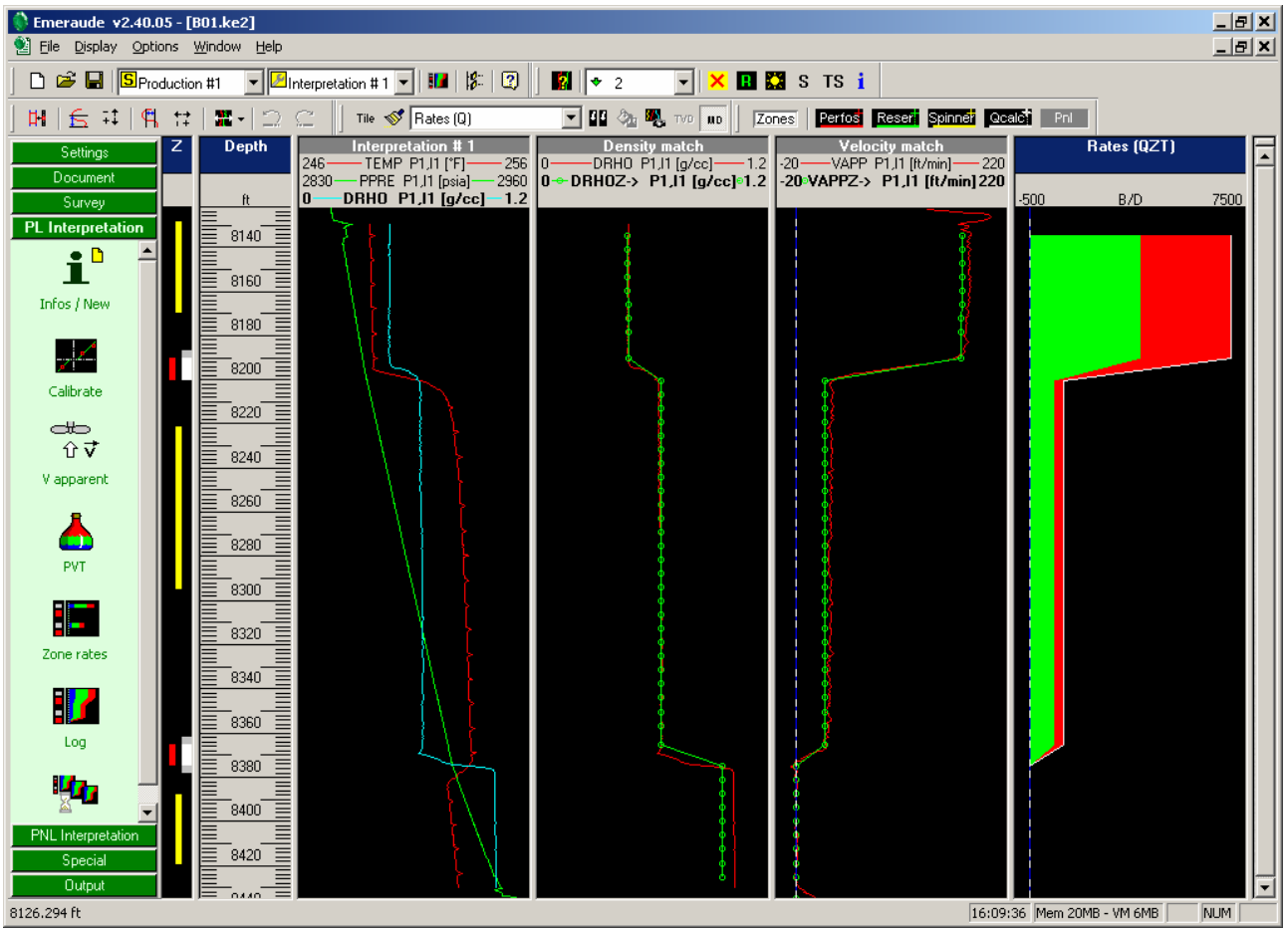
# D01 • Emeraude general features

## D01.1 • Main window

The main program window is displayed with an empty plot area at startup of a new Emeraude session, or with the window typically containing a series of tracks showing selected logs. On the left of the screen is an “outlook” type control panel. These options are described in chapters D06-D13.




At the top of the Emeraude window is the Main menu bar. Below this are five toolbars: the Main toolbar, the Pass toolbar, the Scale toolbar, the Display toolbar and the Zone toolbar. The effect of passing the mouse cursor above a button in a toolbar, or above an icon in the control panel will display a brief description of the corresponding option in a small pop-up. The Main toolbar provides shortcuts for menus and options, toggles between active Surveys and Interpretation modes and accesses the Browser. The Pass toolbar contains options for viewing/editing and activating the passes. The Scale toolbar accesses shortcuts for scale and zoom routines. The Display toolbar allows to retrieval of hidden plots and rearranges the log display window for improved viewing (chapter D03); it also accesses shortcuts to “fill area” and “snapshot” routines. Finally, the Zone toolbar is used to view/edit all the zone channels such as perforations, spinner calibration zones, etc.

Every toolbar has a “grip control” shown as two vertical lines that can be used to drag the toolbar, dock it in a different position or leave it as a “floating” toolbar inside the plotting area. It is possible at any point during a session to customize the plot layout by hiding, resizing or splitting plots, see chapter D03.

### D01.1.1 • Main menu bar

#### File

Contains standard options for creating, opening, saving, and closing sessions, as well as a Print Setup.

#### Display

| | |
|---|---|
| **Main Toolbar**: | show/hide the main toolbar |
| **Pass Toolbar**: | show/hide the pass toolbar |
| **Scale Toolbar**: | show/hide the scale toolbar |
| **Status bar**: | show/hide the status bar at the bottom of the screen |
| **Display Toolbar**: | show/hide the display tool bar |
| **Tile plots**: | resize the plots currently shown to fill the available space |
| **Log Tile**: | change the attributes of the plot header, i.e. title as tool name or type (mnemonics), show min/max, show units and condensed titles |
| **Cursor**: | change the cursor (when on the plotting area) between full cross, vertical, horizontal, or standard |
| **Scroll**: | select complete or fast scroll. In fast scroll mode, when the scrollbar thumb is dragged, only the Depth and the zone view are continuously scrolled. Logs are updated only when the thumb is released |

#### Options

This menu gives an alternate access to the same options as the control panel.

#### Windows

This menu accesses the standard windows settings, and:

**Browser**: Display the Browser window (chapter D05).

#### Help

This menu accesses the standard windows settings and,

**Kappa on the Web**: Connects to Kappa Engineering Web site if a connection to the internet is open and a compatible Internet browser is installed on your system

## D01.1.2 • Toolbars

### Main toolbar




Create a **New** session, **Open** an existing file **Save** the active document, select the active survey in the active document, select the active interpretation within the active survey, update schematic logs, access to the Data Browser, **Help**.

### Pass toolbar




Pick the **nearest curve**, select the **active pass**, **hide** the active pass, set the active pass as **reference**, **highlight** the active pass, **shift** the active pass, active pass **Information**, **Tool shift** (see Depth Match, section D08.7). The Hide, Reference, Highlight, Shift, and Info options apply to the active pass (so does spinner reversal option of the Survey panel). The nearest curve option provides a way of selecting a pass by clicking on (or close to) any channel of the pass. If the browser is open the nearest curve is also selected in the data browser and the appropriate nodes are developed to show the selection. When a channel requires editing, this is an easy way of finding its actual location in the database.

### Scale toolbar




**Depth scale**: change the depth range or scrolling window range manually.
**Interactive zoom on depth**: redefine the scrolling window range by click and drag: after selecting this option click in any plot for the top limit, drag down to the desired bottom limit, release the mouse button.
**Dynamic zoom** on depth: the scale changes dynamically with the mouse displacements.
**Interactive zoom on measure**: same behavior as the above option, applies to the horizontal scale.
**Dynamic zoom** on measure: same as above for horizontal range.
**User view horizontal scale settings**: allows to set beforehand whether the modification will affect only the active channel, all the channels of the same type, or all the channels on user views.
**Undo** last zoom operation.
**Redo** last undone zoom operation.

**Display toolbar**



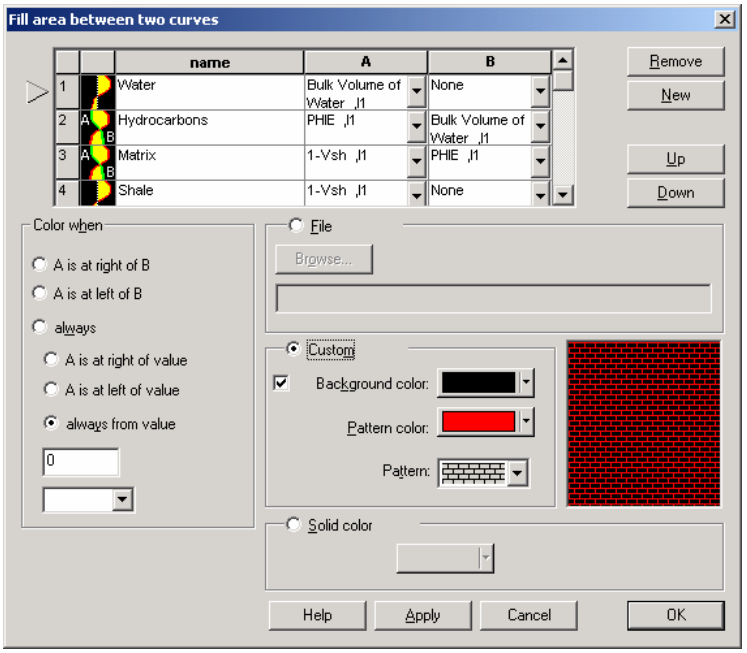

**Tile** will optimize the use of the full window width (shortcut “Ctrl T”).
**Refresh** all the visible tracks.
**Hidden** plot list.

**Fill area** 

At the top of the dialog is the list of current areas. You can use the New and Remove option to add/delete.

You can fill the area between a curve “A” and a curve “B”, or between a curve “A” and a fixed value. The “A” and “B” columns are used to define the desired area.

There are additional explicit controls under “Color when”.

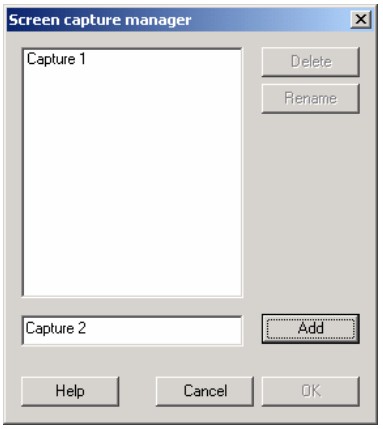



Areas can be filled with a solid color, and a pattern (with user defined front/background color).

**Screen capture** 

The “Capture” icon is part of the Display toolbar. By calling this dialog the current state of the screen can be saved with a user defined name.

The same option icon is used to restore the screen layout to that of a previous capture.



**TVD**  **/ MD** 

This option allows you to display the logs with respect to TVD when a TVD channel is present under the General Well Data.

**Zone toolbar**



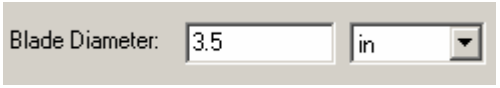

Options of the toolbar, from left to right are:

**Tabular zone edition**: same dialog is obtained as when double-clicking in the Z track.
**Perfos interactive zone creation**.
**Reservoir zone interactive zone creation**.
**Spinner calibration zone creation**
**Rate calculation zone creation**
**PNL crossplot zone creation**

*Note: For the cases where the zone creation is part of the logical path, the subsequent step is enabled at all times but the user is reminded to create the zones if he has not done so. For instance, in the PL Interpretation panel, the Calibration option is always enabled once a spinner is loaded but if you try to execute this option without calibration zones, you will be reminded to create them first.*

## D01.2 • Unit handling

3 different systems of units need to be considered to describe how Emeraude handles unit conversions:
**Internal units**: these are the units in which Emeraude actually stores values. The system is fixed by software design (for information, it is SI units).
**User units**: The units in which values are displayed by the interface and printed on outputs. It is specific to a given document and can be fully customized (see below).
**Default user units**: The default for initializing user units when a new session is created. Can be fully customized (see below).
When working in an Emeraude session, the input and output function as follows:
**Output**: Values are converted from internal to user units.
**Input** (other than loading file): Any time a dialog expects a value, this value is by default displayed/entered in the current user unit.




A drop list to the right of the edit control allows switching to another unit, with no effect outside the dialog. For example, if S.I. units have been selected but the spinner blade diameter is in inches, it is possible to input inches directly without changing the unit system. On dialog validation, the value is converted to internal units.

**LIS and LAS File loading** (chapter D04): LIS and LAS files include a unit specification through character strings. Identifying the strings allows the load routine to apply the necessary conversion from file units to internal units. In this situation, the user units are not used by the load. If the unit strings are not identified, the user is requested to resolve the problem.

**Ascii File loading** (chapter D04): Ascii files (other than LAS) do not include unit specification in a pre-defined format. By default Emeraude will assume that the file units are the current user units. It this is not the case, the proper selection must be made at the time of the Load, similar to above for single value input.