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5.6 General features of the Graphic User Interface

EwE6 has a markedly different look to any previous version of EwE, representing much improved navigability of the software. After opening an EwE model, you will see an interface similar to that shown in Figure 5.1, consisting of:

i. Menu bar
ii. Shortcut buttons
iii. Navigator window
iv. Main screen
v. Tabs bar
vi. Status tab
vii. Remarks tab
viii. Status bar

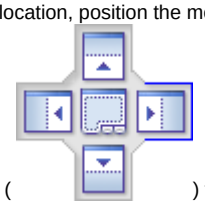
Note: click on *Basic input* on the *Navigator window* to see your Ecopath model groups.

All input and output forms are listed in a nested directory in the *Navigator window* (see section below), enabling users to move intuitively through the steps of building and using a model. A key feature of the Graphic User Interface (GUI) is the ability to select forms from the *Navigator window* and display them as tabulated windows on the *Tabs bar*. This allows you to switch easily among forms in current use.

Users can change the look of the GUI using a number of features available on the *Tools menu*. In addition, any of the windows in the GUI can be hidden or visible, docked (locked in place) or floating, or can be docked to new locations.

Floating windows are a particularly useful feature for users with multiple monitors as one form can be edited whilst referring to others.

A window can be switched from visible to hidden mode using the push pin icon (AutoHide) on its title bar. To switch from visible to hidden mode, click on the vertical AutoHide icon ( ) then move your mouse away from the window and click elsewhere on the screen. It will be hidden and a tab will appear that gives you access to the hidden window. To view the window temporarily click on the tab. To switch back to visible mode, click on the horizontal push pin icon ( ) whilst viewing the window.

Any window that is in visible mode) can be moved to a floating window or docked to a new location. To move a window, click on the title bar at the top of the window (or its tab if it is on the Tabs bar) and move the mouse whilst holding down the left mouse button. A transparent blue box and a set of window dropper icons will appear (e.g., ). To move to a floating window, drop the box anywhere on the screen except on the dropper icons. To move to a new docked location, position the mouse over the dropper icon where you would like to dock the window and release the mouse button. Use the centre docking icon () to lock a window to the Tabs bar.

If you have checked "Save window layout" on the Tools menu, changes in layout will be preserved next time you open the model.

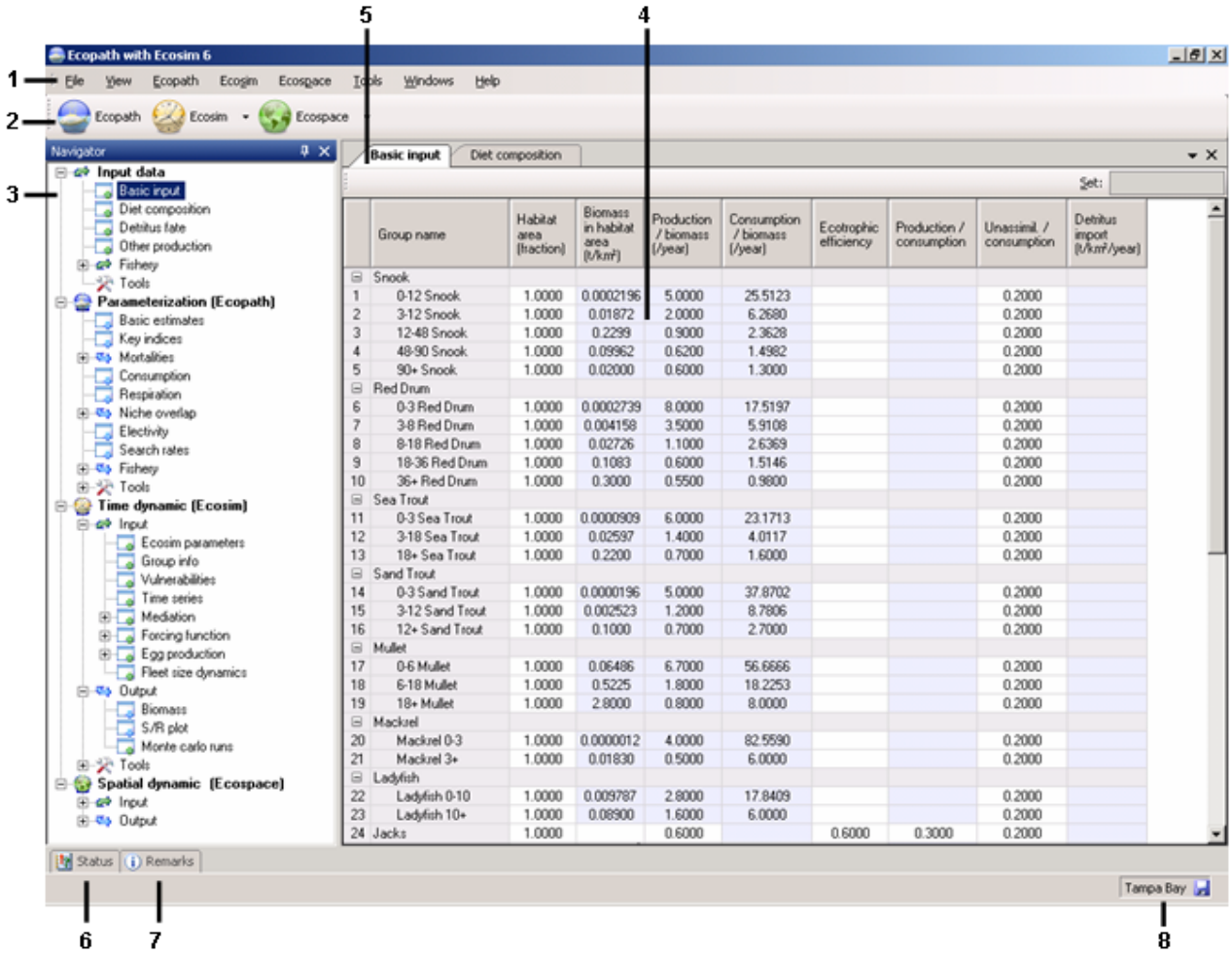


Figure 5.1 EwE6 user interface, showing the basic parameter input screen. Numbers refer to the features listed at the beginning of this section.

1. Menu bar

The *Menu bar* contains the File, View, Ecopath, Ecosim?, Ecospace?, Tools, Windows and Help menus, allowing users to open, close and save models, set preferences and access Help files.

Please note that help for the Ecopath, Ecosim and Ecospace menus can be found at the beginning of Chapters 6, 8, and 10 of the EwE6 User Guide or by clicking on these links: Ecopath menu, Ecosim menu?, Ecospace menu?

2. Shortcut buttons

The Ecopath, Ecosim and Ecospace shortcut buttons provide quick access to existing Ecopath models and Ecosim and Ecospace scenarios.

3. Navigator window

The *Navigator window* is the main navigation tool in EwE6. Expanding menus provide access to all the features of Ecopath, Ecosim and Ecospace. Clicking on menu items (e.g., *Basic input* or *Diet composition*) displays these items in the *Main screen* where they can be viewed and edited.

To make navigation easier, the menu nodes in the *Navigator window* are colour coded. Green coded nodes indicate input forms (forms where you enter data). Blue coded nodes indicate output forms (forms where model results are displayed as tables or graphs). Menu nodes with a "+" icon can be expanded to reveal sub-nodes.

Close the *Navigator window* by unchecking the *Navigator* option on the *View menu* or by clicking the close button at the top of the bar. The *Navigator window* can be hidden using the AutoHide button (📌) on the title bar (see instructions above). Note that you must click elsewhere on the screen before the Navigator window will disappear.

4. Main screen

The *Main screen* shows the forms where Ecopath, Ecosim and Ecospace model inputs are entered and edited. Model results are also displayed here. Note that nothing is displayed in the Main screen until a menu item is selected on the *Navigator window*. Once an item has been selected (e.g., *Basic input* table) it is added as a tab to the *Tabs bar* so that you can easily return to it after other items have been displayed.

General note about input forms. All input forms (coded with a green arrow in the *Navigator window*) have a *Set* box in the top right corner for entering values into multiple cells. For example, you may wish to enter the same value of a parameter for several groups at once. Highlight the cells for the groups you wish to have the same value and type it into the *Set* box. Note that you can only do this for one model variable at a time.

5. Tabs bar

The *Tabs bar* provides an easy means of switching between model forms. Tabs are added as they are selected on the *Navigator window*, enabling easy movement among forms currently in use. You can view forms simply by clicking on the tabs or by selecting them from the list under the down arrow on the right hand side of the toolbar. You can also select a form to display by checking it in the *Windows menu*.

The current form can be closed using the close button at the end of the Tab bar or by using the *Close* option on the *Windows menu*. You can close all open forms using the *Close All Tabs* option on the *Windows menu*.

Any form can be dragged and dropped to a floating window or docked to a new position by dragging it by the tab whilst holding down the left mouse button (see *General features of the Graphic User Interface* above).

6. Remarks tab

Many of the input tables allow you to enter comments and extra information about the data that have been entered.

To add a comment, select the desired cell and click on the *Remarks tab* to open the *Remarks panel*. Remarks can then be entered or edited here. Remarks can be viewed later by holding your mouse over commented cells (marked with a flag in the corner) or by selecting the commented cell and clicking on the remarks button. The *Remarks panel* can be switched to permanently visible mode by clicking on the horizontal push pin icon (⊣) whilst the window is open.

7. Status tab/Status panel

EwE6 keeps a log of model actions in the *Status panel*, which opens when you pass your mouse over the *Status tab*. The *Status panel* can be switched to permanently visible mode by clicking on the horizontal push pin icon (⊣) whilst the window is open.

Three types of message are displayed in the *Status panel**:

- Information messages [Image(wiki:EwEugImages:03000051.png)?]: Information messages provide feedback on regular events in EwE. Information events are confirmations of successful actions. Examples are opening the model; successful edits; and successful balancing (i.e., parameterization) of the model.
- Warning messages [Image(wiki:EwEugImages:03000052.png)?]: Warnings occur when EwE was not able to complete an action and requires the user to fix a problem, usually with the input data. For example, one of the most important of these is when parameterization fails (i..e., the model fails to balance). When this occurs, you will get the message "Your model is NOT balanced! Computed Ecotrophic Efficiencies (EE) invalid for one or more group(s)." Clicking on the "+" icon next to this message expands the message to show which groups are causing the problem.
- Critical messages [Image(wiki:EwEugImages:03000053.png)?]. Critical messages are very rare and should not be encountered during normal use of the software. Users encountering critical messages should try closing and re-opening the program. If the problem persists, please contact us through the user support section of www.ecopath.org. *Note the icons will match those on your system so may appear slightly different.

You can clear one or all messages in the status panel by right clicking on the message or panel.

8. Status bar

The *Status bar* displays the name of the active model. If unsaved changes have been made to the model, a Save icon appears to remind you to save your model. The *Status bar* can be switched off by unchecking the *Status Bar* option on the *View menu*.