D06 • Settings panel

Accessed in the control panel with Settings



Application
Autosave and language controls.



Interface
Color of the control panel buttons, background, text, etc.



Units
Default system of units.



Mnemonics
View/edit the list of defined mnemonics.



Interpretation
User technical settings, e.g. define subsets and defaults for PVT and flow correlations. Gathers also the default options for the display.



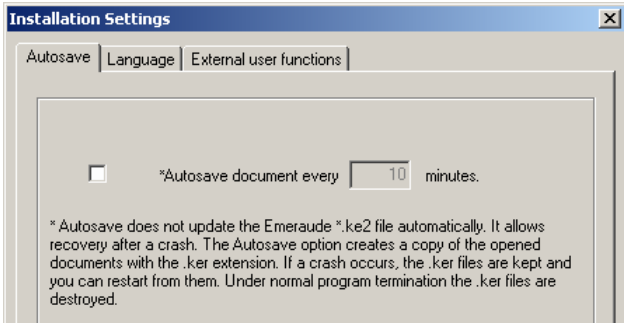
Multiple probe tools
View/Edit current tool definitions and color scales for image views.

Settings are stored in the Windows registry. It is possible to export the settings from one machine to another with the Windows program REGEDIT.

D06.1 • Application

Autosave

The Autosave facility, disabled by default, is based on a user-defined timer. After a crash and a restart, Emeraude sees the presence of the temporary files created by the Autosave (.ker files) and prompts the user to restart from them.



Language

Built-in 2.40 is the possibility to switch the resource language (used for the interface and report) at run time, from English, to French or Chinese. Specific DLL for those versions are distributed separately.

External user functions

In this page, the path to user DLL's can be specified. Emeraude checks which DLL are actually compliant with the expected API and displays the list in a table below. It is then possible to display either the function name, as specified in the DLL, or the DLL name itself. Also, each individual function/DLL can be selected individually ("To use" checkbox).
See also section D05.15 in the Data browser chapter.

D06.2 • Interface

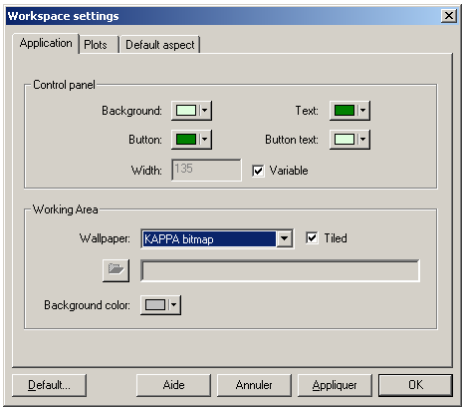
The following can be defined:

Control Panel

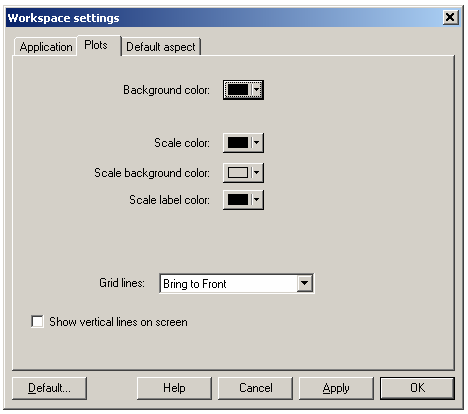
- Background color
- Text color
- Button color
- Button text color
- Fixed or variable Control Panel width

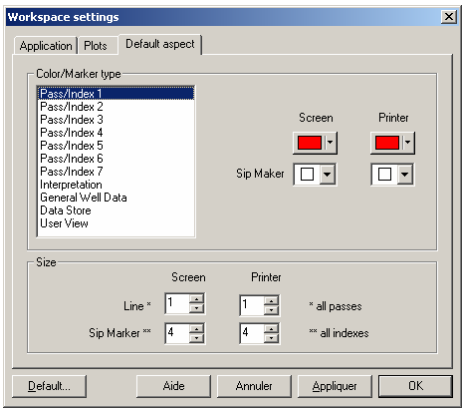
Working Area

- Background color, system or user defined
- Setting the background as a "Wallpaper" type display



In addition, this option is used to define the Default Display Settings.





Plots

The color of the background as well as the color of the scales can be modified.

The “Show grid lines on screen” check box controls the screen appearance of the vertical scale subdivisions. This value can be set, for each plot, using a thumbwheel control (see the “Horizontal scale…” option in section D03.6, and the “Log Print Setup” option in section D13.6).

When fill areas are present in a plot, you have the capability to display the grid lines either on top or behind the associated patterns. In this case, the selected option ("Bring to Front" or "Send to Back") will apply to both vertical and horizontal grids.

Default channel aspects

User defined settings of aspect logic of the curves on screen and on paper:

- Pass
- Interpretation
- General well data
- Data store
- User views
- SIP

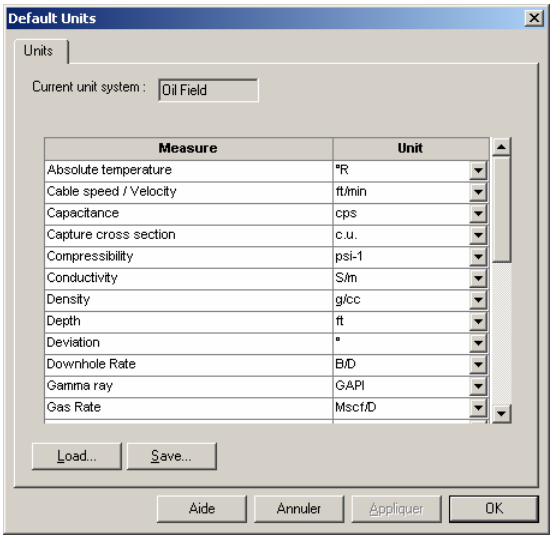
For SIP, one can select the color and the symbols associated with the SIP points.

User views can be indexed or keep the parent’s aspect.

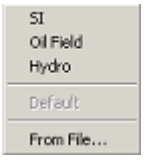
D06.3 • Units dialog

See section D01.2 for a definition of the various unit systems used by Emeraude.

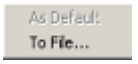
The “Units” option of the Settings panel is for editing/viewing the default system of units stored in the Windows registry. In the Document panel, the current document units are edited instead.



Load



Save…



Behavior of the various options:

Load > SI, OilField, Hydro-Geology: sets the dialog contents to a pre-defined system of units
Load > Default: sets the dialog contents to the default user units as stored in the registry.
Disabled in the Settings-Units dialog
Load > From file …: loads a unit file and set the dialog content accordingly
Save > As Default: copies the current dialog selection to the registry. The new system will be used to initialize the user units in any subsequent new session.
Disabled in the Settings-Units dialog
Save > To file …: create a unit file (extension .EUN) with the current dialog units.
OK:
• Settings-Units: saves the dialog units to the registry. This is identical to the “Load > Save as default” option.
• Document-Units: saves the dialog units to the document user units.

D06.4 • Interpretation settings

The Interpretation option of the Settings panel customization of the technical content of Emeraude, by defining subsets of correlations and re-defining defaults.

Each dialog page shows the list of built-in correlations with a check box indicating whether it will be used or not. When un-checking a correlation it will not appear in any of the program’s dialog. In particular, a disabled flow correlation will not be plotted in the Zone rates dialog.

The dialog pages can be used to define:

- Flow Correlations (and slip deviation correction for some – see Technical Reference)
- Gas PVT correlations
- Oil PVT correlations
- Water PVT correlations
- Spinner calibration modes
- Global regression options (see section D09.18 on Global regression and HGA)

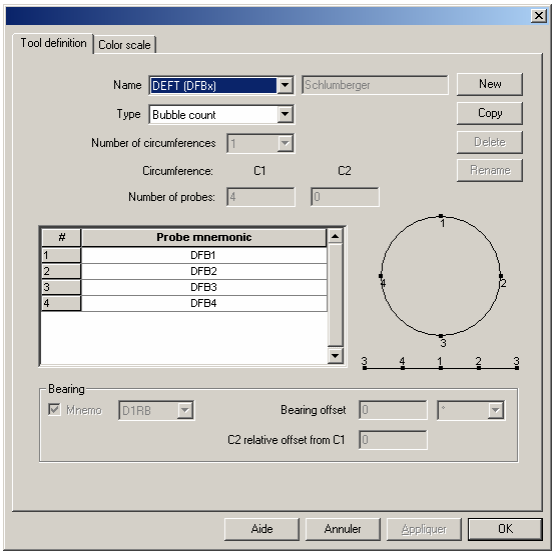
D06.5 • Multiple probe tools

The “Multiple Probe Tools” (MPT) option allows to view/edit the default settings for MPT. A first tab labeled “Tool definition” shows the available tools defined by their geometry, associated channel mnemonics, bearing. Those settings form the basis for the recognition by Emeraude of the MPT channels as such, and will ensure the access to image display as well as specific reference channel processing. Emeraude 2.40 has built-in defaults for the following tools:

- Schlumberger DEFT and GHOST tools (holdup and bubble counts)
- Sondex CAT tool (capacitance).

In the same dialog, a second tab, “Color scale”, is present to view/edit the default color scales used for the image views. 3 default color scales have been pre-defined (RWB, Blue, CAT Air-Water, CAT Water-Air, and Rainbow). These scales can be modified or new scales added.

D06.6.1 • Tool definition



In the Multiple Probe Tools dialog, a particular tool definition comprises:

- A tool / company name.
- The type of measurement associated with the probes (holdup, bubble count, or capacitance).
- The number of circumferences.
- The number of probes by circumference.
- The mnemonics for the probes.
- The tool bearing channel mnemonic.
- Possibly, a fixed bearing offset.
- For a tool with 2 circumferences, the offset angle between the first probe of both circumferences

The following definitions are built-in:

Schlumberger

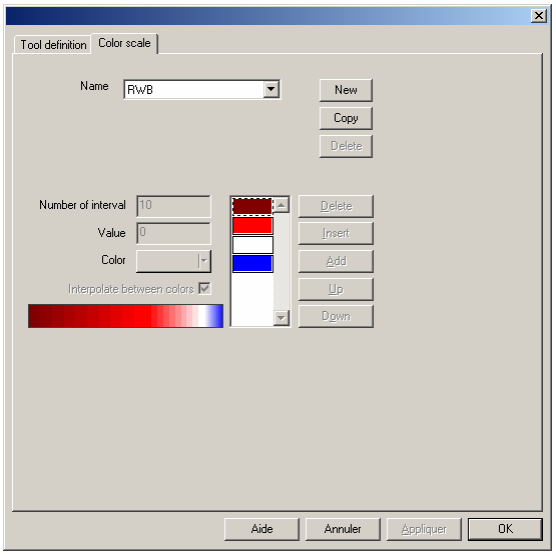
- DEFT (DFHx) : 1 radius / 4 probes (DFH1-4) / water holdup / bearing D1RB.
- DEFT (DFBx) : 1 radius / 4 probes (DFB1-4) / bubble count / bearing D1RB.
- GHOST (GHHx) : 1 radius / 4 probes / gas holdup (GHH1-4) / bearing D1RB.
- GHOST (GHBx) : 1 radius / 4 probes / bubble count (GHB1-4) / bearing D1RB.

Sondex

- CAT (single radius) : 1 radius / 12 probes (CN1-12) / capacitance / bearing RELB.
- CAT (dual radius) : 2 radius / 12 probes (CN1-6 out, CN7-12 in) / capacitance / bearing RELB.

The tool definition is the basis for producing images, or executing specific reference channel processing. When you load data for a multiple probe tool and everything complies with one of the defaults above, you will not have to change the settings. If on the other hand you are in a situation where there is a difference, e.g. different mnemonics, you will need to create a new tool definition either starting from scratch (button “New”) or modifying an existing definition after a “Copy”.

D06.6.2 • Color Scale



Several color scales are predefined on a normalized range. These scales can be duplicated and the copy modified; new scales can also be created from scratch.

RWB	0 … 1
Blue	0 … 1
Rainbow	0 … 1
CAT Air-Water	0 … 1
CAT Water-Air	0 … 1

For a given scale, one can add as many colors as desired, each color is associated with a given value, and the number of intervals between values is entered (used to interpolate between two successive colors/values). Non-linear color scales can thus be created where little changes near the bounds are highlighted. User-defined scales are saved in the registry and become accessible for any future session of Emeraude.