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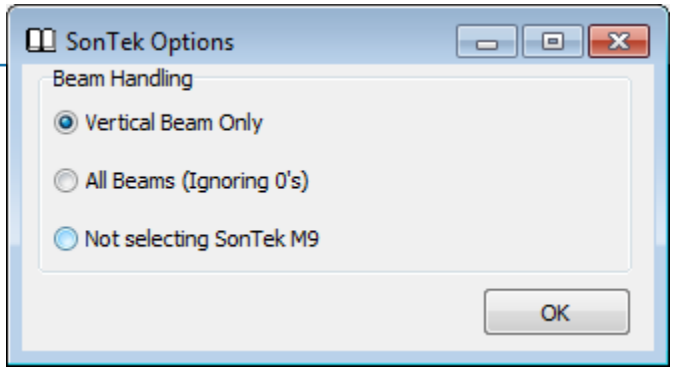
Processing RAW Files Containing both SMI records & Multi-Transducer Data

By Joseph Adamski

I was recently sent a RAW file that someone was trying to open in SBMAX32 (32-bit SINGLE BEAM EDITOR) with limited success which contained both SMI environmental data and records from a multi-transducer device. The work flow for both these records involves SBMAX32 prompting you with a special dialog before selecting a device. It was obvious there were some conflicts when both device types were contained in the same file that needed to be resolved. The following is the updated process, which requires a new version of SBMAX32 if you are collecting files such as these.

CASE 1: LOADING THE ECM DATA

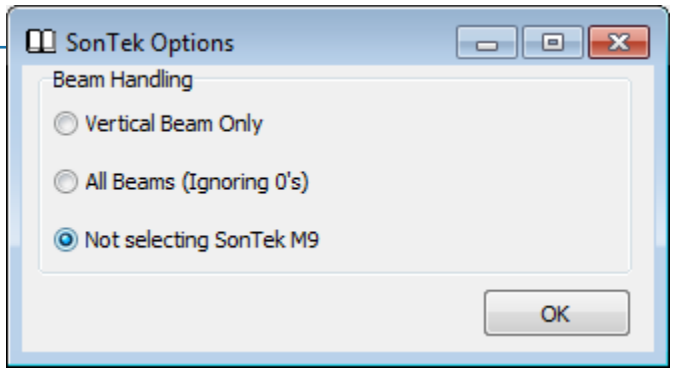
FIGURE 1. ECM Window for SonTek HydroSurveyor



Loading the ECM data is fairly intuitive. Upon selecting the RAW file, the ECM window will pop up (Figure 1) and you can select which transducers you would like to see. After that, simply make sure the multi-transducer device is selected as the echosounder device in the Read Parameters window. Press [OK] and everything should load fine.

CASE 2: LOADING THE SMI RECORDS

FIGURE 2. Not Selecting Sontek M9



Loading the SMI records feels a bit odd as you must still navigate through the ECM window. When the ECM window pops up, you can select just about anything and we should still be able to load the SMI records. I usually select “Not selecting SonTek M9”, just to be safe, when using the SonTek HydroSurveyor (Figure 2). When the Read Parameters window comes up, you should simply select the SMI record device as the

echosounder. You will then get the SMI record window and be able to select which items to load (Figure 3).

FIGURE 3. *SMI Selection Window*