

# rungotm – short documentation

`rungotm` is a matlab interface to GOTM (see [www.gotm.net](http://www.gotm.net)). Values for all parameters GOTM uses can be passed to `rungotm`, there is no need to manually edit the GOTM namelist files. Multiple GOTM runs with different parameter combinations can be performed with one call to `rungotm`. The output of `rungotm` is customizable, it can for example be an ID number that leads to the GOTM output.

## Setup

- GOTM must be up and running for `rungotm` to work properly.
- `rungotm` is written in pure matlab code, there is no need to compile anything. Just add the `rungotm` directory (the directory this file is in) and its subdirectories to your matlab path (e.g. using `addpath(genpath('/path/to/rungotm'))`)
- For more information on how to use `rungotm` read the matlab help (type `help rungotm`).
- Before you start, please take a look at the file `rungotm_config.m` and change the settings there according to your preference and your GOTM setup.

## Important Notes

- `rungotm` **edits files on your computer**, please be aware of that and use `rungotm` at your own risk. More precisely, `rungotm` copies the GOTM namelists it makes changes to, to a temporary file (`.tempcopy`), then it edits the namelist before each run and starts GOTM. After GOTM finished, the original namelists are copied back on top of the changed namelists. Therefore the namelists should be unchanged after a call to `rungotm`, furthermore `rungotm` makes only changes in the directory that is specified by the user, it does not edit GOTM namelists or any other file in other directories.
- Like noted above, `rungotm` makes copies of all namelists it changes (e.g. `gotmrun.nml` will be renamed to `gotmrun.nml.tempcopy`), these files are copied back after GOTM is finished. If the user terminates `rungotm` during a run (using for example Ctrl-C to cancel its execution), the namelists may not be copied back automatically.
- `rungotm` changes the values of the parameters `out_dir` to and `out_fn` in `gotmrun.nml`. All other parameters that are not specified in a call to `rungotm` will remain unchanged in the namelist.
- Currently `rungotm` uses `'.'` as the output directory for GOTM files.