



Color by CHN Difference in HYPACK® 2013

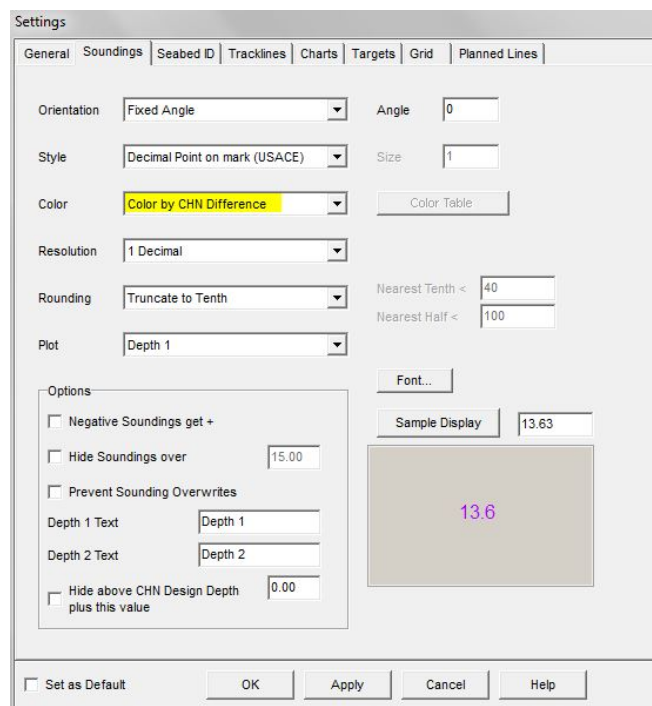
By Rob Baird

One of the new options in HYPACK® 2013 is the ability to color-code soundings and matrix depths by the channel-to-sounding depth difference. The depth difference will be displayed according to the color ranges set in the Color Settings window for both soundings and matrix depths, but only within the extents of the enabled channel file (CHN).

Color-coding Soundings in the HYPACK® Shell

1. **Open the Settings dialog** (select SETTINGS-SETTINGS and go to the Soundings tab).
2. **In the Color drop-down and select Color by CHN Difference**, as shown in Figure 1:

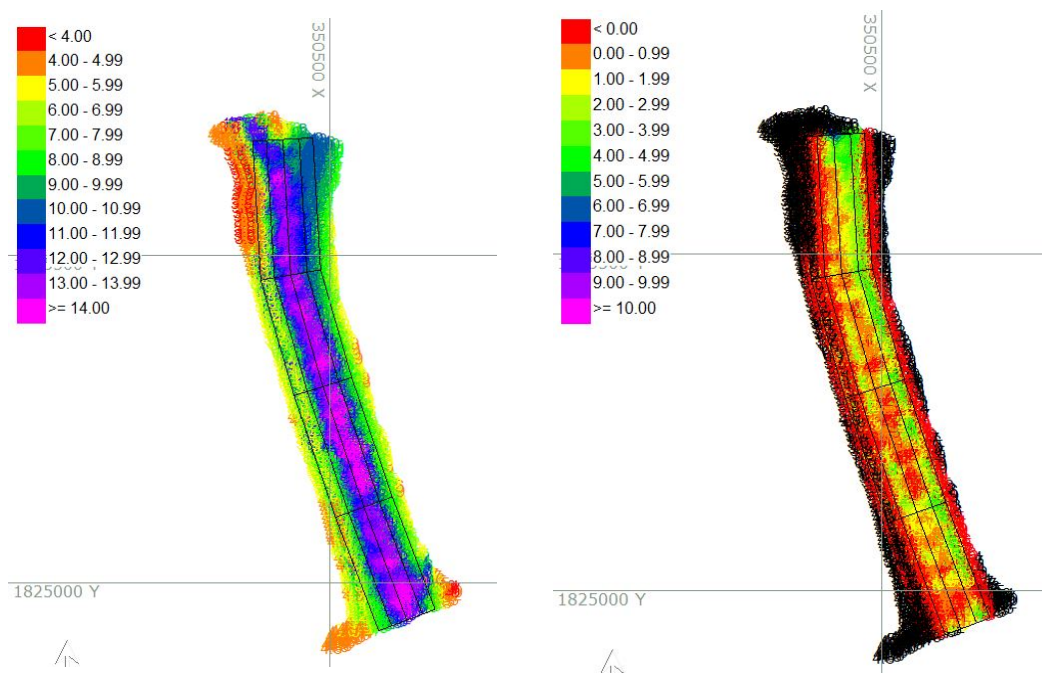
FIGURE 1. *Soundings Tab in Settings Window*



All soundings that fall outside of the channel will appear in black with the “Color by CHN Difference” option.

Observe the difference between “Color by Depths” and “Color by CHN Difference”, using the same XYZ file in the following images:

FIGURE 2. Soundings Color-coded by Depths (left), Soundings Color-coded by CHN Difference (right)

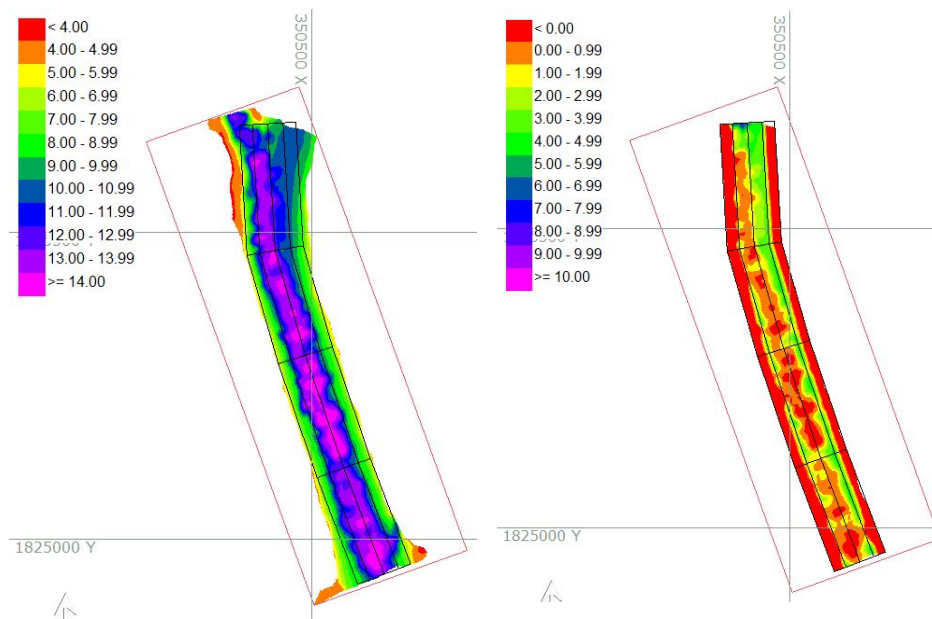


Note: You will have to change the color settings accordingly when switching back and forth between the two color-coding options.

COLOR-CODING MATRIX FILES IN THE HYPACK® SHELL

Right-click on the Matrix Files folder in the Project Files list and select “Channel – Survey”.
(The wording here is slightly different for matrix files than for soundings, but the color-coded CHN depth difference will be the same.)

FIGURE 3. Matrix File Color-coded by Survey Depth (left), Matrix File Color-coded by Channel – Survey Difference (right)



Note: While the matrix data outside the extents of the channel IS displayed when color-coded by depths, it is NOT shown in the “Channel – Survey” (CHN Difference) view.

COLOR-CODING BY CHN DIFFERENCE IN HYPACK® SURVEY OR DREDGEPACK®

You can also use the Color by CHN Difference feature in DREDGEPACK® and HYPACK® SURVEY. This option has already proven to be useful for certain dredge applications, such as when the operator wants to see a color-coded matrix view of the remaining material to be dug down to grade.

To select this option in DREDGEPACK® or SURVEY, do the following:

1. **In the Map window, select MATRIX-DISPLAY OPTIONS.** This will bring up the Matrix Appearance window.
2. **Select your display option in the Show option list:**
 - **To view the depth differences of the channel to the pre-dredge survey,** select “Channel – Survey”
 - **To update the matrix in real-time while dredging,** (available in DREDGEPACK® only) select “Channel – Dredge”.

FIGURE 4. Matrix Appearance Window

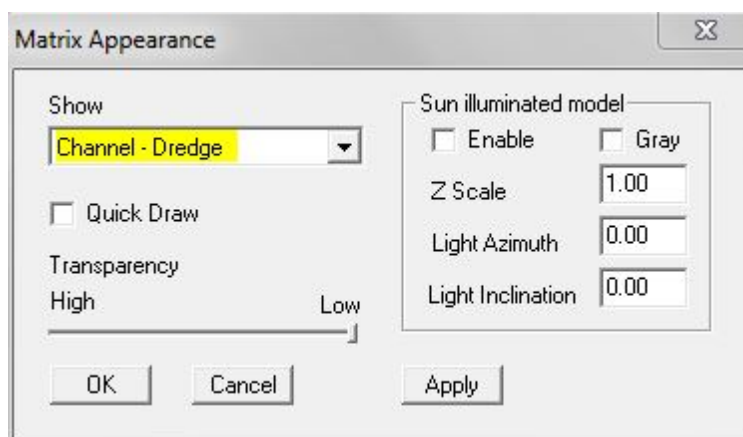


FIGURE 5. “Channel – Dredge” in DREDGEPACK®

