



Getting KP Over the Planned Line

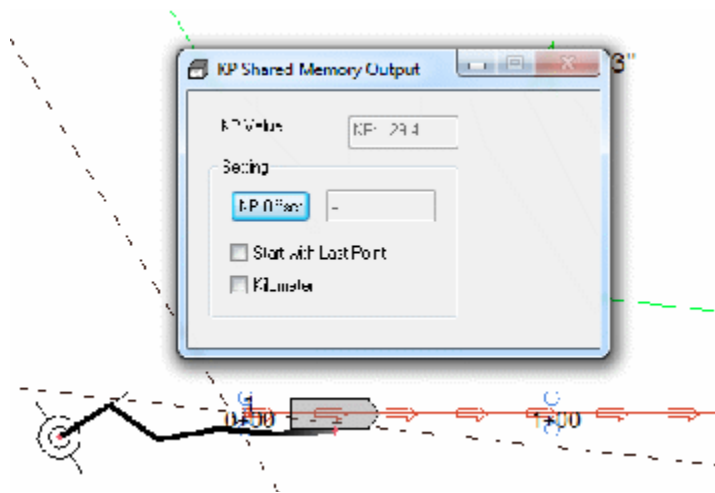
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Recently I've got a question how to get the information about KP over the planned line (for example, when surveying a pipeline). Below are three methods to perform such a task.

METHOD 1

Add a KP.DLL in HARDWARE program. This driver will automatically compute your KP over an active planned line

FIGURE 1. KP Driver Device Window:

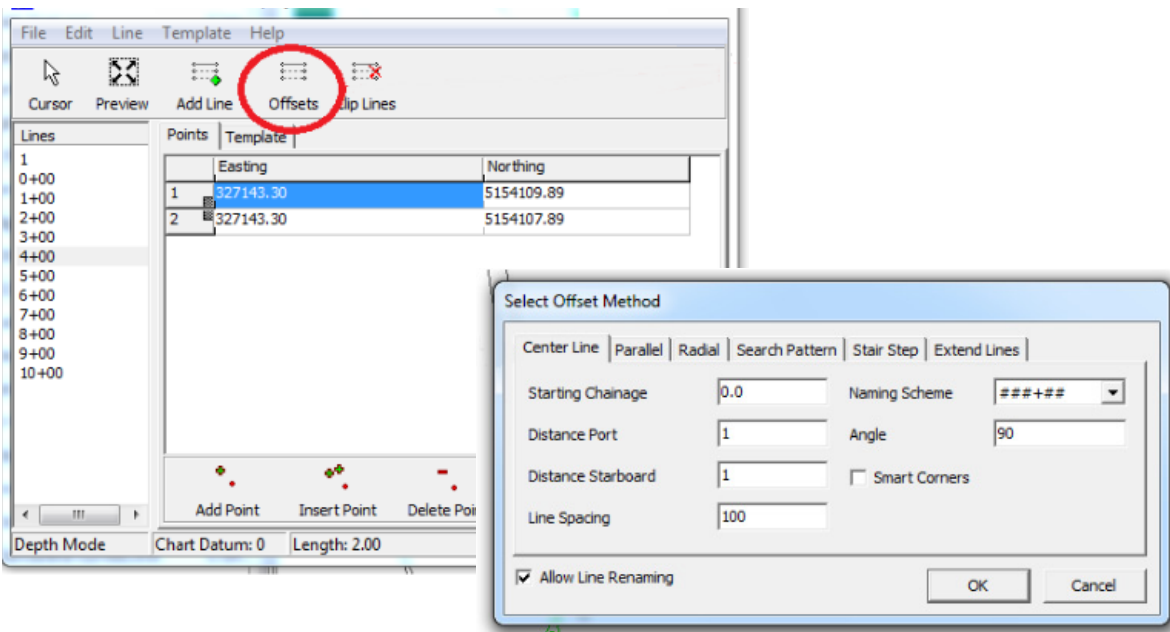


METHOD 2

LINE EDITOR:

1. **Create a main line your vessel will follow.**
2. **Create a set of short perpendicular lines** by using Centerline Offset method:

FIGURE 2. Really Short (only 2m) Perpendicular Lines to be KP Markers

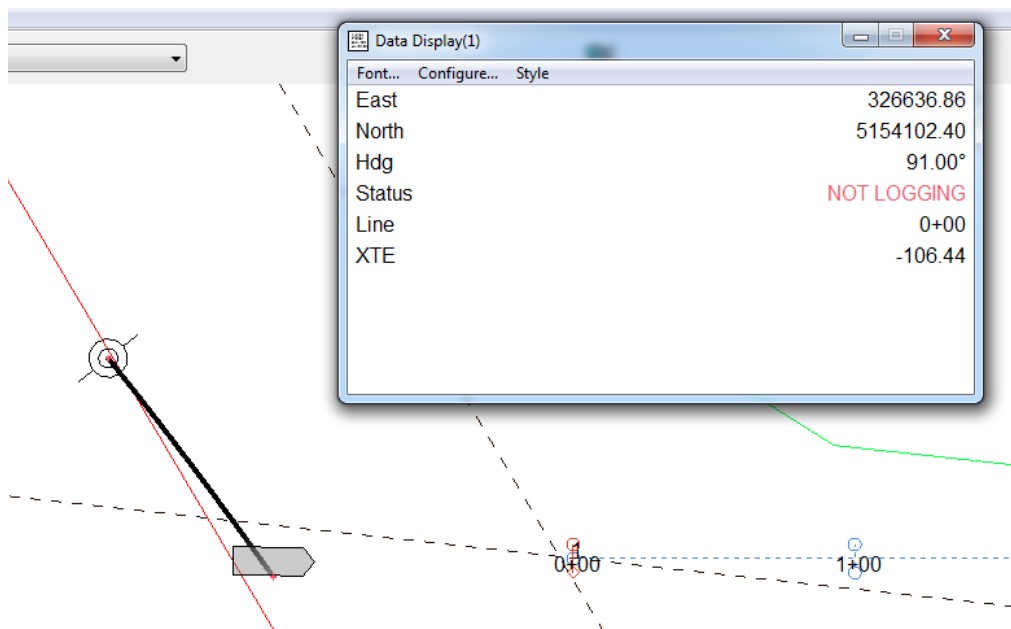


HYPACK® SURVEY:

1. **Select a perpendicular line (KP marker)** by using the Ctrl I or Ctrl D keys or the icons on the tool panel.
2. **Set the Data Display to show Line and XTE.**
 - **Line** is your KP value. (In this example, it is 0. The next line would be displayed as 1+00 means 100m etc.).
 - **XTE** will be your distance along the centerline to the selected line (KP marker).



FIGURE 3. Sample Display in SURVEY

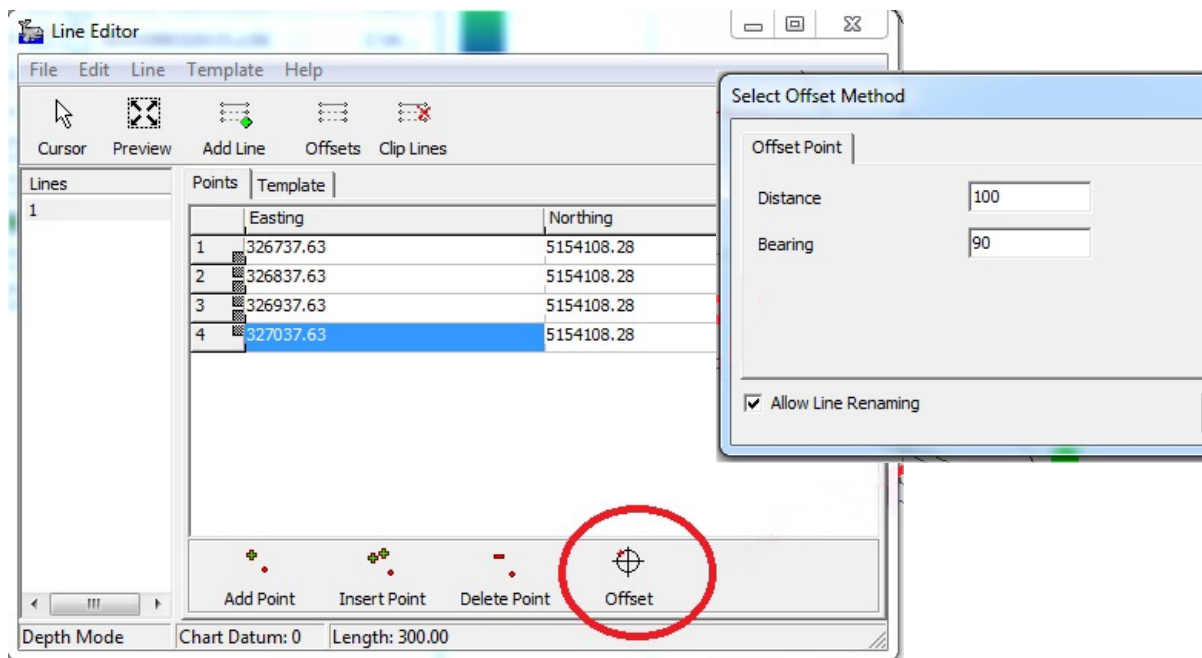


METHOD 3

LINE EDITOR:

Create a multiple-segment planned line by using Offset Point option:

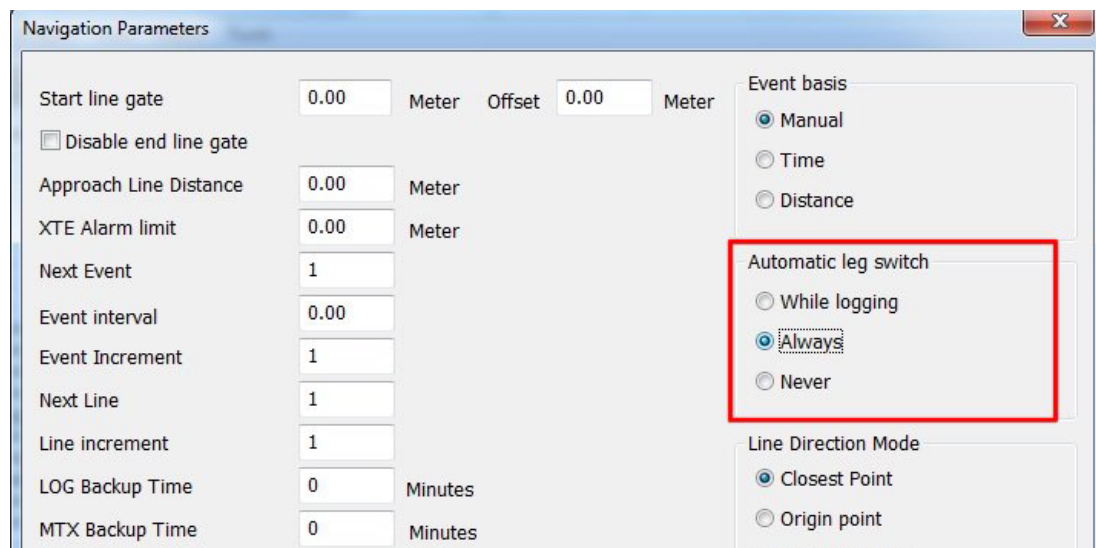
FIGURE 4. Offset Method Controls the Distance Between Waypoints



HYPACK® SURVEY:

1. In the Navigation Parameters, set **SURVEY** to automatically switch legs either **Always** or **While Logging**.

FIGURE 5. Navigation Parameters



2. **Set the Data Display to show the Waypoint your boat is approaching and Distance to Start Segment** – i.e. KP to the waypoint displayed. These items are located under Boat-Navigation in Data Display Configuration.

FIGURE 6. *Configuring your Data Display*

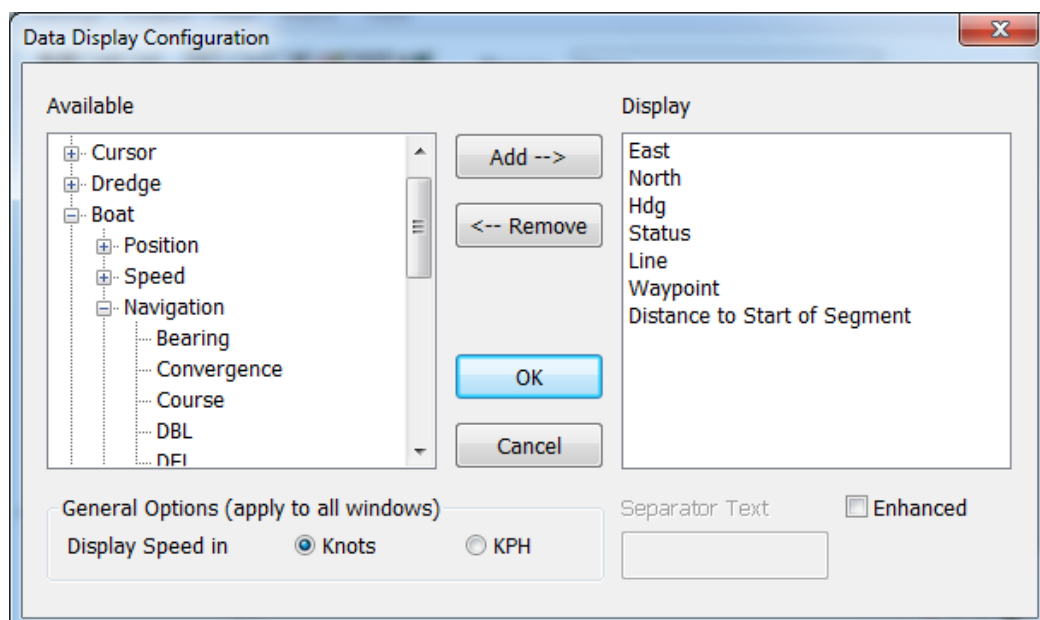


FIGURE 7. *Example of the SURVEY Screens:—In this example the boat has just passed the second waypoint and approaching to the 3rd point*

