

Education evenings 2018

Practical introduction to groundwater modelling

Computer exercises
01 01 General introduction

Contents of this short course (1/2)

✓ 01 Evening 1

- 01 General introduction
- 02 Introduction to ModelMuse
- 03 Our first MODFLOW model
- 04 Adding features to our model

✓ 02 Evening 2

- 01 A more complex model
- 02 Calibrating the more complex model

Contents of this short course (2/2)

✓ 03 Evening 3

- 01 RMA example model
- 02 Particle tracking
- 03 Solute transport simulation
- 04 What else?

√ 04 Additional exercises

- 01 Grid design
- 02 Troubleshooting exercises
- 03 MODFLOW LGR

Software we will use

✓ Pre- and postprocessors

ModelMuse P
ModelMate P
ModelViewer P
GW_Chart P

Make sure these are installed! See /00_before-the-course/!

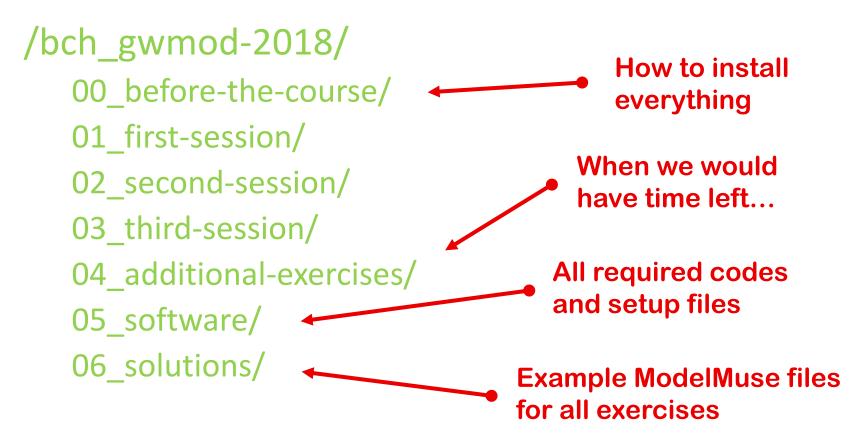
✓ Codes

MODFLOW-2005 PMODFLOW-LGR PMODPATH PMT3D-USGS PMT3D-USG

Folder structure (1/2)

```
/bch gwmod-2018/
                                         Main folder
   01 first-session/
                                    Subfolder for each session
      01-01 general-introduction/
           Subfolder for each
              presentation
          (and corresponding
               exercise)
```

Folder structure (1/2)



Acknowledgements (1/2)

- ✓ A large part of the exercises is based on training materials generously provided by Richard Winston (USGS), the ModelMuse author.
- ✓ Alberto Casillas (SCK•CEN, UGent) reviewed the exercises of the first edition of this course, and made several suggestions for improvement.

Acknowledgements (2/2)

✓ All people who have worked on the programs and codes we will be using (you can find their names on the websites). Without them, this practical introduction to groundwater modelling with open source tools would not have been possible today.



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Questions? Found an error?
Please contact B. Rogiers at brogiers@sckcen.be.