

# Getting HydroPlus CE Data into ArcGIS

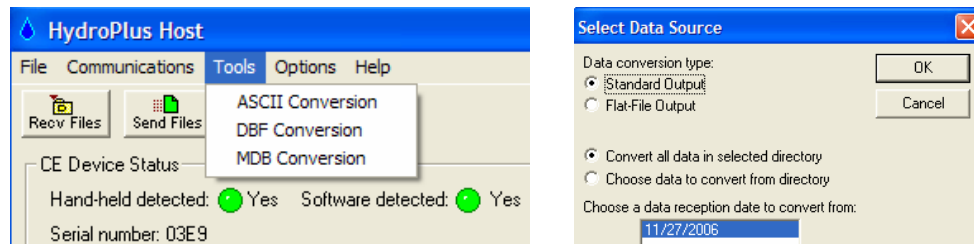
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## Introduction

Data created by HydroPlus CE is already in DBF format and contains XY (Lat/Long) data. Therefore, these files can be used in ArcGIS without any conversion. However, since multiple data files may be created for a particular day's work, you may wish to use HydroPlus Host to output a single DBF file for each file type (Grab Sample, Timed file, etc) for each day, or output an MDB file that you can connect to in ArcGIS. Step-by-step instructions for doing this follow.

## I. Generate DBF or MDB file with HydroPlus Host.

- 1.) Establish an ActiveSync connection with the Windows CE device.
- 2.) If HydroPlus host doesn't automatically open, select Start>Programs>HydroPlus CE and click HydroPlus Host to open it.
- 3.) From the Tools menu select DBF or MDB conversion to open the following window:



- 4.) Choose a directory to perform the DBF conversion from and click OK.
- 5.) Choose an output directory and click OK to complete the conversion.

*Note: DBF or MDB conversion can be automated in HydroPlus Host. See Options > Automation Options in HydroPlus Host for more information.*

ELECTRONIC

DATA SOLUTIONS

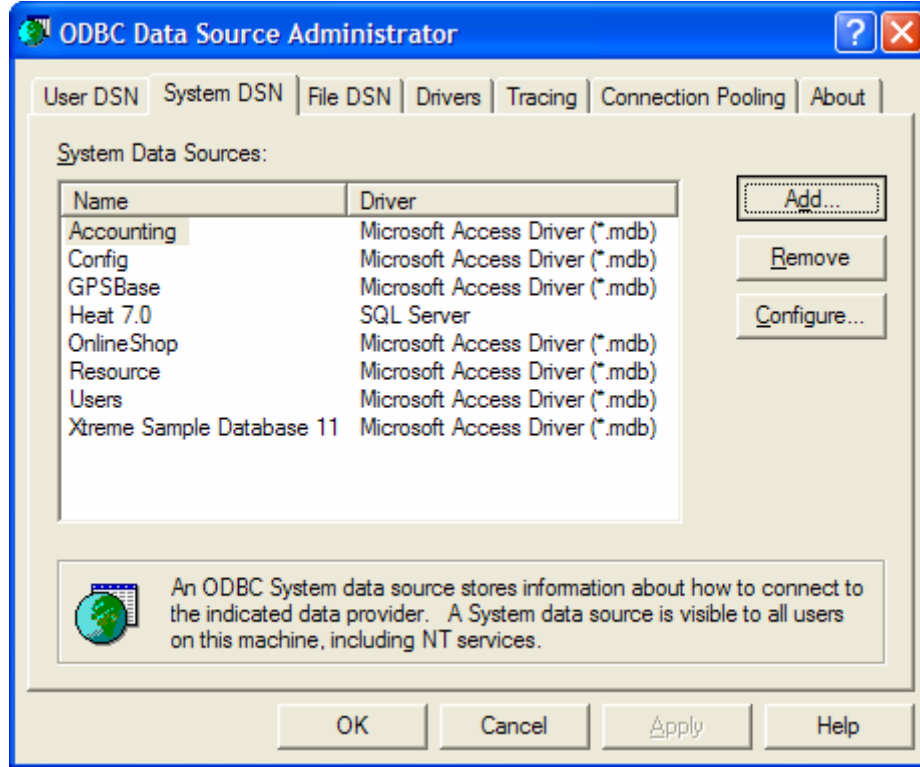
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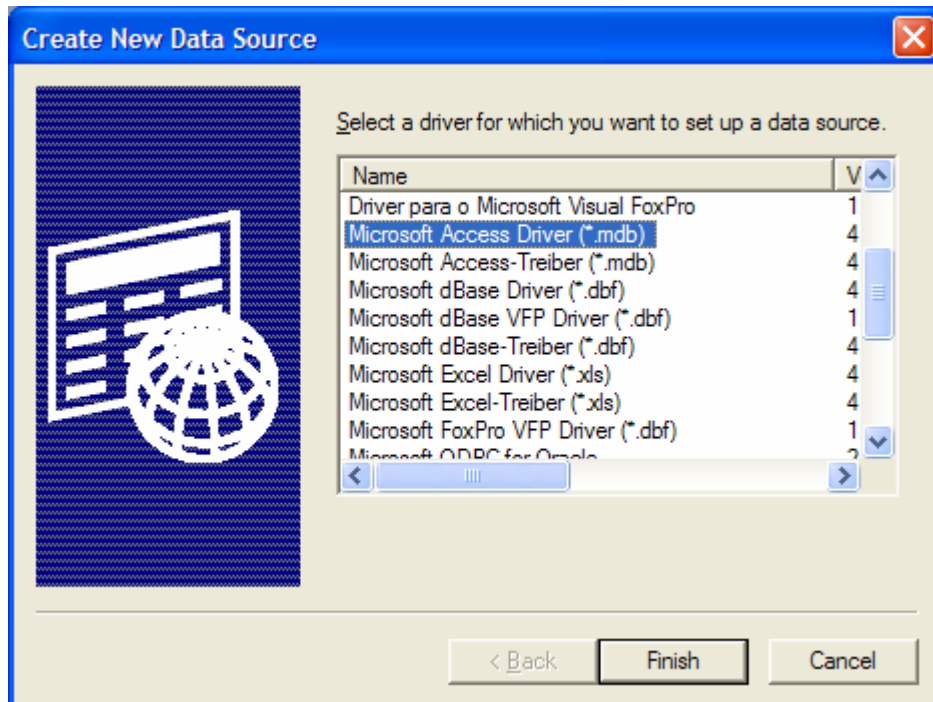
## II. Create a Database Connection

In order to add XY data from an MDB database, you must first create a database connection in the Windows Control Panel.

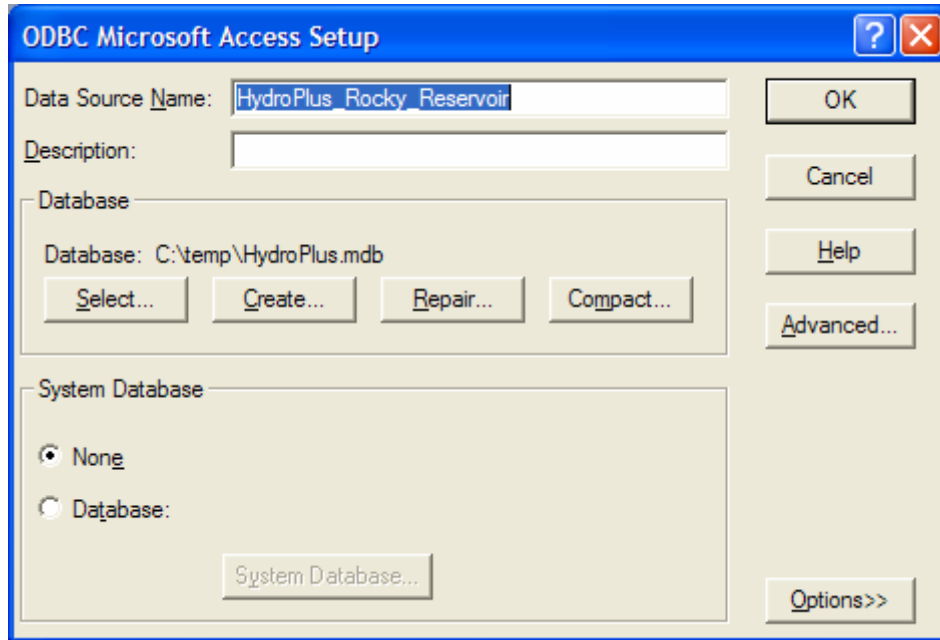
- 1.) Go to Start > Settings > Control Panel > Administrative Tools > Data Sources (ODBC).
- 2.) Click on the System DSN tab and press Add... to create a new connection.



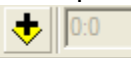
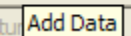
- 3.) Select the Microsoft Access (\*.mdb) Driver and click Finish.

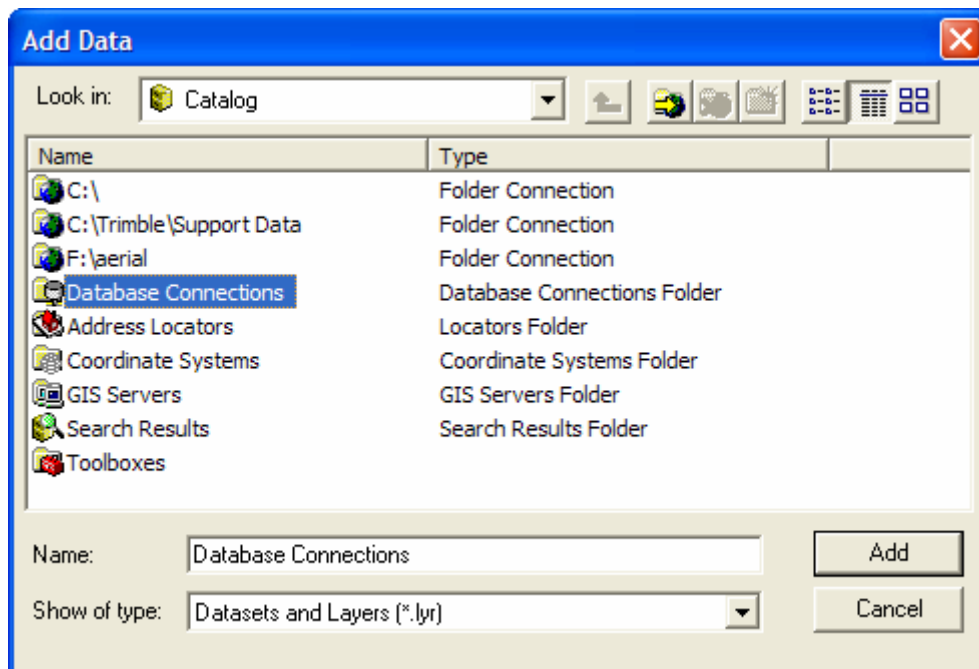


4.) Click the Select... button and browse to the .mdb file output earlier. Enter a name for this database connection. Click OK to save. Close the Control Panel.

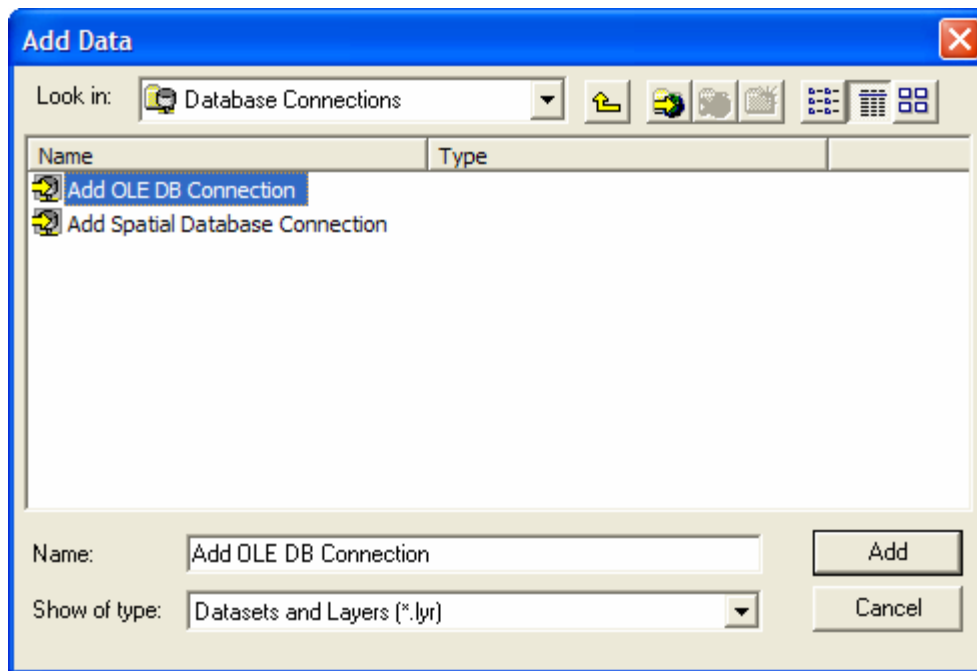


### III. Adding XY data to ArcMap

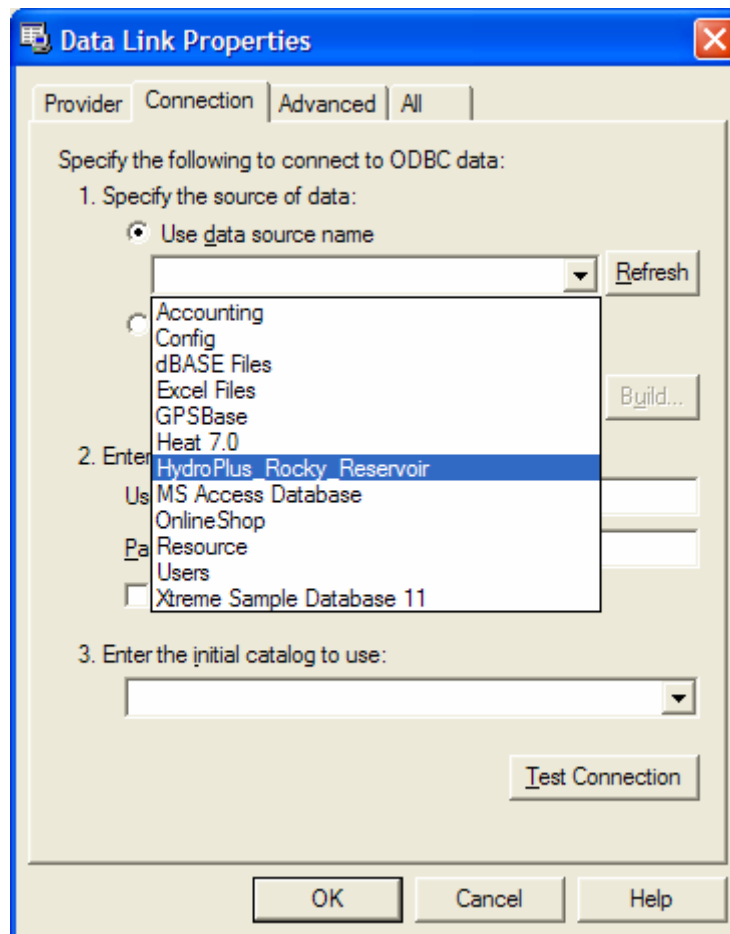
- 1.) Open a new empty map in ArcMap or open an existing map.
- 2.) Click the add data button  and add the dBase file created by HydroPlus Host to the data frame.
- 3.) If adding data from an  MDB database, double-click Database Connections.



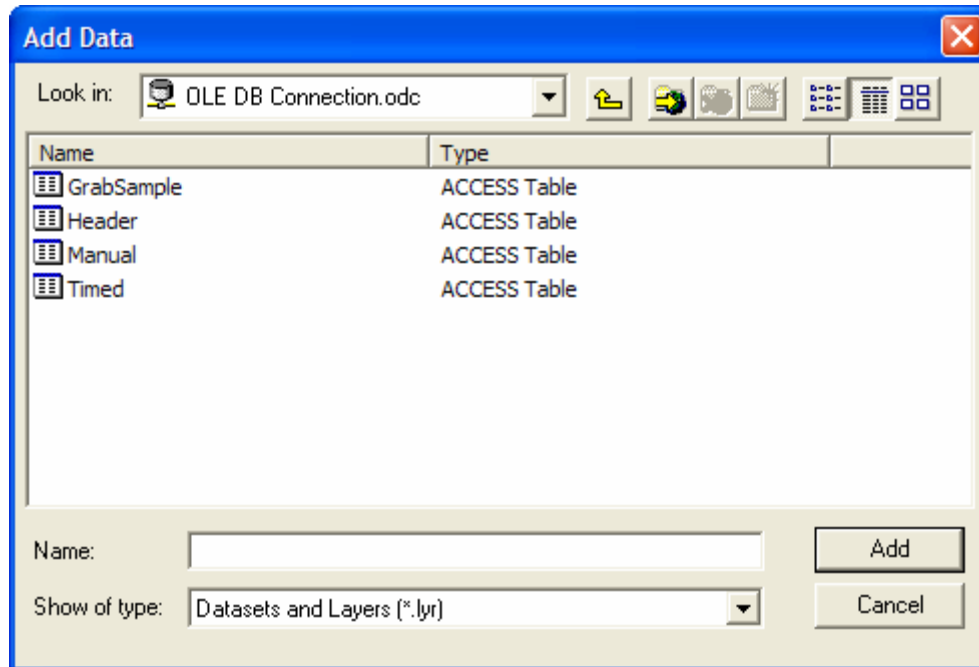
4.) Double-click Add OLE DB Connection.



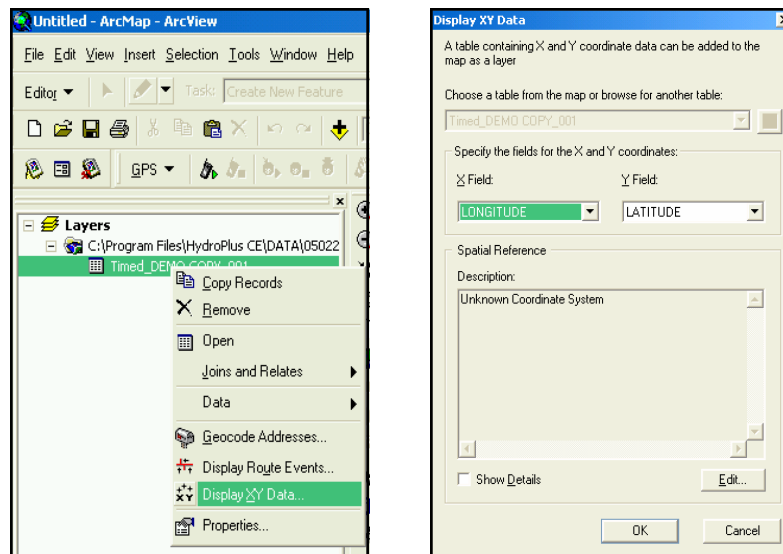
5.) Click on the Connection tab. Select the Connection from the 'Use data source name' drop-down. Click OK.



- 6.) Double-click the newly created connection, then add the tables you would like to view from the MDB file.



- 7.) Right click the newly added table and choose Display XY data from the pop up menu.

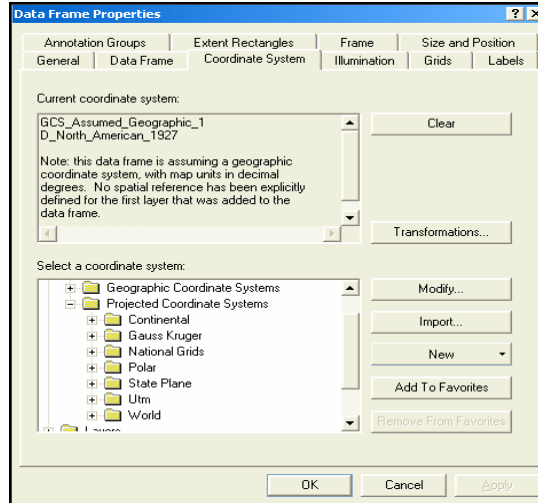


- 4.) In the Display XY Data window, verify that the X Field is LONGITUDE and the Y Field is LATITUDE and click OK to display the points.
- 5.) For Spatial Reference, press Edit..., then Select > Geographic Coordinate Systems > World > WGS 1984.prj. This tells ArcMap the coordinates in the table are in Lat/Long WGS84. Press OK until your XY data is displayed on the map.

### III. Projecting your tabular data

If the DBF table was added to a new empty map, the tabular data is now displayed in Lat/Long coordinates. In order to output the data to a shapefile or feature class in another coordinate system, the Coordinate System must first be changed in the ArcMap Data Frame. **NOTE:** If your Data Frame is already set to some other coordinate system, these steps would not be necessary.

- 1.) Click the View menu and choose Data Frame Properties.
- 2.) In the Data Frame Properties window, click the Coordinate System tab.

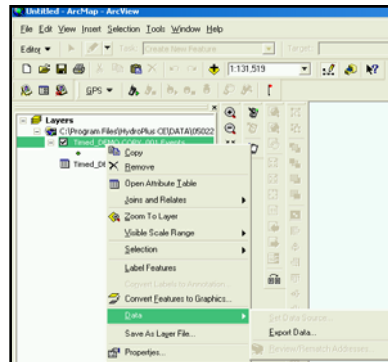


- 3.) In the Coordinate Systems tab there are three choices for defining a coordinate system: a) You can use one of ArcMap's predefined coordinate systems (choose from the list under 'Select a coordinate system:'). b) You can click the Import... button to import a coordinate system from another shapefile or feature class that has a projection file associated with it. c) You can create a new coordinate system by clicking the new button and filling out the coordinate system parameters.

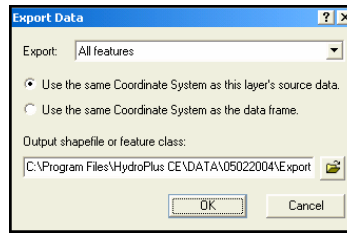
### IV. Exporting the XY data to a shapefile

Now that a coordinate system is defined, your tabular data can optionally be exported to a shapefile or feature class.

- 1.) Right click the newly created point layer and choose Data/Export Data from the pop up window.



- 2.) In the Export Data window make sure the “Use the same Coordinate System as the data frame” radio button is selected if you would like to output the shapefile or feature class in something other than Lat/Long.



- 3.) Assign a name and location to the output shapefile and click OK to finish.
- 4.) Your tabular data is now a projected shapefile.