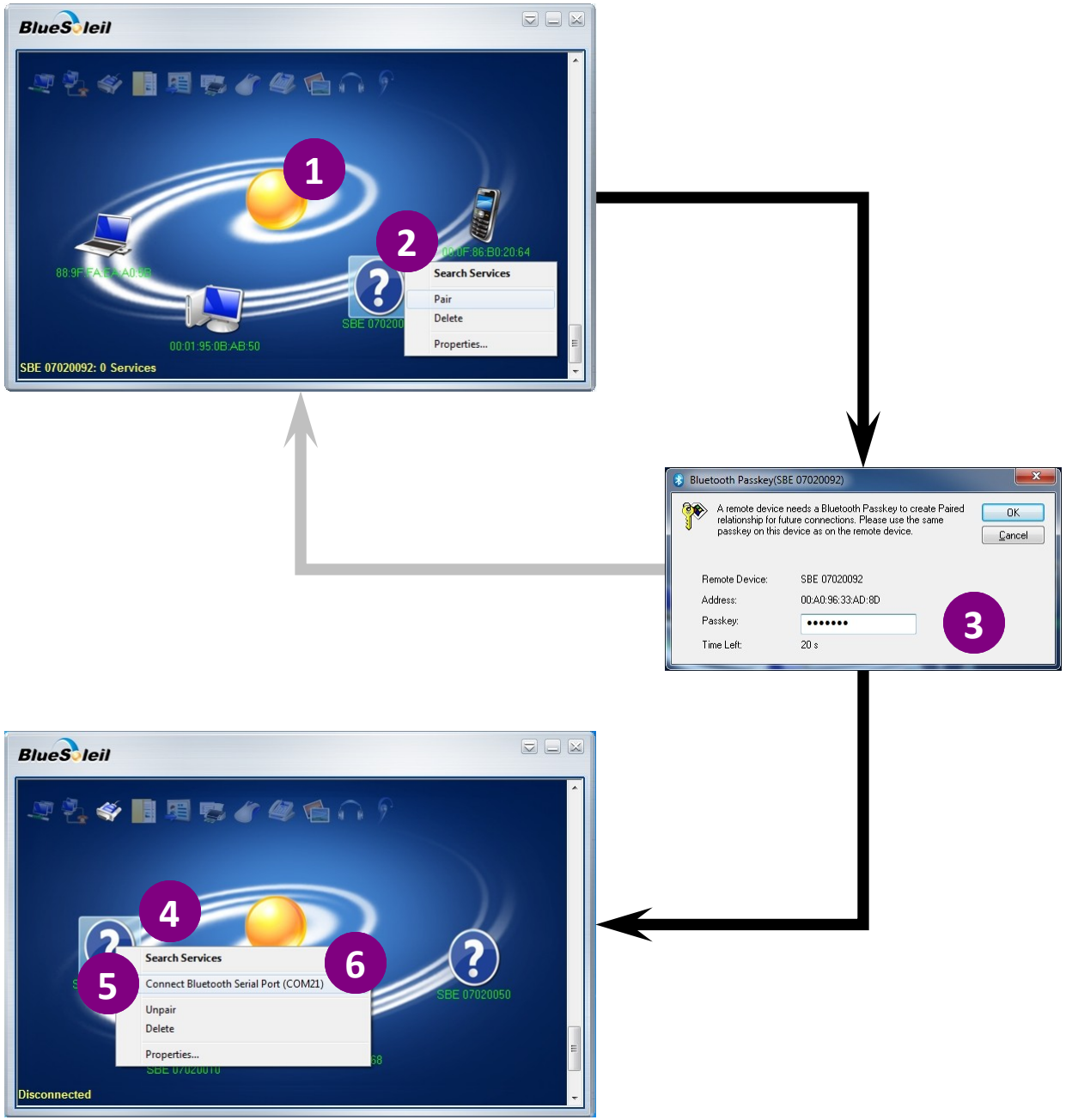
uCast Quick-Start Guide: Bluetooth Connection



1. Open the Bluetooth devices and make sure the UCTD probe is awake (cycle magnetic plug). Then double-click on the yellow button to update the list of available Bluetooth devices.

2. Right-click on the icon representing the UCTD probe and click on "**Pair**."

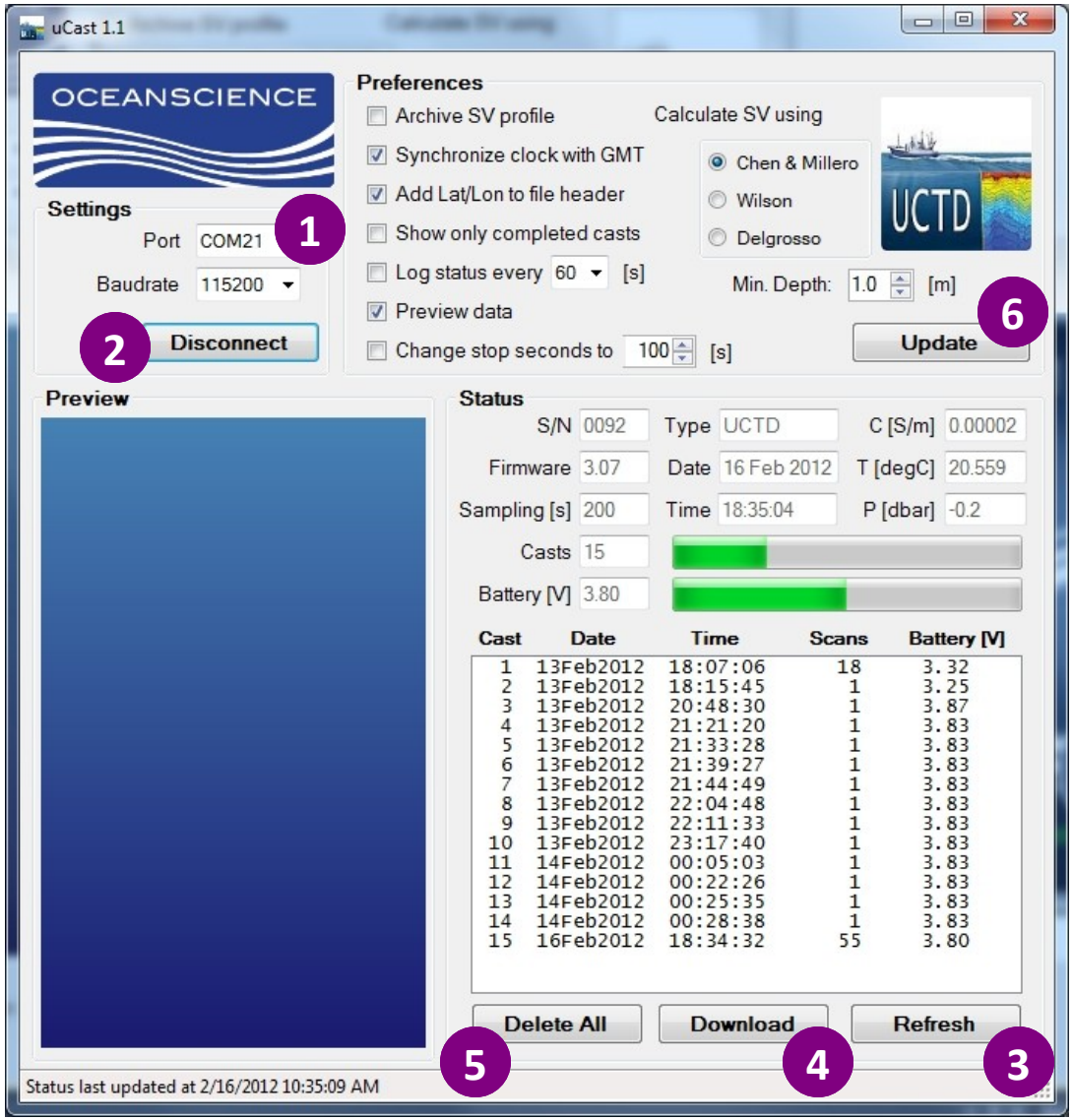
3. A new panel will open. Enter "**default**" as passkey. If pairing was successful proceed to **Step 4**, otherwise repeat the previous steps.

4. Right-click on the icon for the UCTD probe and select "**Search Services**." A "**Connect Bluetooth Serial Port**" item will be added to the menu.

5. Select "**Connect Bluetooth Serial Port**" to connect with the probe. It may be necessary to cycle the plug on the probe if two minutes have passed since pairing with the probe.

6. Note the serial port, **COM21** in this example, as this is the port that needs to be selected in the **uCast** port setting. Now start the **uCast** software.

uCast Quick-Start Guide: Command Buttons



1. Choose a serial port according to the pairing information during the Bluetooth installation.

2. Click on **Connect** button to establish link with the probe. Click **Disconnect** before pulling the magnetic plug and deploying the probe.

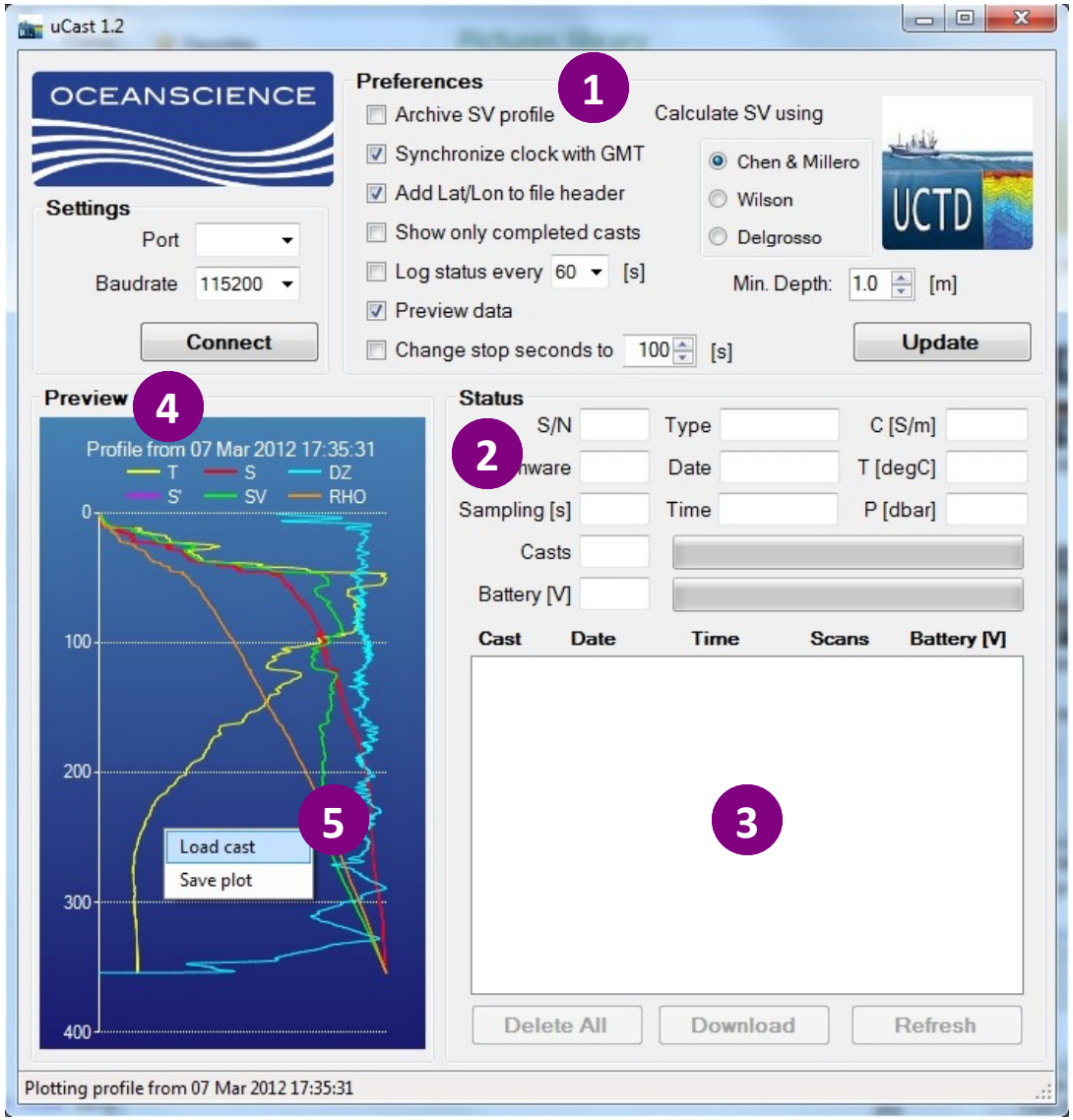
3. Use **Refresh** button to update the status information or transfer settings to the probe.

4. The **Download** button allows archiving of the selected cast to a file.

5. The memory of the probe can be cleared using the **Delete All** button. This action will delete all data permanently. Please ensure that the data have been archived.

6. Use **Update** to activate any changes during the next status refresh. If "Log status…" is checked, the software will also prompt the user for a log file then.

uCast Quick-Start Guide: Screen Areas



1 The **Preferences** area allows selection of various options, such as whether to preview the profile after download or whether to synchronize the clock on the probe. It is also possible to change the sampling duration here.

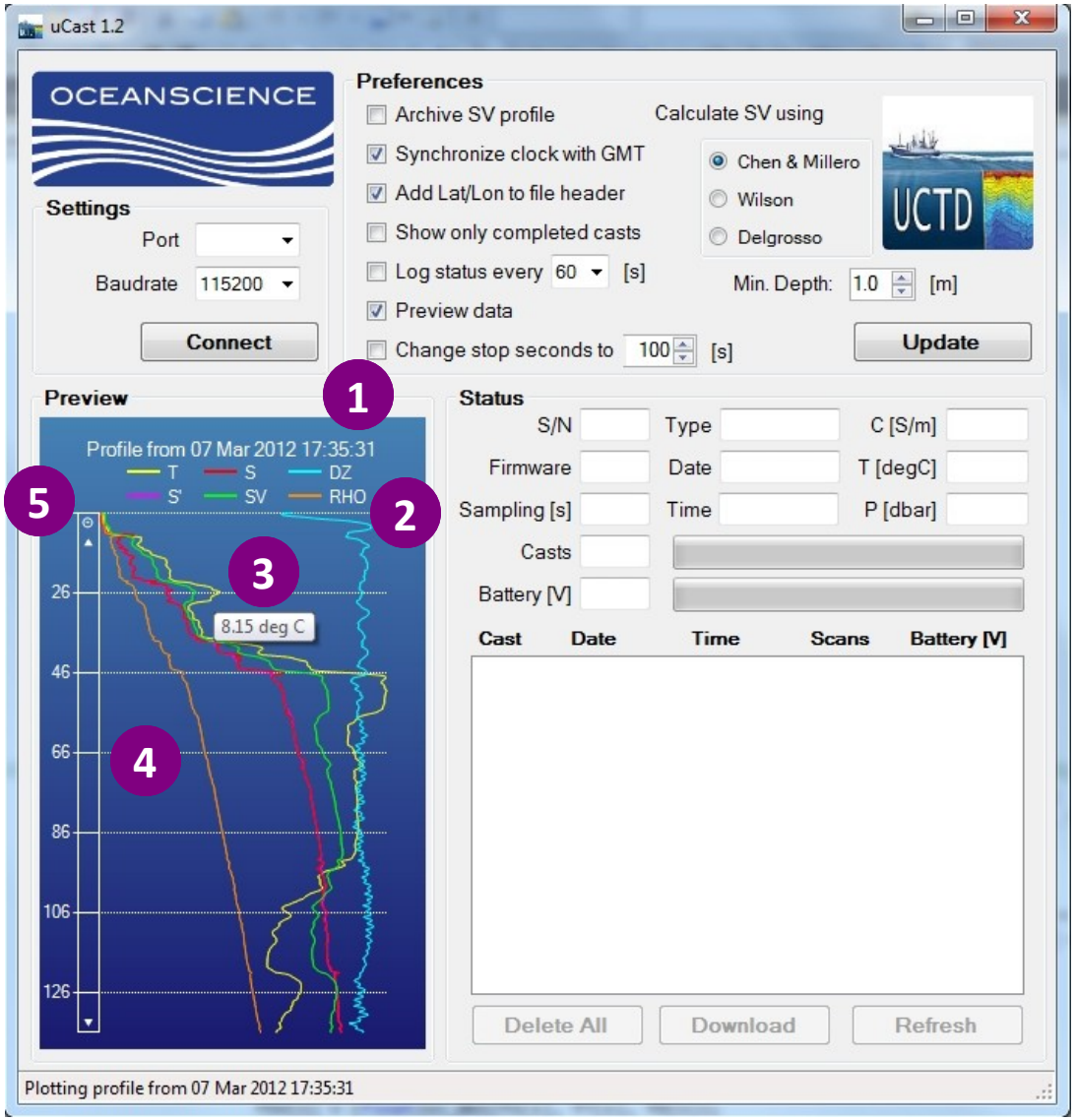
2 While a probe is connected, the **Status** area displays information about the probe's sensors, firmware, hardware settings, and data.

3 If data are currently stored on the probe, the casts are listed in this section. If the **Show only completed casts** option is unchecked in **Preferences**, all casts stored are displayed.

4 In the **Preview** section, the downcast of the profile is shown once the download from the probe has completed and the data have been archived to a file, provided the **Preview data** option is selected in the **Preferences** section.

5 It is possible to preview previously collected casts by right-clicking in the **Preview** pane and choosing **Load cast**. Selecting **Save plot** allows archiving of the current plot to a PNG image.

uCast Quick-Start Guide: Preview Features



1 After a cast has been loaded into the **Preview** pane, the **title area** will show the **time** and **date** when the data were recorded.

2 The profiles shown include only the **downcast** section of the cast for **temperature** T [°C], **salinity** S [psu], **descent rate** DZ [m/s], **sound velocity** SV [m/s], and **density** RHO [kg/m^3]. S' is a lag-corrected salinity, obtained by shifting the temperature record forward in time by one sample. This will reduce the **salinity spiking** in areas of large temperature gradients.

3 **Hovering** the cursor over a profile will display the respective value for that data point.

4 To **zoom** profiles vertically, click the left mouse button in the plot area and drag it downwards. A **scroll bar** will appear on the left side that allows to navigate through the data with a higher depth resolution.

5 To **revert** any **zoom** and reset the plot to show the complete profile, click on the circle above the upward scroll button. It may be necessary to click more than once if the zoom feature was applied multiple times in a row.