

NutShell 4.5 main functions (10 Mar 2013)

The screenshot displays the NutShell 4.5 interface with the following callouts and descriptions:

- Go to/Set/Delete Work Directories**: Points to the directory path `D:/data/merawu/day 3/maps` in the top toolbar.
- Script edit options (Alt-U/I/3/4)**: Points to the script editing icons in the top toolbar.
- Run/Pause/Stop current script**: Points to the execution control icons (play, pause, stop) in the top toolbar.
- Online context sensitive Help (Ctrl-F1)**: Points to the help icon in the top toolbar.
- List of Work Directories**: Points to the command output showing the directory structure.
- Argument substitution**: Points to the `TT` variable in the command line.
- Runtime indication**: Points to the status bar at the bottom of the command window.
- List of typed commands**: Points to the command list area.
- Clear commands**: Points to the clear button in the command list area.
- “+”: show maps stacked or in connected windows**: Points to the plus icon in the file explorer toolbar.
- Mark and display files directly from script (F6, F4)**: Points to the `mark` and `display` commands in the script.
- Code folding dbl-click on section header**: Points to the `binding` section header in the script.
- drag and drop files and map series Between dirs Ctrl-drag = copy**: Points to the file explorer interface.
- Map Attributes - [Nominal] [rows 886 : cols 682] [yUL 9208704.000 : xUL 352532.000] [dx 30] [Angle 0 Y:Bot->Top] [Min 1 Max 8]**: Points to the map attributes bar at the bottom.
- Current map attributes**: Points to the map attributes bar.
- Show only PCRaster relevant files**: Points to the file explorer view.
- Show/Delete reported files of current script**: Points to the file explorer view.
- Map series in blue Can be deleted/moved/copied**: Points to the file explorer view.
- Aguila / Legend / map attributes / new map / mappedit**: Points to the map attributes bar.

Command list: `pcrcalc tempgrad.map=windowaverage(tempgrad.map, 5*celllength());`

File Explorer:

Name	Size	Type
prgc		
data		
merawu		
day 3		
maps		
maps - Copy		
arcgis-export		
background		
bak		
climate explorer		
CROPD		
day 1		
day 2		
exerciser		

Script Content:

```
1 #####
2 # ITC Modelling course
3 #
4 # WOFOST with water balance
5 # Version february 2013
6 #
7 # (c) 130207 V. Jetten, ITC, Univ Twente
8 #####
9 #! --matrixtable --radians
10 # global options, do not touch
11
12 binding #[binding...]
109 areamap
110 mask;
111
112 timer
113 1 365 1;
114
115 initial
116
117 mask = DEM/DEM;
118 # Points = nominal(Point);
119 soildepth = mask*1000;
120 nrCells = maptotal(mask);
121 # nr cells in catchment
122 dt = 1; #timestep 1 not really needed but
123 dx = celllength();
124 day = scalar(1); #starting day, used for
125
```