

# NutShell 4.8x main functions (22 Feb 2014)

The screenshot displays the NutShell 4.8x main functions interface, which is a graphical user interface for a shell environment. The interface is divided into several panes and includes a menu bar, toolbar, and status bar.

**Callouts and Features:**

- Go to/Set/Delete Work Directories:** Located at the top left, pointing to the directory path `D:/NHM/dbase/day04` in the command window.
- Script edit options (Alt-U/I/3/4):** Located at the top center, pointing to the script editor options.
- Run/Pause/Stop current script:** Located at the top right, pointing to the script execution controls.
- Online context sensitive Help (Ctrl-F1):** Located at the top right, pointing to the help icon.
- List of Work Directories:** Located in the command window, pointing to the output of the `pcrcalc` command.
- Argument substitution:** Located in the script editor, pointing to the `1 20m` argument in the script.
- Runtime indication:** Located in the command window, pointing to the output of the `pcrcalc` command.
- List of typed commands:** Located in the command window, pointing to the command list.
- Clear commands:** Located in the command window, pointing to the clear button.
- “+”: show maps stacked or in connected windows:** Located in the command window, pointing to the plus button.
- Mark and display files directly from script (F6, F4):** Located in the script editor, pointing to the `binding` and `areamap` commands.
- Code folding db1-click on section header:** Located in the script editor, pointing to the `binding` section header.
- drag and drop files and map series Between dirs Ctrl-drag = copy:** Located in the file browser, pointing to the drag and drop functionality.
- Current map attributes:** Located in the file browser, pointing to the `maskoum.map` file.
- Show only PCRaster relevant files:** Located in the file browser, pointing to the `maskoum.map` file.
- Show/Delete reported files of current script:** Located in the file browser, pointing to the `maskoum.map` file.
- Map series in blue Can be deleted/moved/copied:** Located in the file browser, pointing to the `maskoum.map` file.
- Aguila / Legend / map attributes / new map / mappedit:** Located in the file browser, pointing to the `maskoum.map` file.

**Command Window Output:**

```
>>pcrcalc -f hazard1.mod 1 20m
>>pcrcalc version: Dec 4 2013 (win32/msvc)
>>Executing timestep 76 (runtime: 0.04 of 0.04 min)
>>
```

**Script Editor Content:**

```
1 #####
2 # ITC Modelling natural hazards course
3 #
4 # NATURAL HAZARD MODEL
5 # Version 1.2
6 # Description: single layer soil water balance
7 # timestep: day
8 # input : daily rainfall and daily ETP
9 # dem, soil map + soil data, modis L
10 #
11 # (c) V. Jetten, ITC
12 #####
13
14 #! --matrixtable --radians --liddout
15 # global options, do not touch!
16
17 binding #[binding...]
18
19 areamap
20 DEM;
21
22 timer
23 1 76 1; # runs 76 days from the startday onward
24
25 initial
26
27 startday = 151; # start day of the simulation, t
28
29 rootingdepth = 300; # homogeneous rooting depth a
```