



## Comparison of the Main Screens of Intkey and Lucid

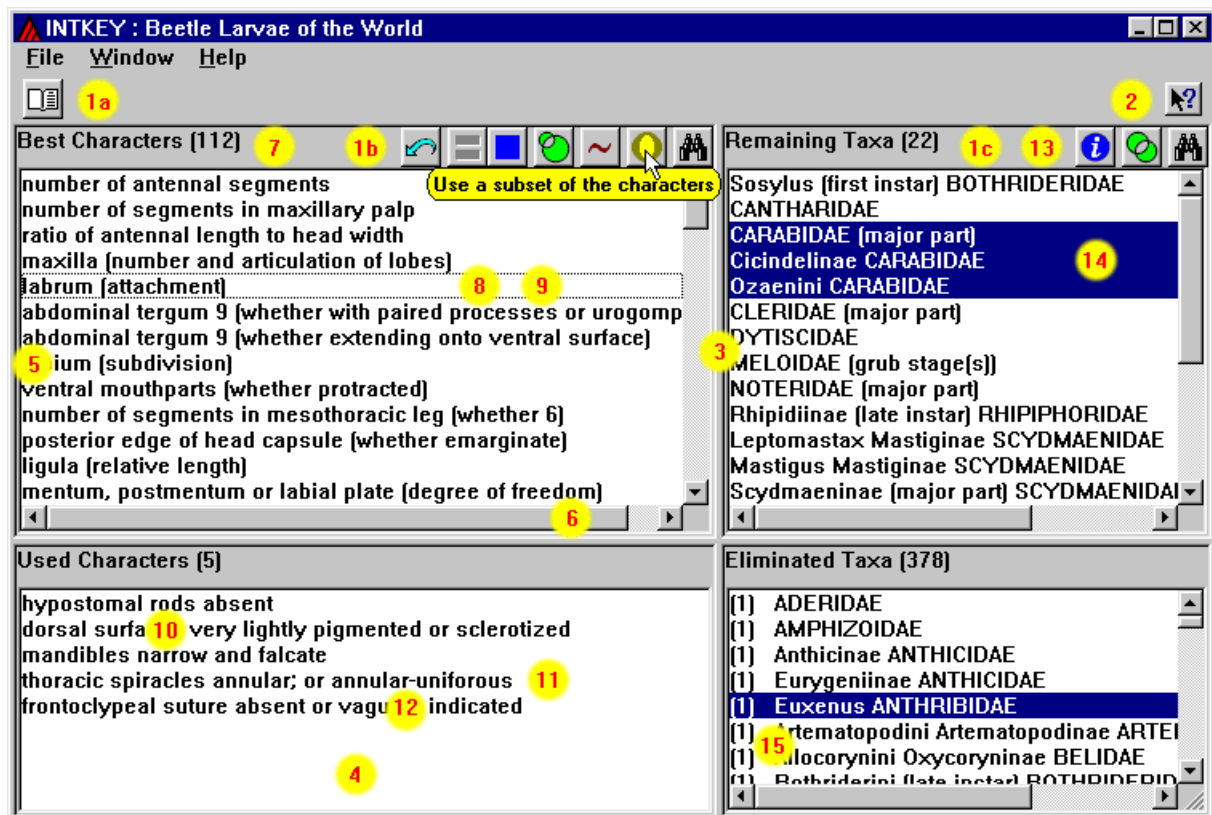
13 September 2005

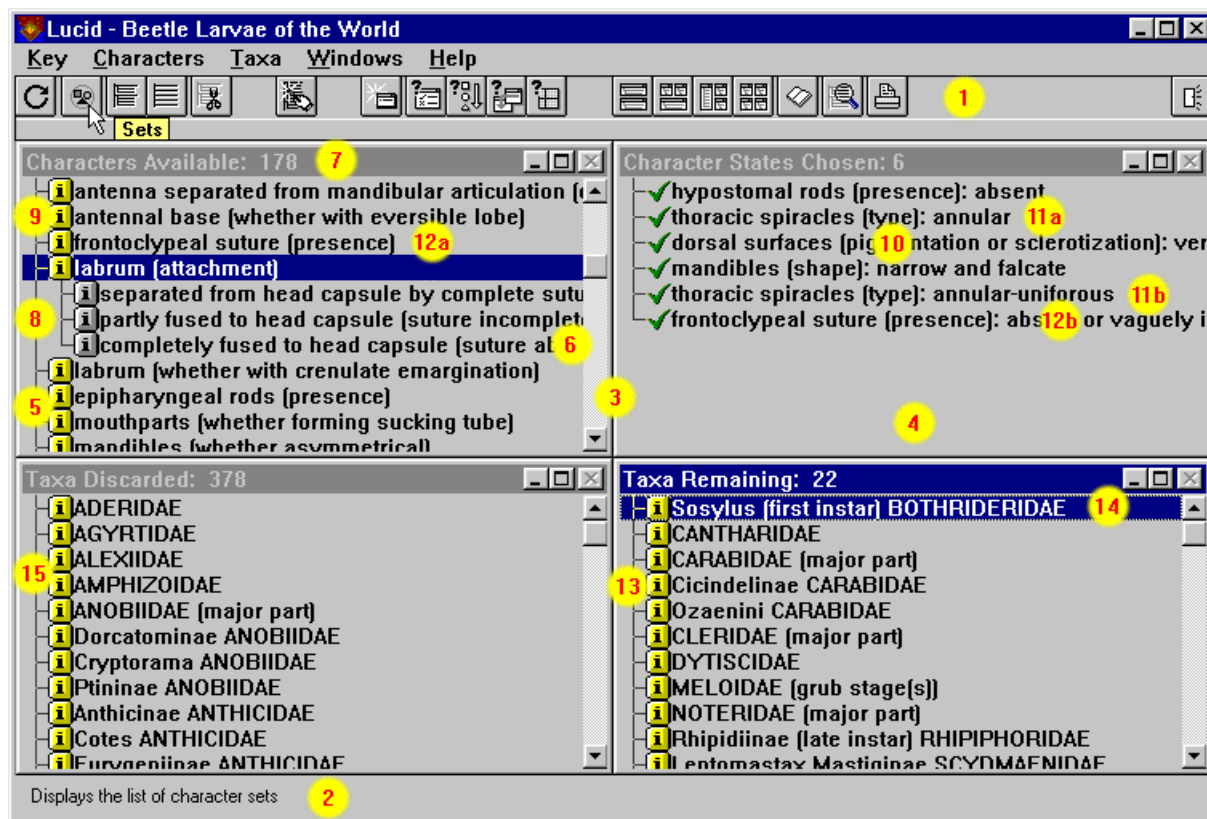
M. J. Dallwitz

The versions compared are Intkey 5.10 (August 2000), and Lucid 1.5 Build 18 (September 1999). The main screen of Lucid 2.2 (July 2002) differs only in cosmetic details — the design of the buttons, the positioning of button hints, and a slightly different set of buttons in the toolbar.

For a detailed comparison of these and several other programs, see ‘Dallwitz, M. J. 2000 onwards. A comparison of interactive identification programs. <http://delta-intkey.com>’.

The numbers superimposed on the screen images indicate corresponding features, which are described in the notes below.





### 1. Toolbars

*Intkey.* Three toolbars: (a) user-definable (buttons can represent any operation or sequence of operations); (b) characters and identification; (c) taxa and information.

*Lucid.* A single toolbar. Definition of buttons by the user not possible.

### 2. Extended help for toolbar buttons

*Intkey.* Available in separate window via '?' button. Length unlimited.

*Lucid.* Automatically displayed at bottom of screen. Length limited.

### 3. Subdivision of main window

*Intkey.* Main window subdivided into panes, allowing easy resizing of subdivisions. Default sizes of the panes are chosen for efficient use of screen space.

*Lucid.* Main window subdivided into windows, making resizing cumbersome. Default sizes of the windows are equal.

### 4. Order of subdivisions of main window

*Intkey.* Character panes on left, taxa panes on right. This allows efficient use of screen space (character text is usually longer than taxon text).

*Lucid.* Character windows at top, taxon windows at bottom.

### 5. Structure of lists

*Intkey.* Simple lists.

*Lucid.* Trees.

### 6. Horizontal scrolling

*Intkey.* Horizontal scrolling of panes allows long lines to be viewed.

*Lucid.* No horizontal scrolling — long lines are truncated.

### 7. Default order of available characters

*Intkey.* Best order.

*Lucid.* Natural order.

### 8. Character selection

*Intkey.* Character selection causes display of separate state-selection window (not shown). This allows identical operation from text and image state-selection windows.

*Lucid.* Character selection causes display of states in the same window, as branches of the tree.

### 9. Character images

*Intkey.* Accessed automatically, if available, when character is selected.

*Lucid.* Accessed by clicking on 'Information' button adjacent to the character or state.

**10. Omission of redundant words**

*Intkey.* Redundant words are omitted from the 'Used Characters' pane, allowing more text to be seen without scrolling.

*Lucid.* Redundant words are not omitted from the 'Character States Chosen' window.

**11. Multiple states of a character**

*Intkey.* In the 'Used Characters' pane, multiple states of a character are displayed on a single line.

*Lucid.* In the 'Character States Chosen' window, multiple states of a character are displayed on separate lines. These lines are not necessarily contiguous.

**12. Available/Used characters**

*Intkey.* Used characters are displayed only in the 'Used Characters' pane.

*Lucid.* Used characters are displayed in the 'Characters Available' window, as well as in the 'Character States Chosen' window.

**13. Taxon information**

*Intkey.* Obtained via a button in the toolbar.

*Lucid.* Obtained via a button adjacent to each taxon name.

**14. Taxon selection**

*Intkey.* Multiple taxa can be selected in the taxa panes (which behave as a single list for this purpose), and any operation can be applied to the selection.

*Lucid.* Only a single taxon can be selected in the taxa windows. Multiple selections must be made in ad hoc dialogs.

**15. Number of differences**

*Intkey.* The 'Eliminated Taxa' pane (and the 'Remaining Taxa' pane, if the error tolerance is non-zero) displays the number of differences between the specimen and each taxon, and the taxa are sorted on this value.

*Lucid.* The number of differences between the specimen and each taxon is not displayed, or used to sort the taxa.