PROCEDURE FOR TRANSFERRING DATA FROM GARMIN CHIP TO MAPSOURCE, G7toWIN AND DEPTHWIZ

A. 1. Insert card (chip) into computer. Open MapSource
2. In **MapSource**: Transfer or Receive from Device / USB Data Card (check boxes) / Receive.
Save file
Click on **Tracks** tab / click on bar with the project and open **Trackpoints** window.
Delete overlapping waypoints.
Highlight file / Save waypoints and/or trackpoints in **gdb.** format

B. Open **G7to Win** / G7toWin.exe / Run
File / Open file that was saved in gdb. format
Tracks List will show downloaded waypoints, Lon, Lat, depth, time, temp
Save As: Chose folder and file as **.wiz** file

C. Before opening DepthWiz, in addition to the data collected during the survey, have the following info available:
Chart No, Edition and Date
Location of Survey midpoint: Lat and Lon; location on chart e.g. K-K to L-L
Distance from Tidal Bench Mark to approximate midpoint of survey area
GPS make model and software version (firmware)
Time of first and last waypoint.
Participants USPS certificate numbers. Also Time spent on project.

D. Open **DepthWiz** and select **DATA / WAYPOINTS DATA SET WIZARD** (not Trackpoints).
Step 1.1 Select **Import Waypoints** and open **.wiz** file.
Step 1.2 Change to **DATA BUILDER PARSER**
Step 1.3 Proceed and Import this file…. **YES**
Step 2 Review Data. Uncheck unwanted data and Depth Readings below 2 ft.

Step 3: Select **INPUT**, then on 3.3 select **NO** (used for manual input only)

Step 4.1: Select **Depth Chart**
Step 4.2: Provide name
Step 4.3: Enter Date, Start and Ending Time
Step 4.4: Map Units, select STATUTE
Steps 4.16, 4.17 and 4.19 Enter value only – omit units

Step 5 Continue
Step 6 **UTC Time Correction** – enter **Offset**
Step 7 Transducer Depth Correction **INPUT** enter value from pole measurement
Step 8 Tide Corrections: Select **TIDE CORRECTION.** When there is no tide:
Step 9.2 Enter all. First Tide: Enter Survey date and time as one hour prior to start of survey.
Next Tide: enter Survey date and time as one hour after completion of Survey.
Height: enter calculated value (difference between measured water level and MLW)

Step 10.2 Select #1 Benchmark
Continue with remaining steps

Save Data in .dww

E. Open **DepthWiz Checker.exe file.**

Review data for accuracy and Save

F. To review dww file: in Depth Wiz open **File / DEF File Editor / Open** DWW File **/ Entire DEF File.**

G. Step 1 For this step the Google-Earth chart or nautical charts needs to be prepared in Portrait orientation to receive the soundings overlay. The copy of the chart (obtained via screen capture) must be perfectly aligned in a N-S direction and two Lat Lon reference points shown in the UR and LL. Then the entire chart has be lightened (use program such as Publisher).

Step 2 Open Microsoft Publisher (pub) / **Insert** on tab then on **Picture** icon (import picture from G. Step 1).

To lighten picture click on **Picture Tools / Format** click on **Brightness** then click on **30%** and save.

On lightened picture click on **Draw Text Box** and place it in the UR and enter the Lat Lon values, font approx. 16

Repeat at the LL

Save with a unique name

Open **DepthWiz** click on the tab **Charts / Depth Chart Wizard / Select**

Step 1 Import Data

Step 1.1 Select DEF file from Step F

Step 1.2 Import

Step 2 Review

Step 3 Select the **Picture** from G (last file, lightened with Lat Lon entered UR and LL

Step 4 Calibrate by entering coordinates shown in picture on UR and LL corners. Select the proper format to express DMS.

Step 5 Customization: Uncheck title, Select suitable Font

Continue until finished, save picture with unique name and print

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DEPTH SURVEY CHECK LIST

NAME OF SURVEY: _____ Date _____

A. Tidal Bench Mark Data:
Time: _____ Vert Dist to Water: _____ inches TBM Description:_____
_____
_____

B. Program GPS/Sounder: Make_____Model_____Software Ver_____
Vessel Information: Make_____OAL_____Inboard; Outboard; I/O

GPS Data:
Set Track Recording to Distance and 0.01 nm (60.8 ft)
Mode: Fill
Set Sonar to 200 Mhz mode. (Use 50 Mhz for depths >600 ft)
Activate Survey Route

C. Wind Data and Transducer Calibration:
Head boat into wind; record direction and approximate speed: _____
Transducer Calibration: Water depth with rod: _____Ft; Three boat passes: ____ ; ____; ____ at ____ kn. Avg _____ Ft

Check Water Temp _____ deg F
Reset Track log, Trip Tab, Time etc

D. Start Survey
Time _____ WAAS on? ____; No of Satellites ____ Accuracy _____
Perform Confidence check: On-Board GPS: Lat _____; Lon _____
Handheld GPS: Lat _____: Lon _____

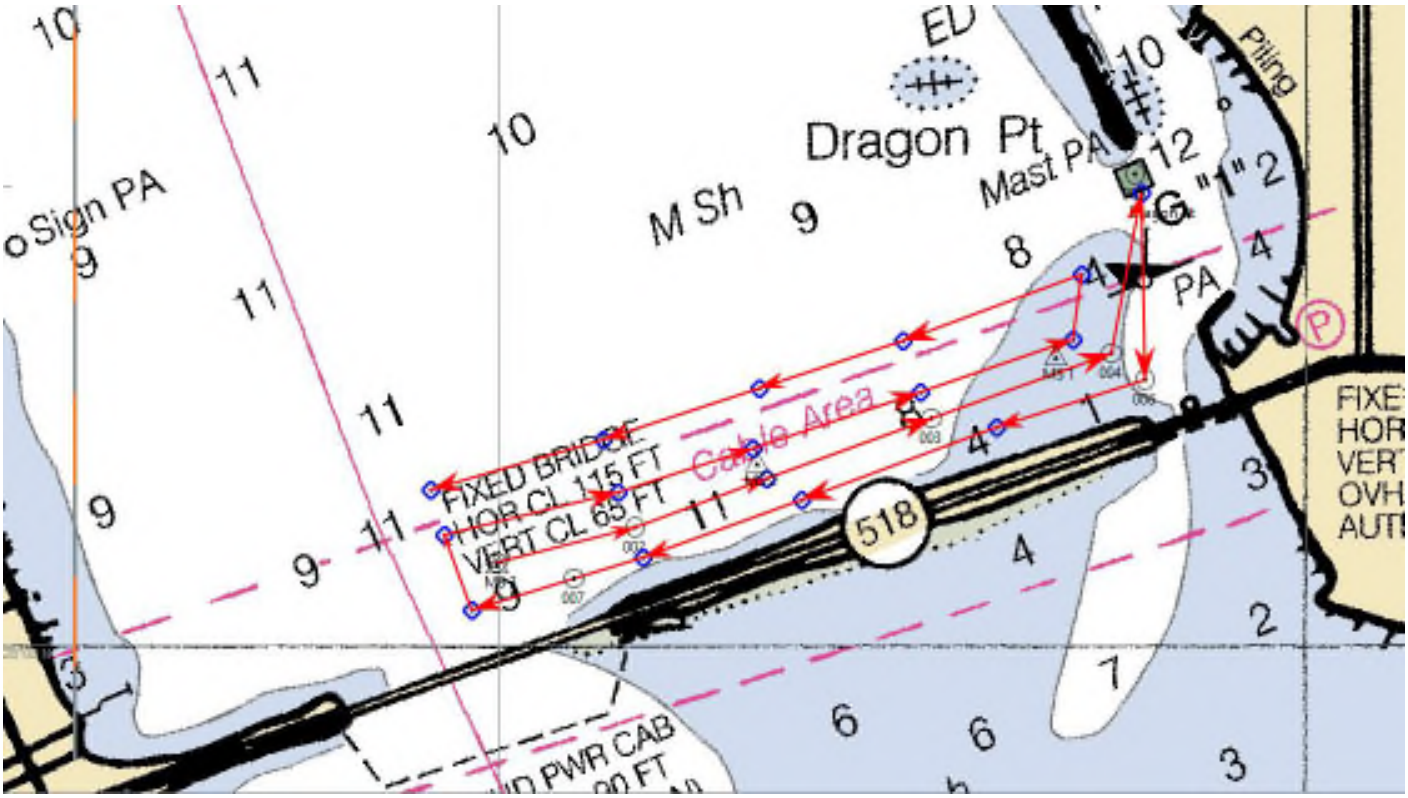
E. Halfway Data
Time _____ WAAS on? ____; No of Satellites ____ Accuracy _____
Coordinates: Lat_____ Lon_____

F. Continue with Survey
Time _____

G. Do the following AFTER completion of run:
Time of Last Waypoint: _____
GPS Data: Time _____; WAAS on? _____ No of Satellites ____;
Accuracy _____ ft; Lat _____; Lon _____
Head boat into wind and record direction and approximate speed: _____
Water Temp ____ deg F
GPS Trip Data: Total Time:_____; Avg Speed: _____ kn; Max Speed: _____ kn

H. Save Track Data to Memory Card

I. Tidal Bench Mark data:
Time:_____ Vert Dist to Water:_____


Dragon Pt
Mast PA
G "1"
PA
M Sh
Sign PA
Piling
FIXED BRIDGE
HOR CL 115 FT
VERT CL 65 FT
Cable Area
518
PWR CAB