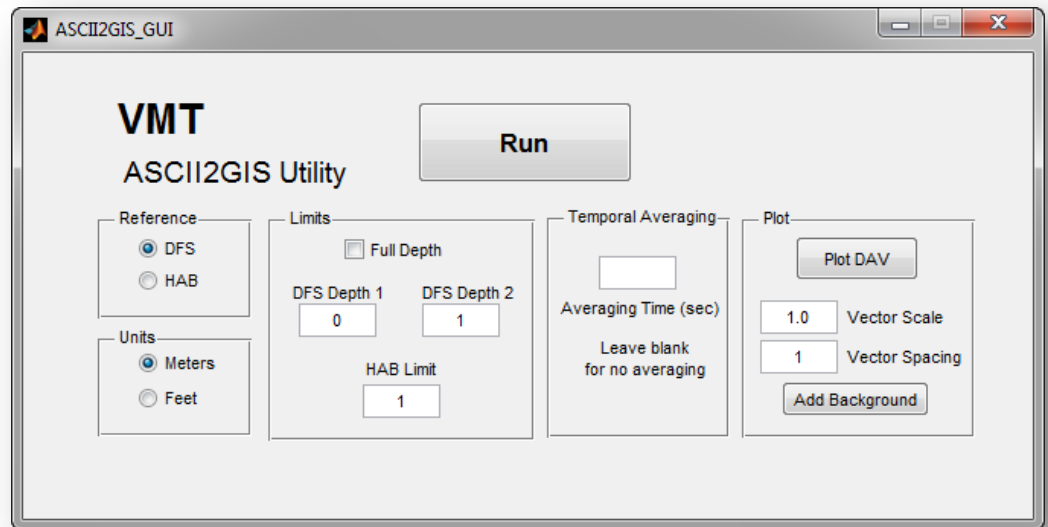
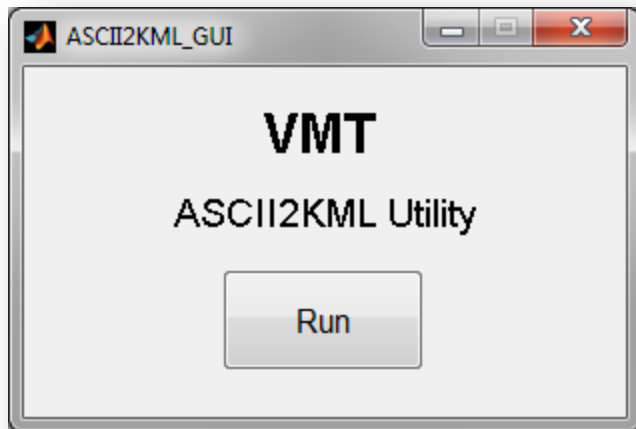


VMT Utilities



Standalone Utilities

- The Velocity Mapping Toolbox includes several standalone utilities that run independent of the main VMT GUI
- Utilities include:
 1. ASCII2KML (shiptracks to Google Earth)
 2. ASCII2GIS (Depth- or layer-averaged ADCP data to text file formatted for GIS import, can include temporal averaging)

Others under development for stationary data processing and SSC computation

ASCII2KML

Purpose:

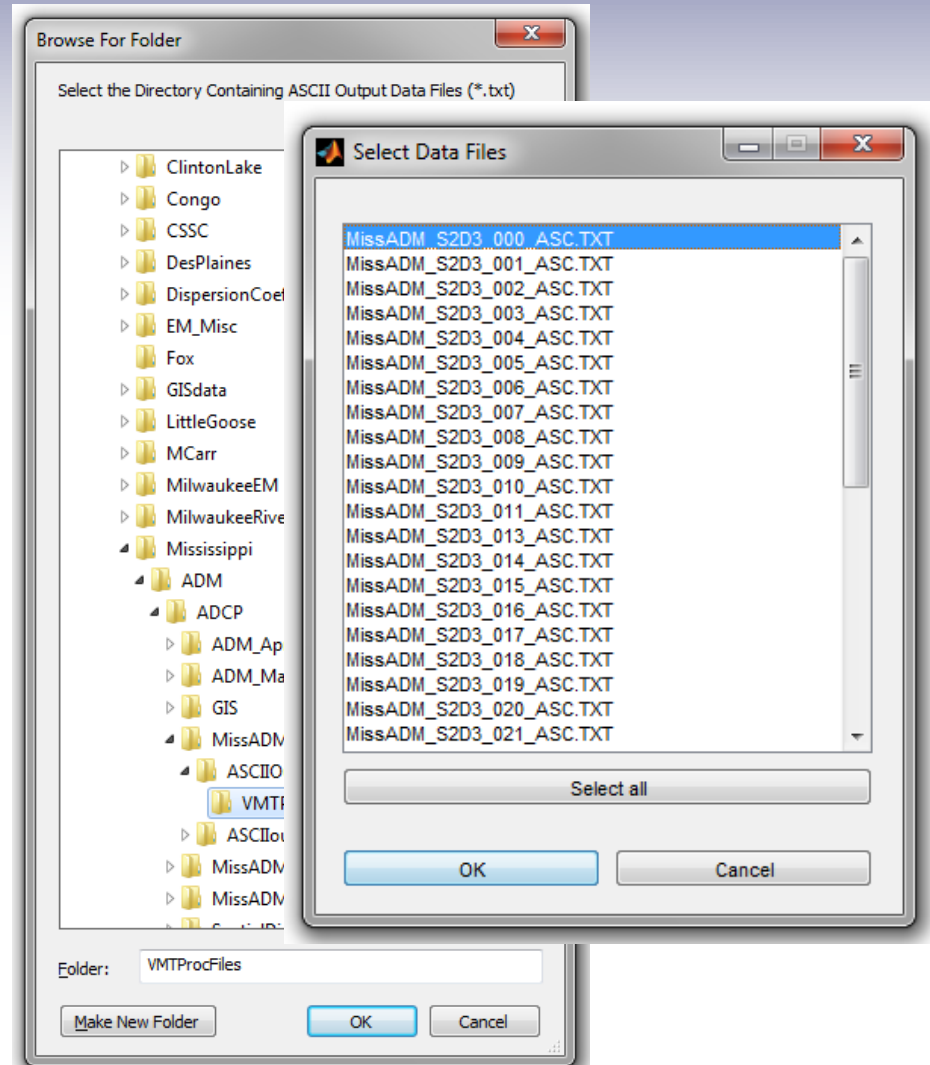
To allow a user to quickly identify location of transects for evaluation and grouping

Example #1:

You complete a survey and your field notes are lost. You cannot identify which transects are at specific cross sections.

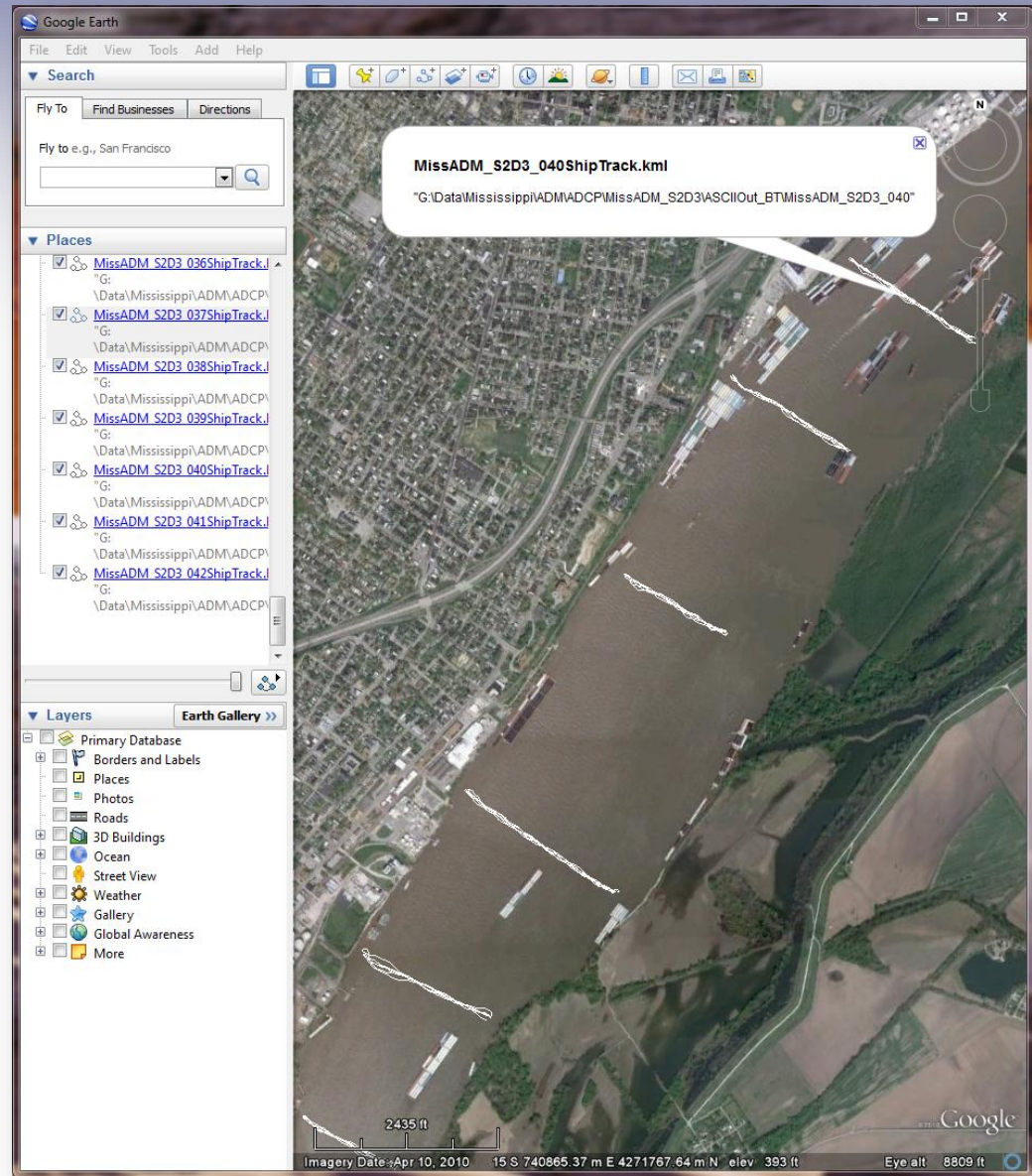
Example #2:

You identify a strange velocity distribution during data review. You want to understand more about the location of the measurement.



ASCII2KML

- Creates KML files in the measurement directory
- Open Shiptrack KML files in Google Earth
- Allows quick identification of transect groupings

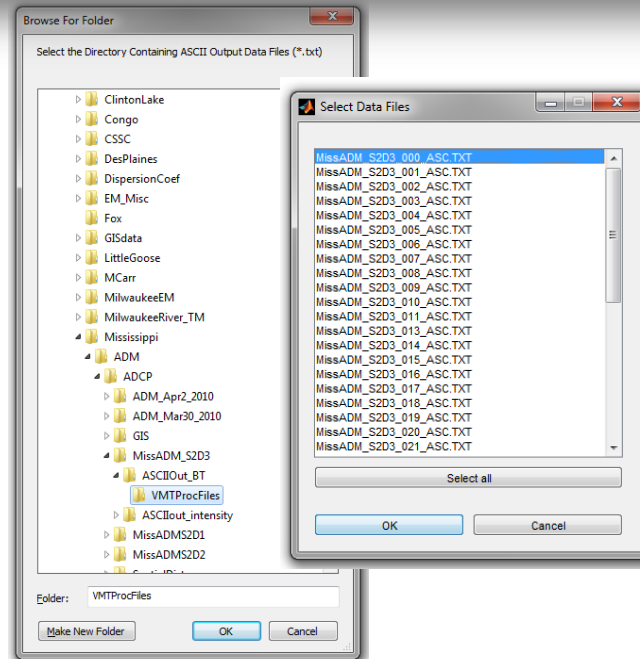
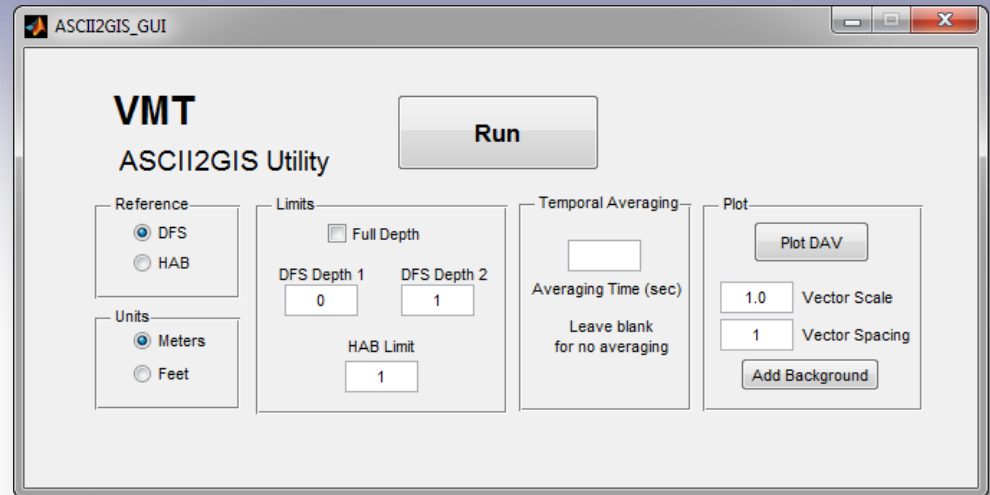


ASCII2KML DEMO

ASCII2GIS

Purpose:
To allow averaged ADCP data to be easily imported into ArcGIS

Example:
You complete a sweep survey (serpentine route) and would like to evaluate the distribution of depth- or layer-averaged velocity and backscatter through your survey reach.

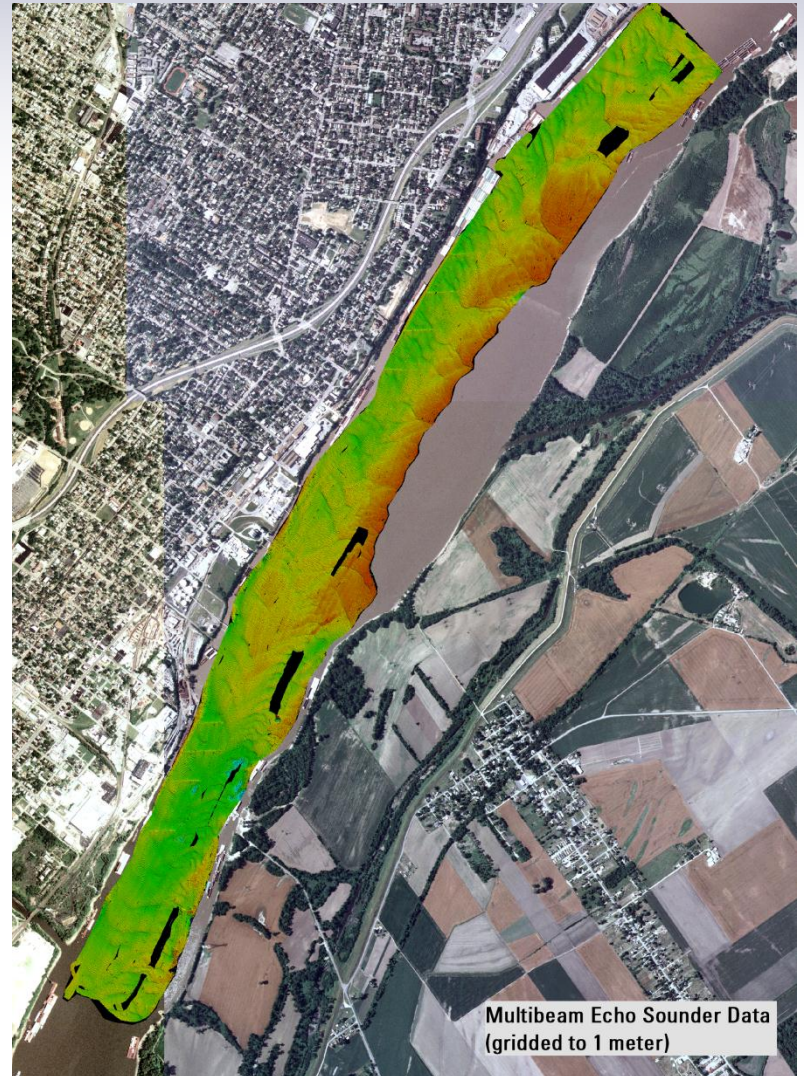


Example: MBES/ADCP Survey

Shiptracks

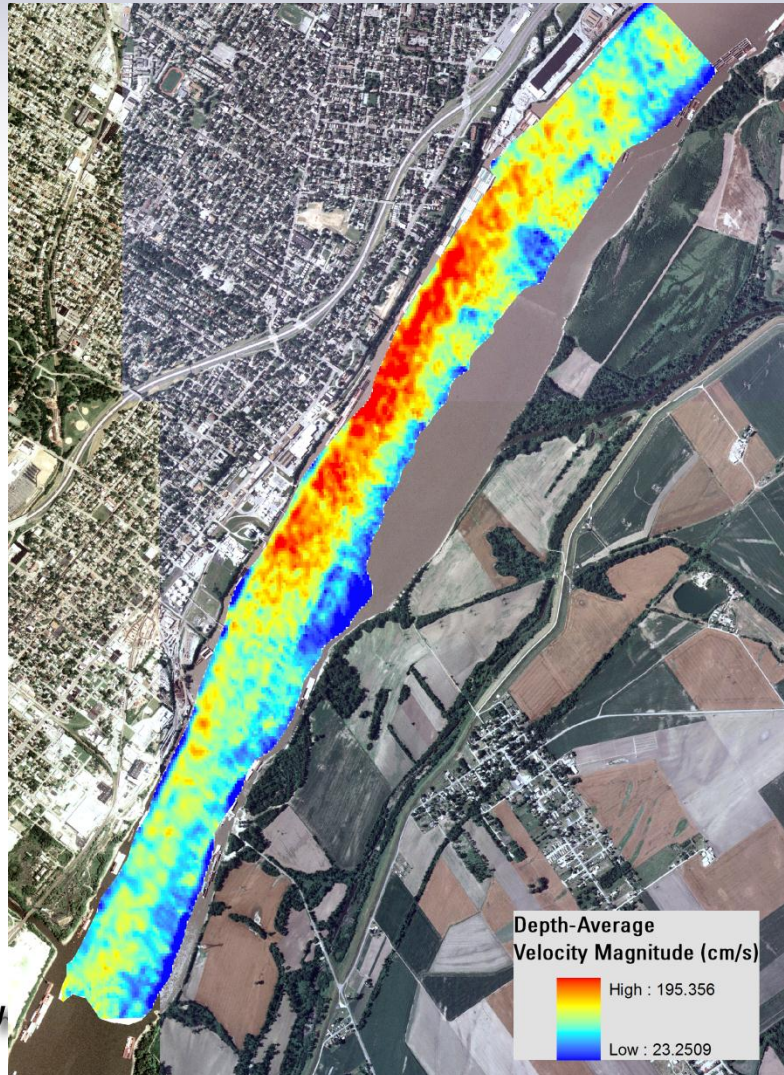


MBES bathymetry

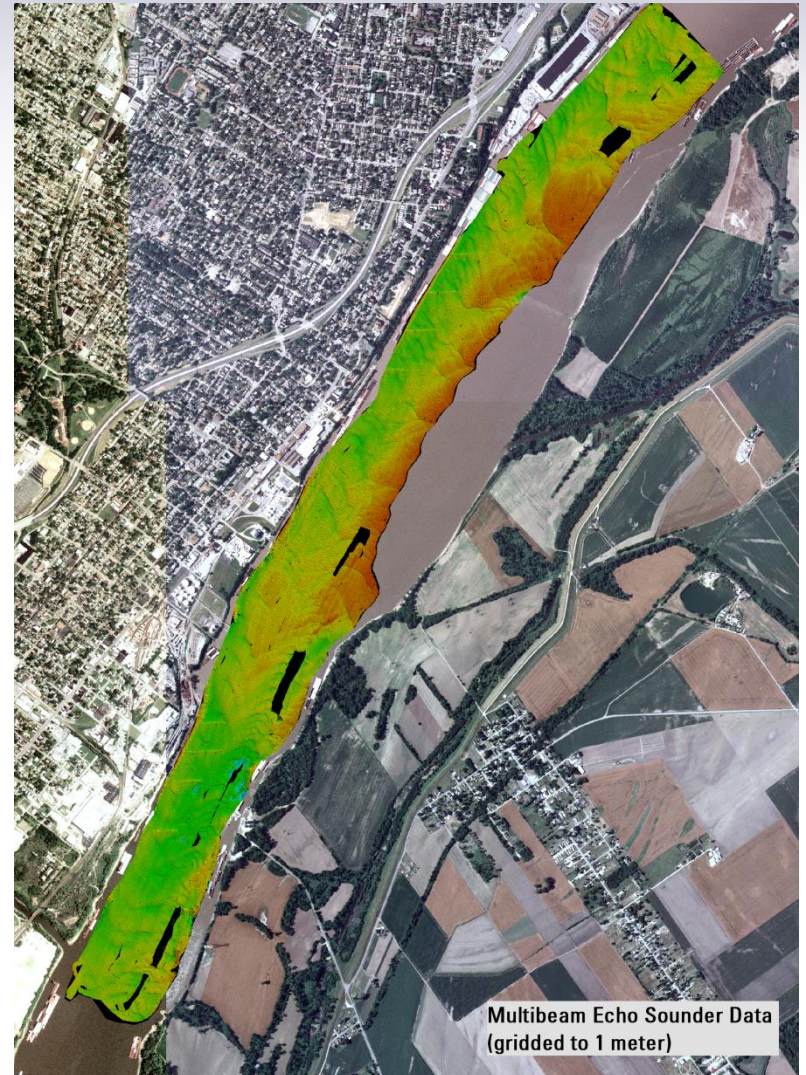


Example: MBES/ADCP Survey

Depth-Average Velocity Mag

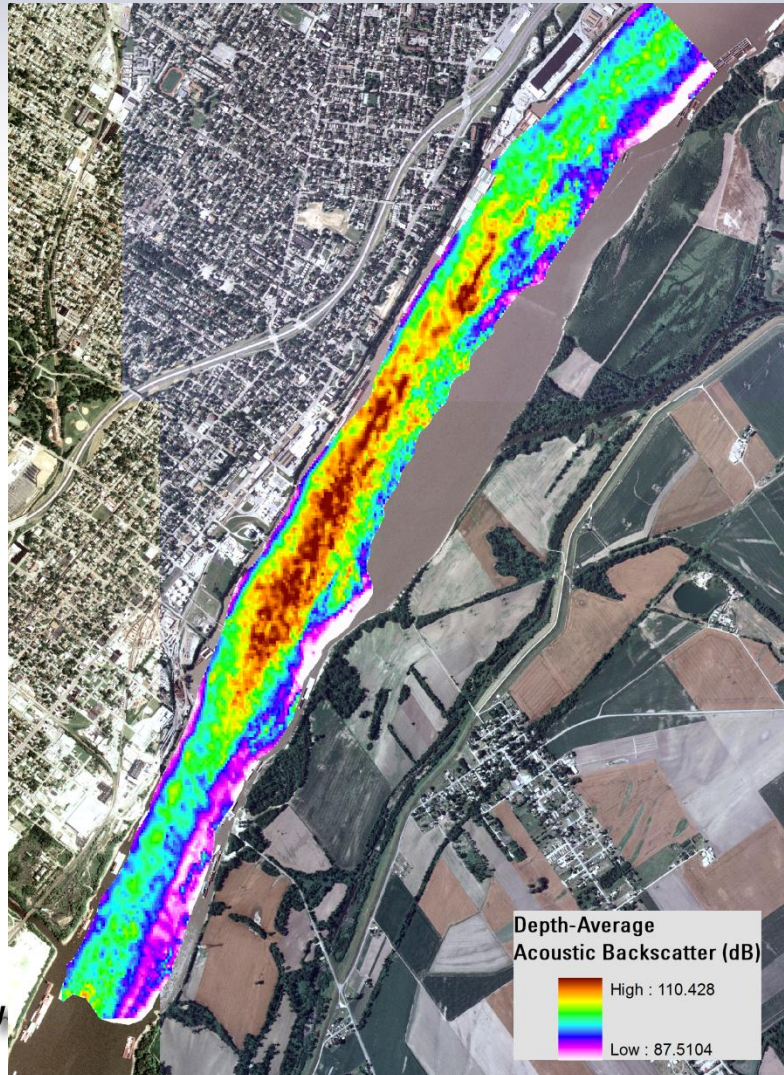


MBES bathymetry

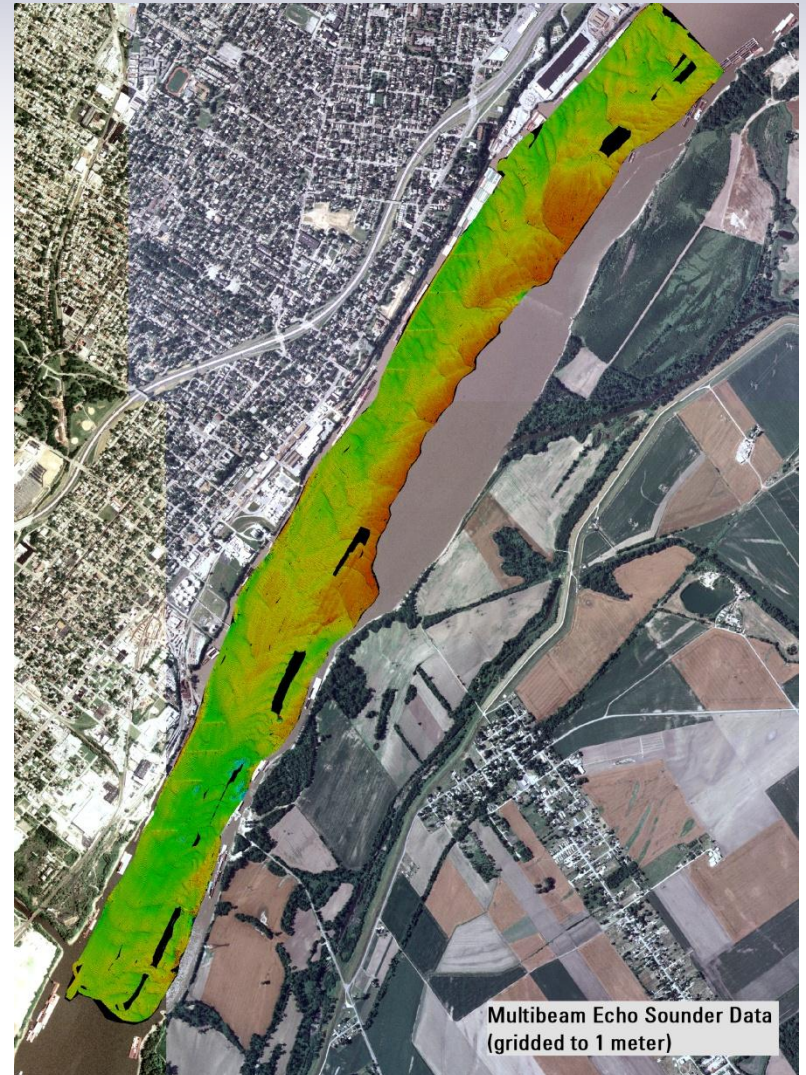


Example: MBES/ADCP Survey

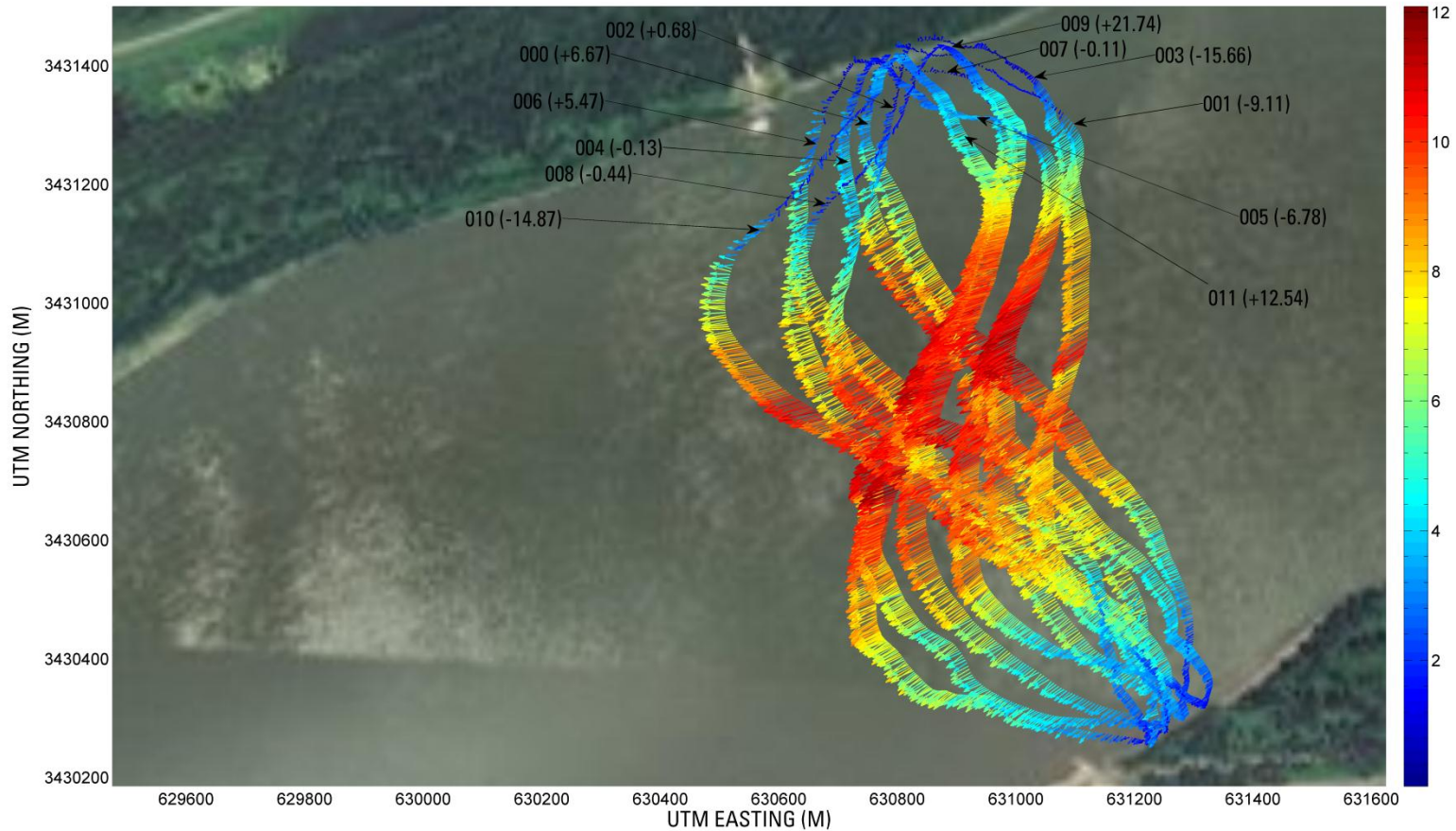
Depth-Average Backscatter



MBES bathymetry



Example: Plotting DAV along shiptracks (Mississippi River Flow Pulsing 2011)



ASCII2GIS DEMO

Questions?

