

Running the NAPL code using Excel

- Purpose:

- learn how to run the code from Excel and then how to generate the graphical representation of the data
- use the example problems to gain an understanding of the different parameters in the code and how they can affect the solutions

Setting up the correct path in Excel

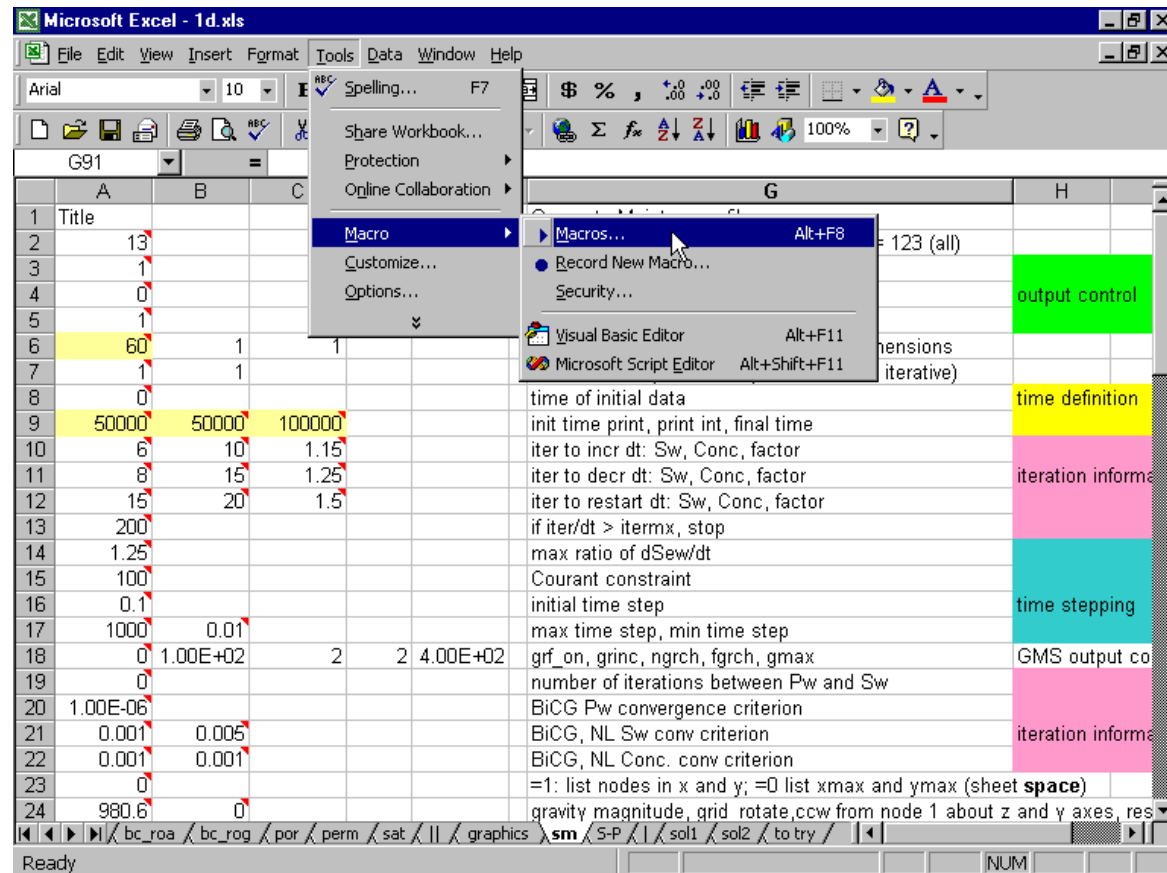
We need to set the path in Excel so that files are exported and imported to and from the correct location. To do this:

Open Excel

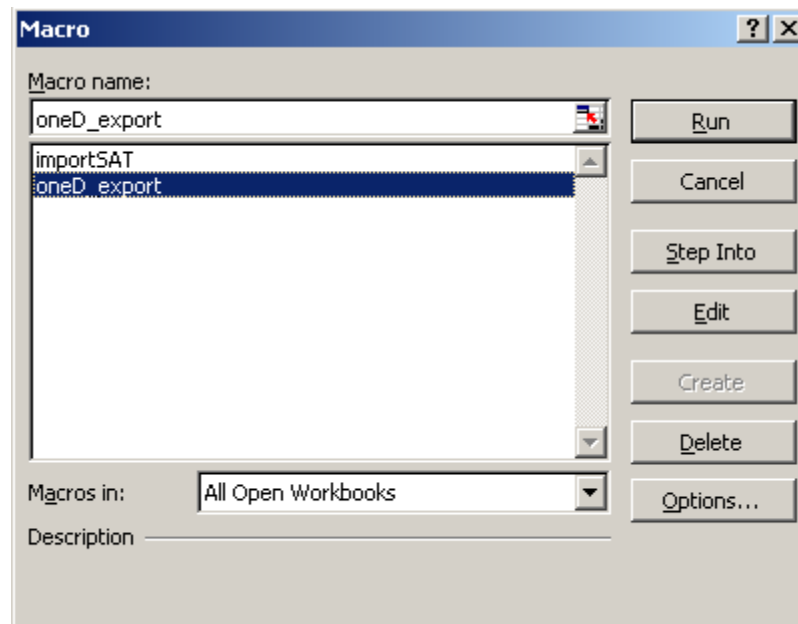
Go to Tools/Options

Click on the General Tab and enter the location of your directory under 'Default File Location'

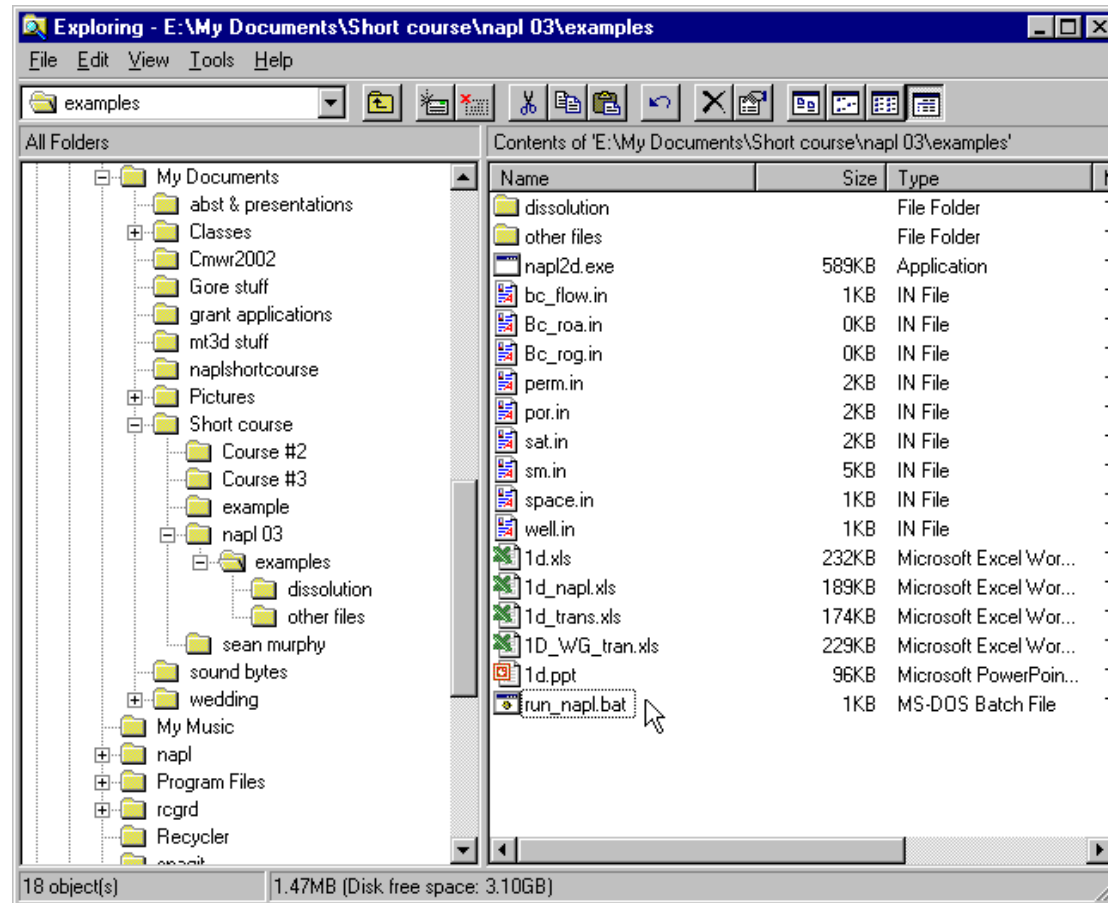
To Export Data, click on Tools\Macro\Macros



Select 'oneD_export' and then click Run



Go to your directory in Windows Explorer and double click
'run_napl.bat'



This will run NAPL1D.exe

```
C:\WINNT\system32\cmd.exe
NL_S 1      77  0.9073  0.0000  0.0927 <0.003667>  0.011672  0.003667

  elapsed time  time step <dt_crit>
    99612.3020966984      1000.000000000000      1000.000000000000
      0          164

P - BiCG < 1>

Preconditioned BiConjugate Gradient Squared for N, ITOL = 240 2
ITER  Error Estimate          Alpha          Beta
  0    0.10000000D+01
  1    0.27000099D-13      0.10000000D+01      0.3521350D-04
STW - BiCG < 1>
NL_S 1      81  0.9767  0.0000  0.0233 <0.002946>  0.005828  0.002946

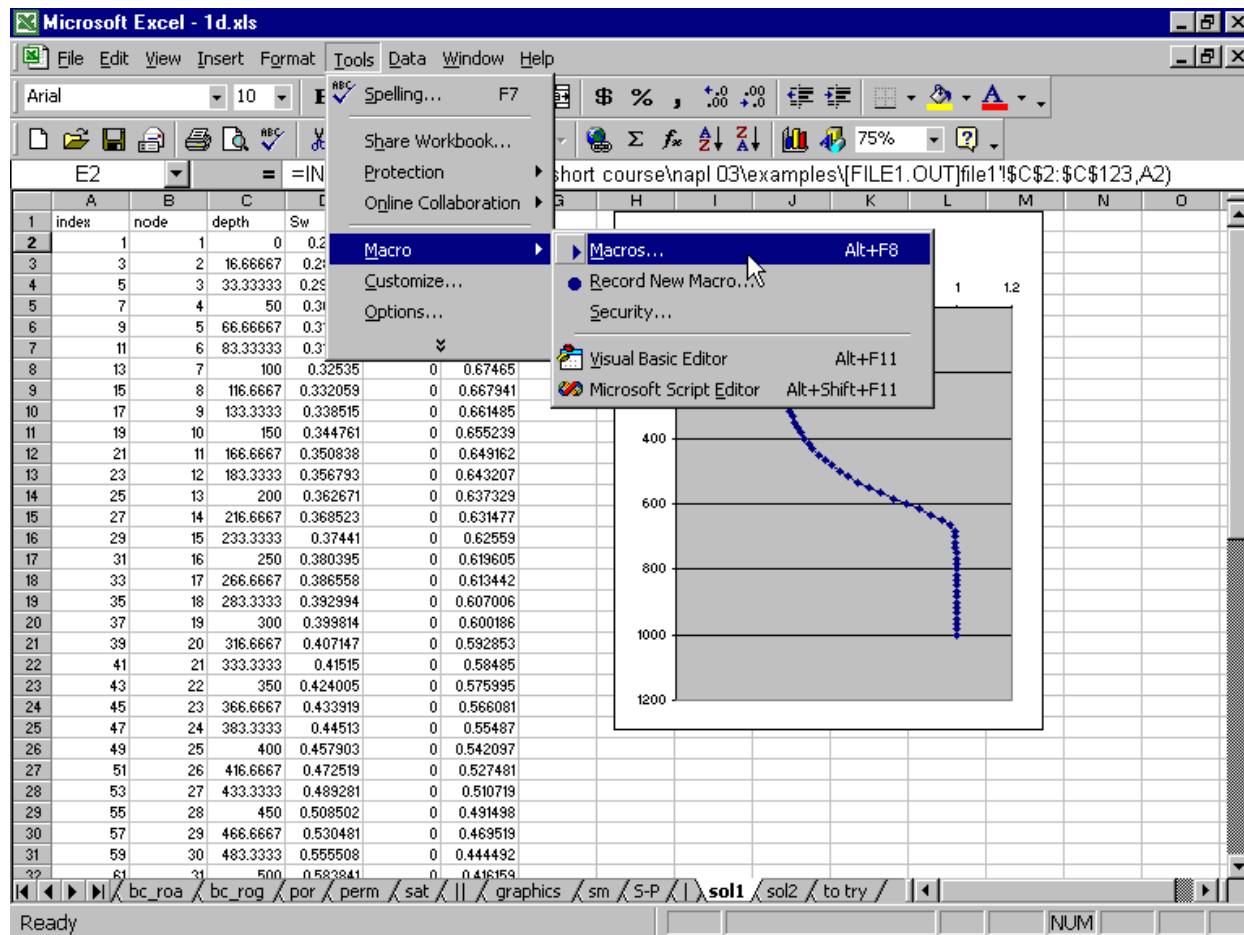
  elapsed time  time step <dt_crit>
    100000.0000000000      387.697903301596      1000.000000000000
      0          165

    1.15740740740741

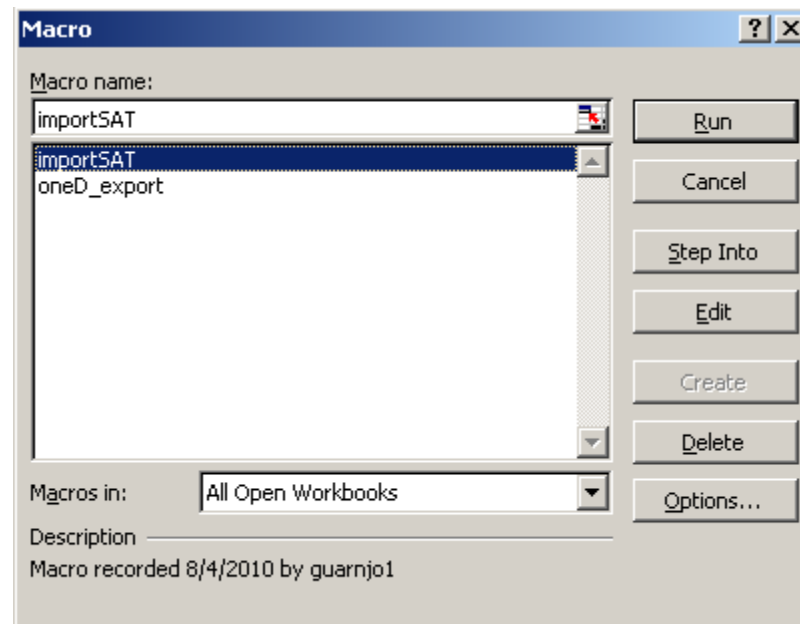
S:\NAPL\LATEST~1\1D>pause
Press any key to continue . . .
```

Press any key when finished and return to Excel

Go back to the excel file and click Tools\Macro\Macros



Select 'importSAT' and then click Run



The solutions are generated on the graph(s) in sheets 'sol1' and 'sol2'

