ADEPT USER MANUAL – QUICK GUIDE

Contents

Installation

The program has been tested and runs under various platforms, Windows 9x, XP and 2000

Minimum requirements Pentium , 64 MB memory. Hard-disk usage is approx. 100 MB

The program is provided on a CD-ROM

Insert the CD-ROM in your drive.

Use the run option of the Start button type : <CDROM>:\setup.exe and press enter.

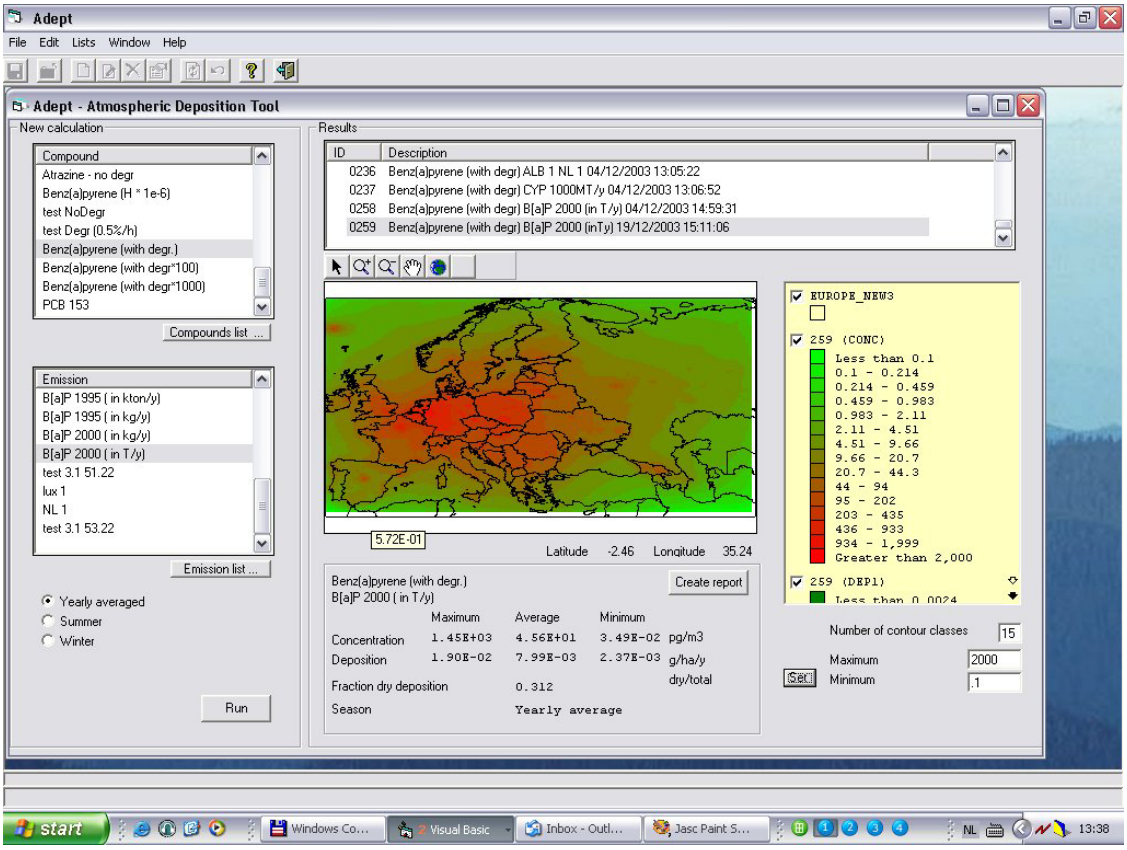
The program will install itself.

Main screen

When you start the ADEPT model you have two options:

- Start a new calculation (left side of main screen)

- View results from a previous calculation (right side of main screen)



Starting a new calculation

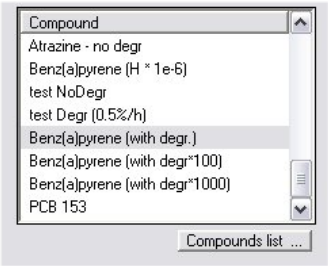
This part will guide you through the necessary steps to perform a new calculation.

In order to calculate the deposition and concentration fields of a compound in Europe we need data of two types :

- Compound behaviour in the environment.
- Emission of the compound

On the left side of the screen, you can select / define compound properties and emission

Selecting an existing compound: Select the compound in the listbox



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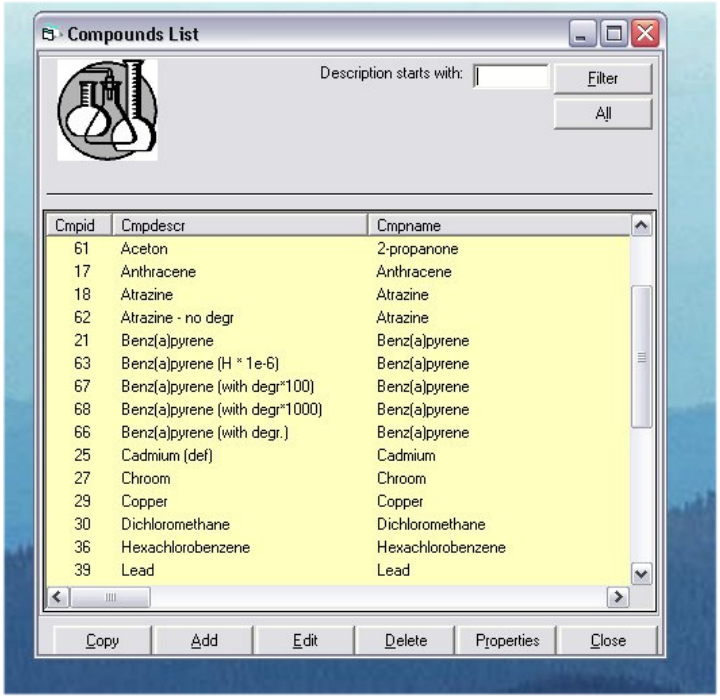
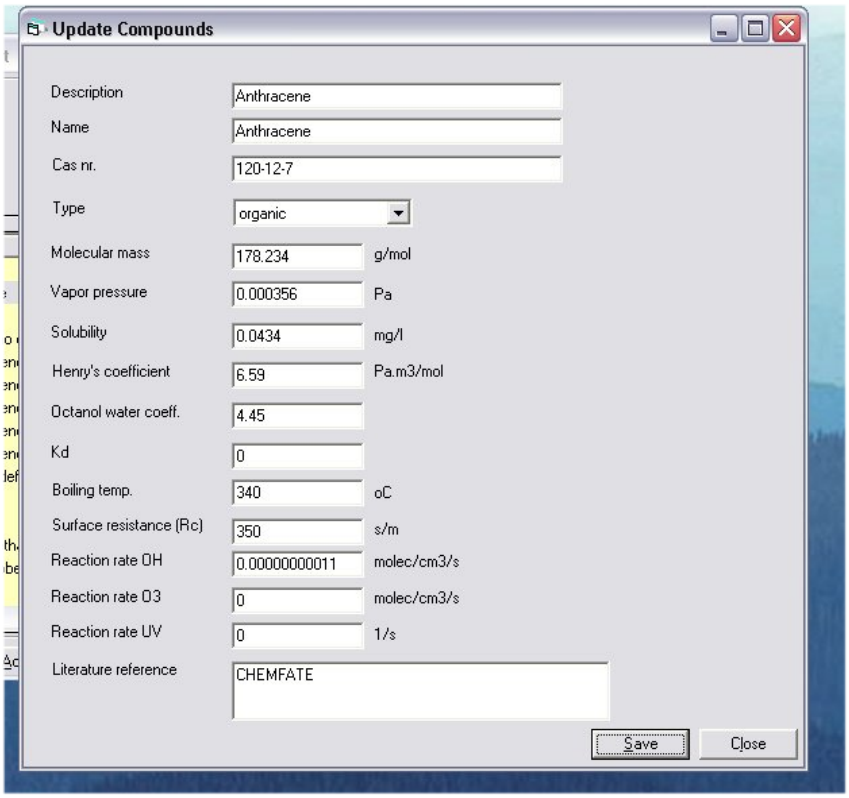
To view add or change the compounds click the button Compounds List or select from the upper menu bar Lists – Compound Lists.



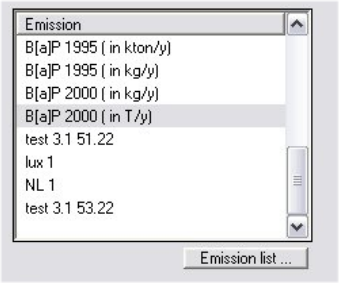
Here you can view, edit, copy or delete existing define compounds and add new ones.



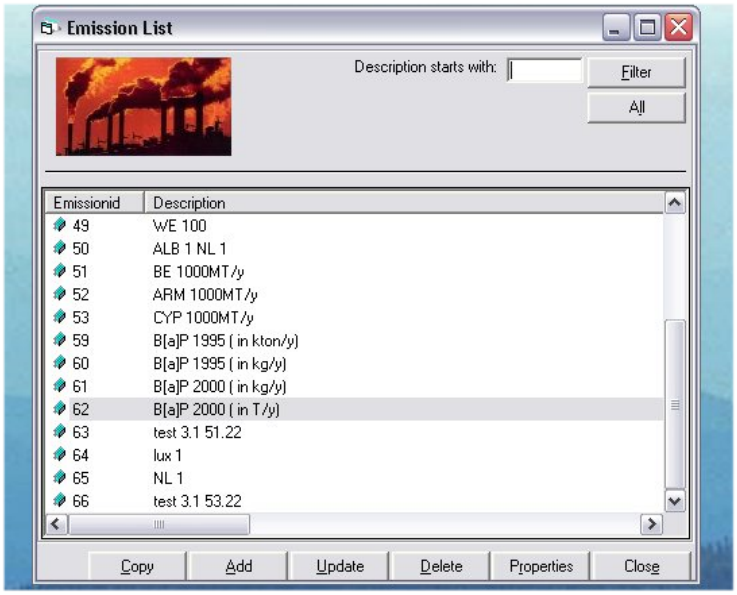
The compound definition requires a limited number of environmental properties.

Define your compound and press SAVE to save. You can now use the compound in calculations.

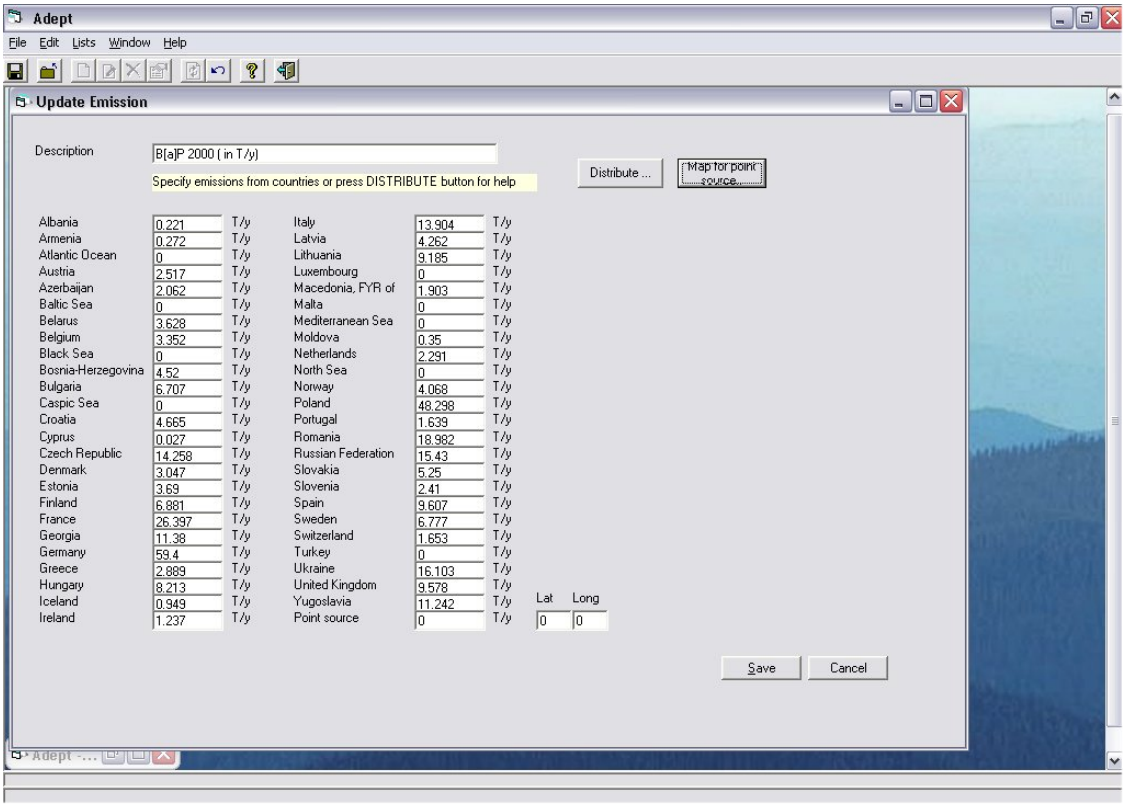
Selecting an existing emission: Select the emission in the listbox



To view add or change an emission click the button Emission list or select from the upper menu bar Lists – Emission List. In the following screen, select the compound and the action you want to perform (add, delete, copy etc..)

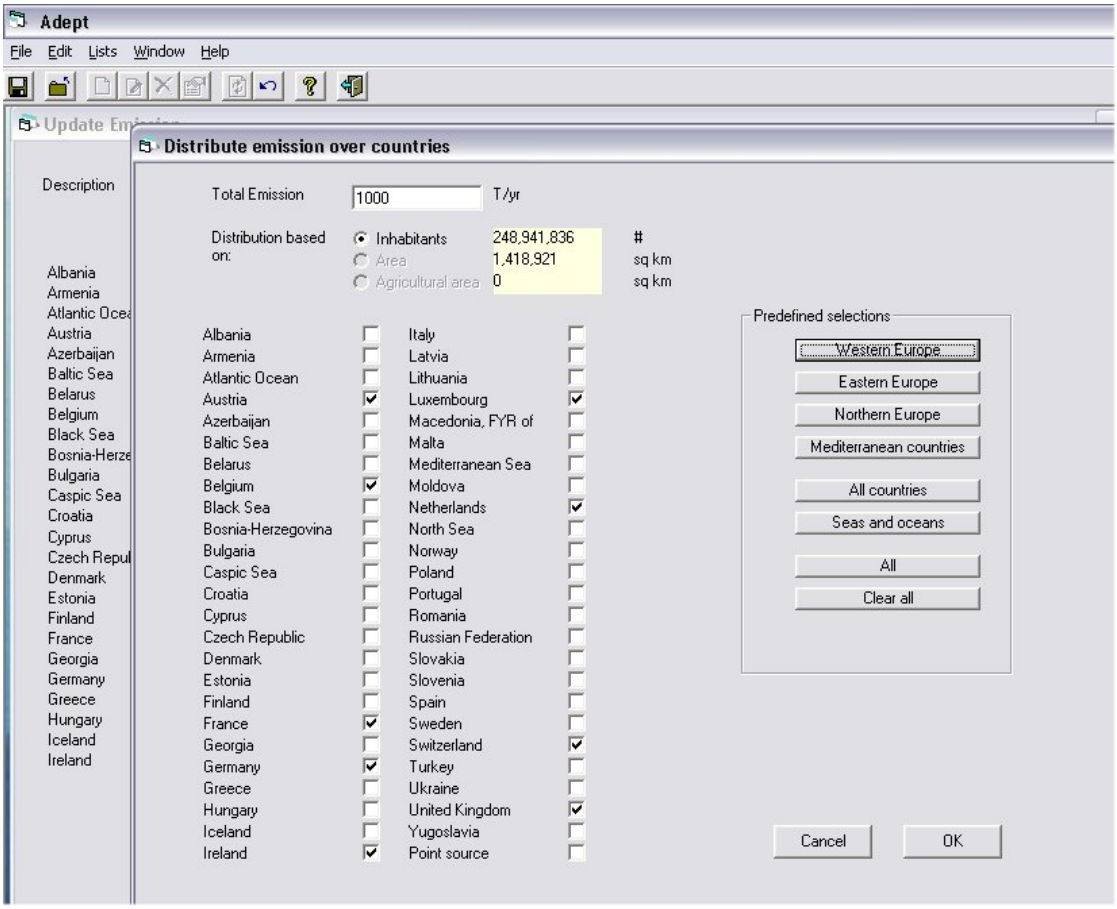


Emissions are specified on a per country basis.



You can either specify emission per country yourself, or have an total value distributed over several countries by ADEPT.

To specify data yourself, enter the values per country and press SAVE, the emission can now be used in calculations. To have ADEPT distribute a total value over several countries, press the Distribute button to enter the next screen:



Specify Total Emission in the top text box and select the countries over which this emission must be distributed. You can select predefined sets of countries on the right side set of buttons.

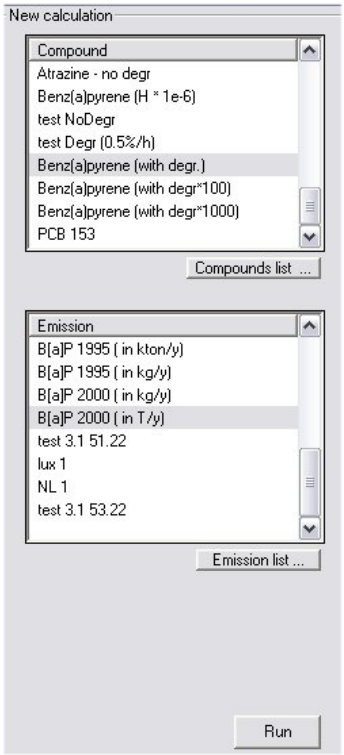
In this version of the ADEPT model, emissions are distributed based on population density. Next version will have the possibility to distribute values based on land use or area.

Press ok to return to the previous screen. Here you will now see the distributed emissions over the countries. You can change the values.

Press Save to save the emission scenario. You can now use this scenario in calculations.

Starting a calculation

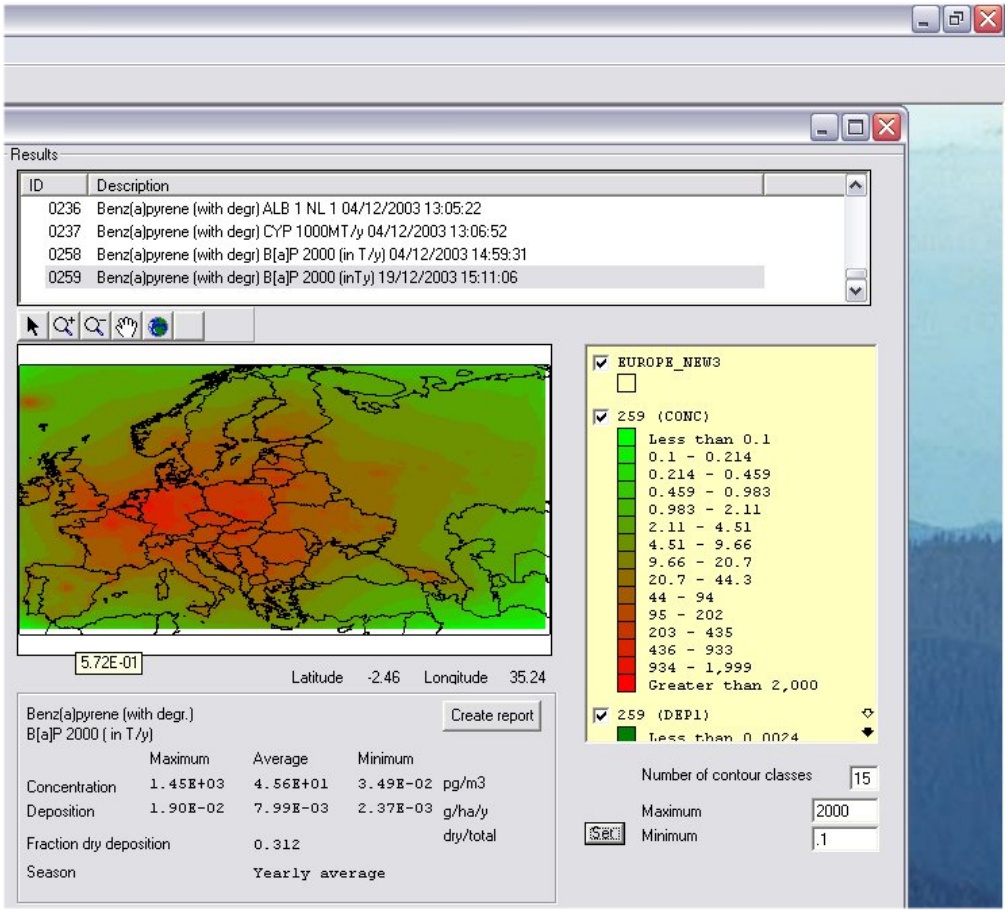
Select a compound in the listbox , select an emission in the listbox, Press Run.



The model will start calculating and will show the results after a few seconds on the right side of the screen.

Viewing results

The results are shown on the right side of the screen. In the results listbox you can select previous calculations. Selecting one of these from the listbox will show the result maps of concentration and deposition.



The maps are GIS shape files, by (de)selecting the tick boxes in the legends, you can show and hide the individual maps :

1) EUROPE_NEW3 : country borders/ land boundaries

2) CONC : surface concentration in the atmosphere

3) DEP1 : total deposition

Below the maps some basic statistical data is shown. Pressing the Create Report button will print a report file in the working directory in HTML format. File name is <runid-number>-report.html .

The file can be viewed with any html capable viewer (e.g. internet explorer)

Removing runs

Select LISTS in the menu bar and then select Runs…

In this screen you can remove existing calculations.