/copied**: Points to the file list on the left.
- Shortcuts to PCRaster Programs, incl mapedit**: Points to the `mapedit` button in the status bar.
- Use GDAL to convert maps**: Points to the `gdal` button in the status bar.

Command Window:

```
>>pcrcalc -f interpol.mod 1e5
>>pcrcalc version: Nov 5 2014 (win64/msvc)
>>
>>Executing timestep 2 (runtime: 0.51 of 81.60 min)
```

File List:

Name	Date Modified
DATA (D:)	1/17/2015
prgc	1/6/2015 1
data	12/13/2014
StLucia	10/4/2014
data	1/14/2015
flood	1/16/2015
maps20m	1/18/2015
rain	1/18/2015
maps20...	12/5/2014
maps50m	10/26/2014
res	1/1/2015 2
res05yn	1/2/2015 1
res05ynks	1/4/2015 1
res05yn...	1/3/2015 2
res10yn	1/2/2015 0
res10ynks	1/4/2015 1

Script Editor:

```
1 #####
2 # Model: rainfall interpolation #
3 # Author: Victor Jetten #
4 #####
5
6 binding
7 # input
8 rst = december_xmas_eve.tss;
9 DEM = dem20m.map;
10 stations = gr.map; # stations in th
11 mask=mask20m.map;
12 # output
13 raintot = raintot3.map;
14 raintoti = raintot2.map;
15 raintotz = raintotz.map;
16
17 areamap
18 DEM;
19
20 timer
21 1 320 1; # ^5 minute 2 days
22
23 initial
24 raintot = 0;
25 raintoti = 0;
26 raintotz = 0;
27 weight=windowaverage(slope(DEM), 10*celllength());
28 # some weight derived from slopes to influence th
29 report ties.map=scalar(spreadzone(ordinal(cover(
30 # sort of tiesen polygon as created by pcraster
31 dynamic
```