

ILMS Workshop

Join us to learn about DASLER

DASLER *Version 7.0*

- ▶ Data Analysis Software for Lakes Estuarines and Rivers
- ▶ DASLER was developed for the U.S. Army Corps of Engineers to manage lake, stream, and river water quality data.
- ▶ DASLER capabilities include:
 - ▶ Managing physical, chemical and biological data with a single application.
 - ▶ Fast, easy analysis using a variety of pre-defined reports.
 - ▶ Integrated utility program that uploads data directly to WQX.

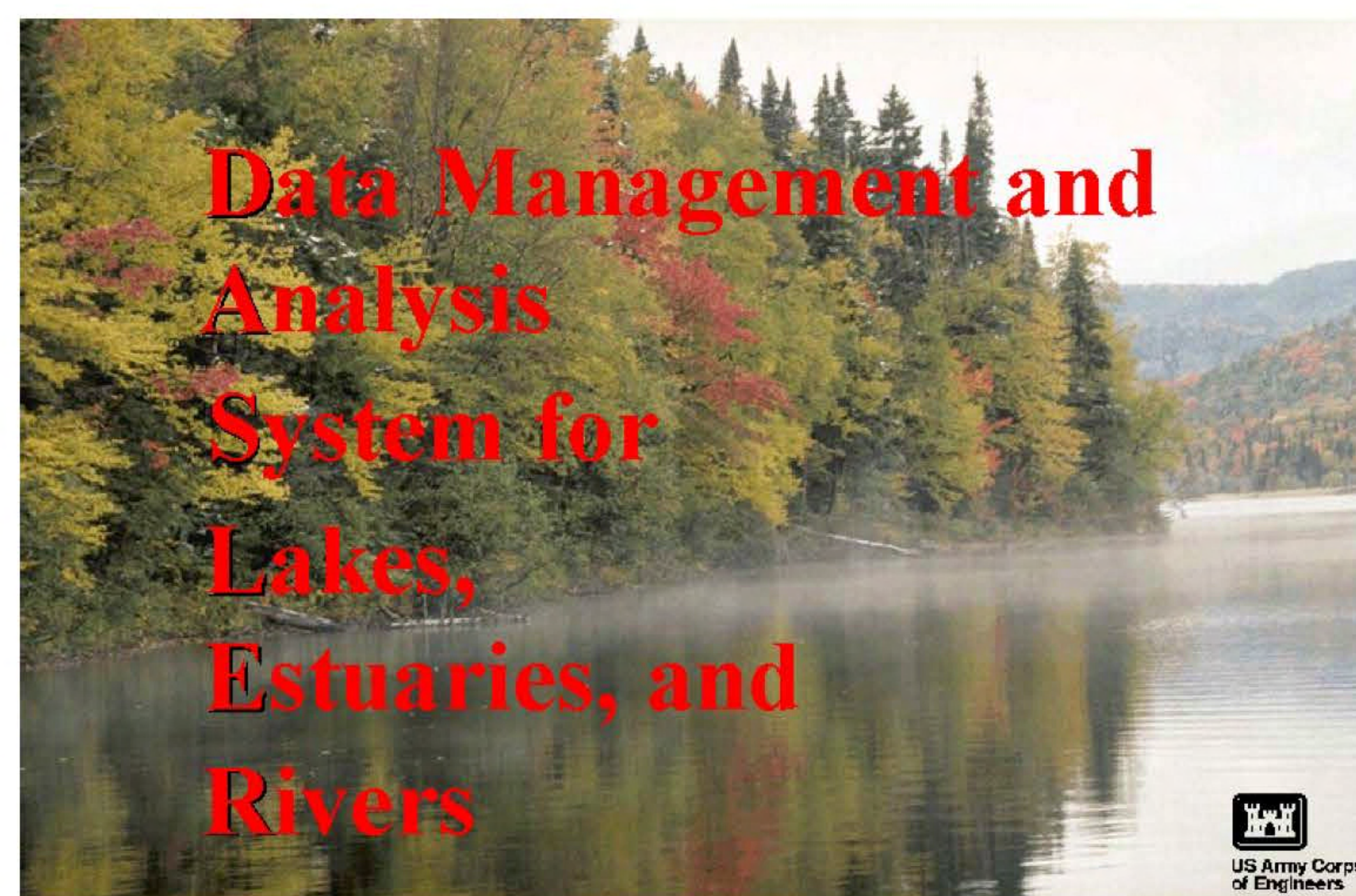
Workshop Details

- ▶ Wednesday, November 15th.
 - ▶ 6-8 pm
- ▶ Morgan County Public Library
 - ▶ 110 S. Jefferson Street;
Martinsville, IN 46151
- ▶ Please RSVP to Jade.L.Young@usace.army.mil



Civil & Environmental Consultants, Inc.

CEC, Inc. and the US Army Corps of Engineers are pleased to announce the availability of CE-DASLER Version 7.0.



DASLER and related programs were developed by Civil and Environmental Consultants, Inc. for the US Army Corps of Engineers.

CE-DASLER Version 7.0

Version 7.0 of the Data management and Analysis System for Lakes, Estuaries, and Rivers (DASLER) is now available for use by any organization that manages surface water quality data. This latest version of the software offers many new features which make the system even more user-friendly, versatile, and powerful. System abilities include:

Managing physical, chemical, bacteriological, and biological data with a single application.

Administering discrete sampling events as well as automated continuous monitoring activities.

Managing many varieties of biological surveys: benthic, phytoplankton, zooplankton, harmful algal blooms, etc.

Customizable field data forms.

Ability to record results using any units. Convert to any desired units for output.

Fast, easy analysis using a variety of pre-defined reports.

Customizable *ad hoc* report generation.

Integrated graphing utilities.

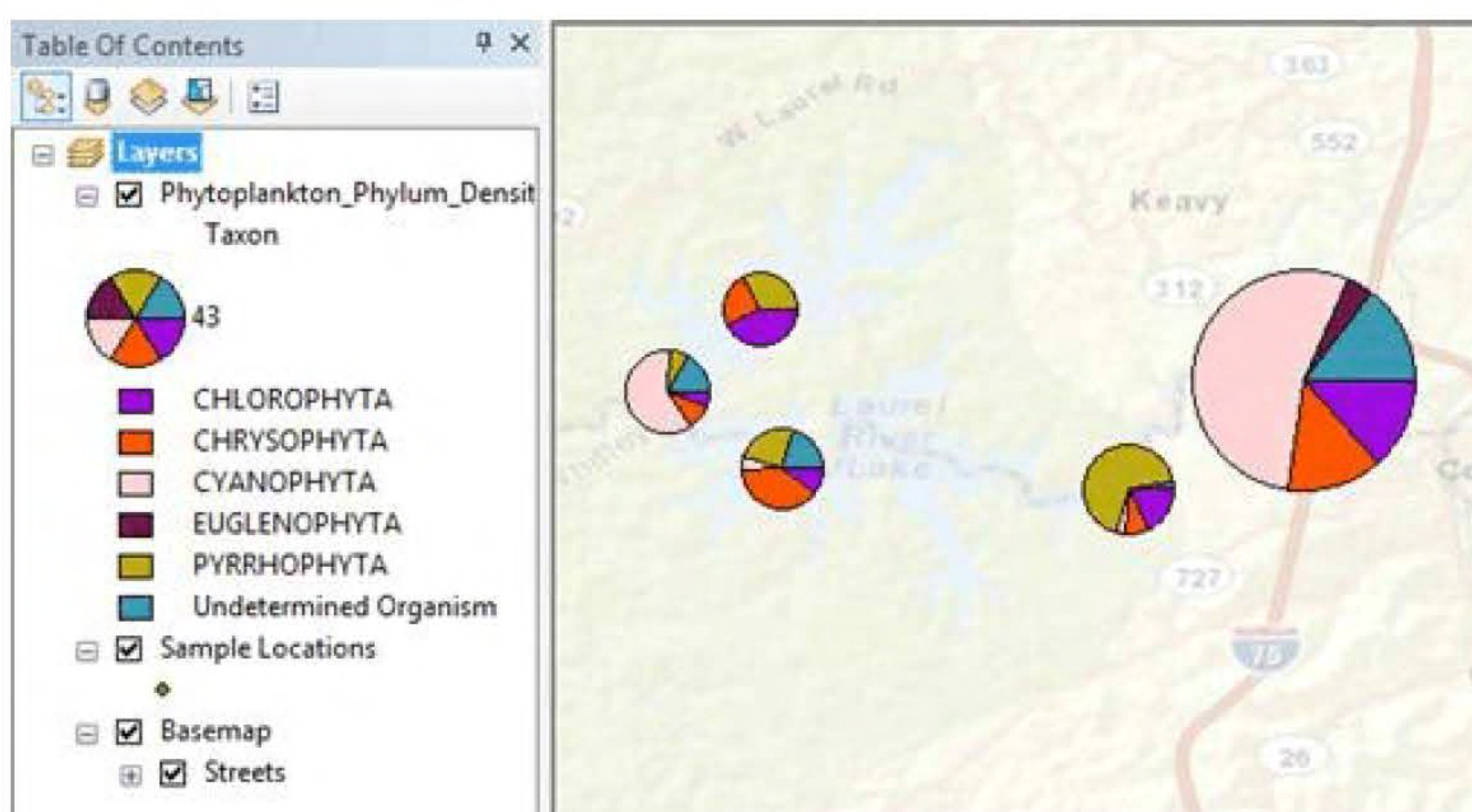
Calculation of a wide variety of water quality indices.

Ability to export data to or save reports as Excel spreadsheets.

Item	Units	Value
Stream Width	ft	
Sample Location	ft	
Stream Flow, Inst	cfs	
Secchi	in	
Surface Elevation	ft	

Depth ft	00010 Water Temp deg C	00094 Sp. Conductance umho/cm	00299 Oxygen, Diss mg/l	O2
0	11	42	6	
5	10	41	7	
10	10	33	5	

One of the most important features of DASLER is the ability to export data for sharing with others. DASLER includes a custom utility program that sends physical, chemical, and biological data directly to WQX. This eliminates the need for separate programs for managing data and meeting your data sharing objectives and obligations. Additionally, DASLER 7.0 now includes tighter integration with the Integrated Taxonomic Information System taxa table, the EPA standard for taxon identification.

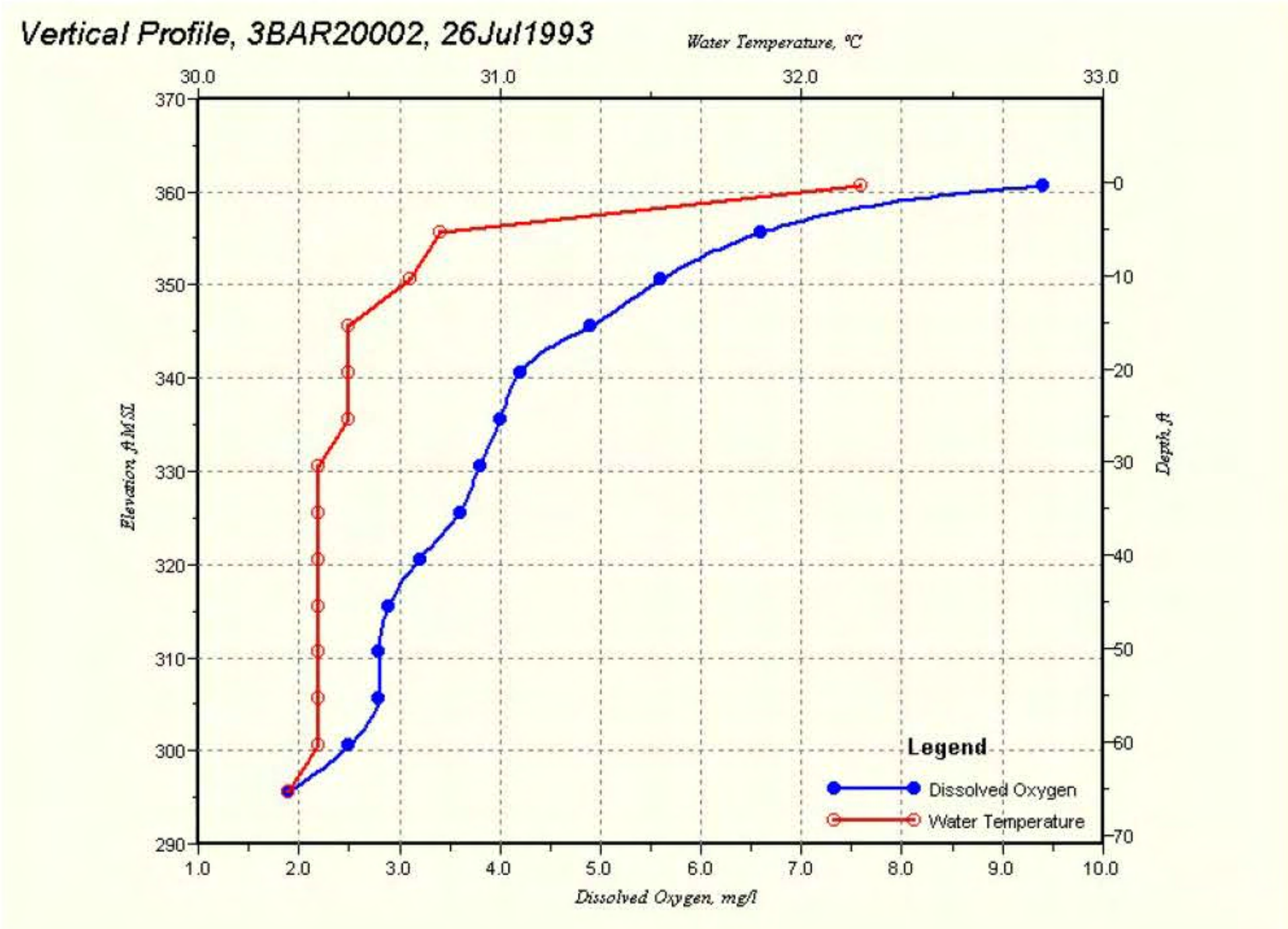


The suite includes ArcDASLER, a plug-in interface for ESRI's ArcGIS that allows you to connect your DASLER data directly to any ArcMap project. The GIS interface includes functions for querying the results of sampling events directly from the map. It also allows you to generate thematic map layers such as graduated symbol themes and taxa distribution themes.

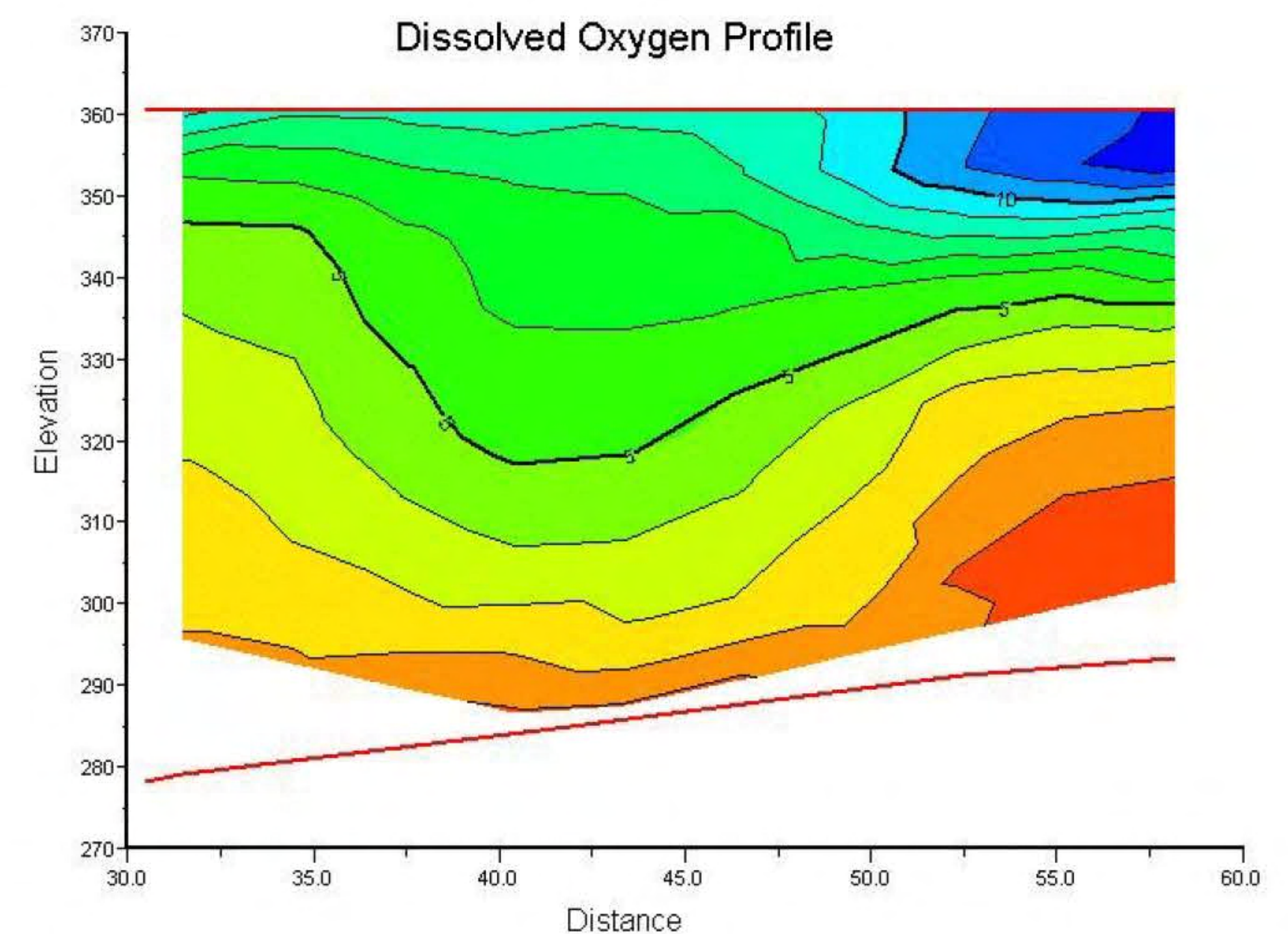
Analyte	Units	Value	Laboratory	Prep Method	Test Method	Lab SNum
Water Temp	deg	32.2	Field Data	*	*	199307261800000
Secchi	m	0.8	Field Data	*	*	199307261800000
Sp. Conductance	umhc	211	Field Data	*	*	199307261800000
Oxygen, Diss	mg/l	9.4	Field Data	*	*	199307261800000
O2 Sat, Diss	%	128	Field Data	*	*	199307261800000
pH	units	8.7	Field Data	*	*	199307261800000
Alkalinity, Tot	mg/l	80	Historical Data	*	*	30185
Solids, Tot	mg/l	122	Historical Data	*	*	30185
Solids, Vol.	mg/l	14	Historical Data	*	*	30185
Solids, Dissolved	mg/l	118	Historical Data	*	*	30185
Solids, Diss. Vol.	mg/l	2	Historical Data	*	*	30185
Solids, Susp.	mg/l	4	Historical Data	*	*	30185

DASLER produces a wide variety of reports and analyses. Some examples include:

- calculation and reporting of Carlson's Trophic State Index.
- identification and reporting of values that exceed regulatory specifications.
- a standard water quality summary of field observations and lab results for a single sampling event in a concise, easy to read table.
- a statistical water quality summary for sampling events at one station over a user-defined period.
- an ion balance report that can help you gauge the performance of your laboratory.



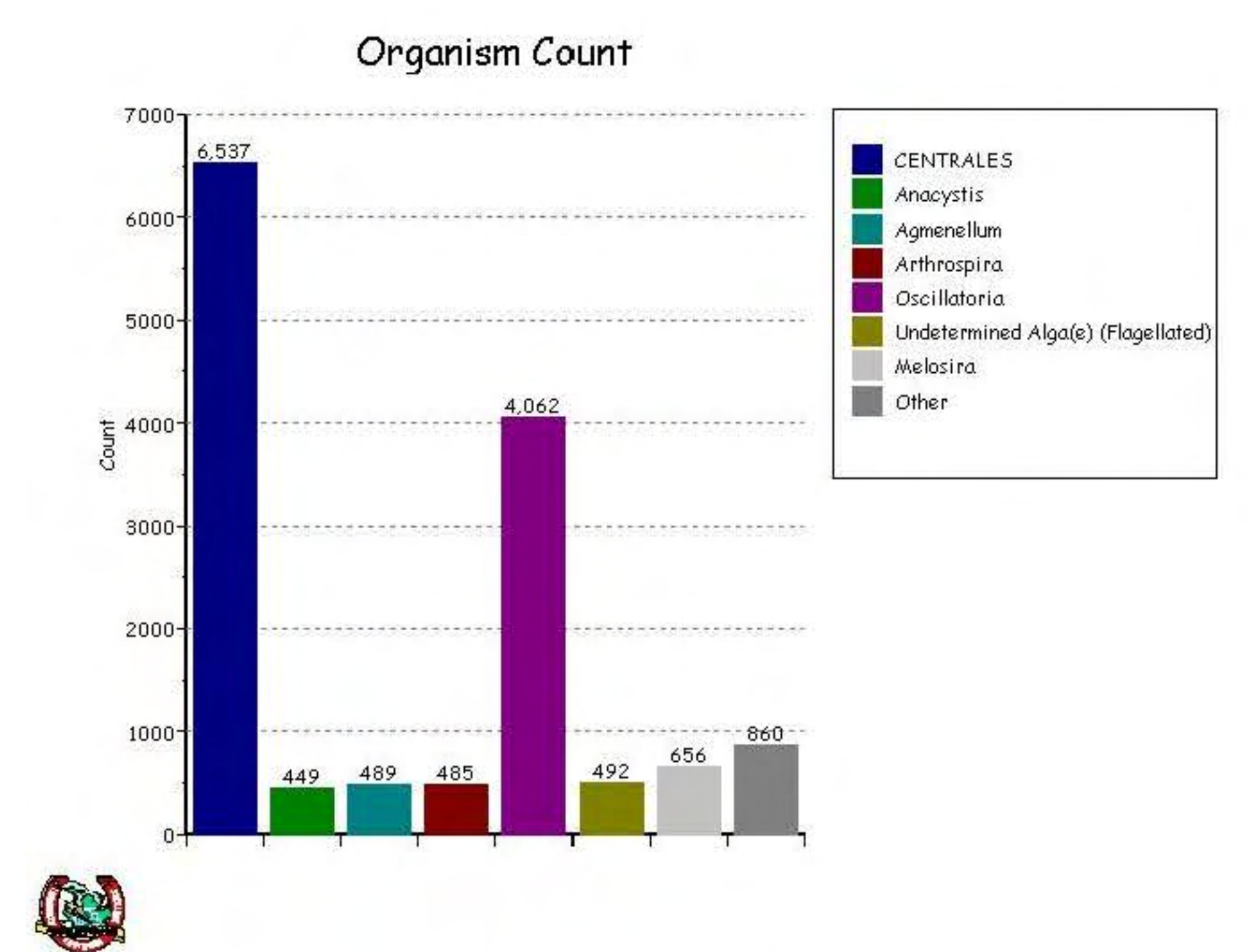
- benthic checklist, ecological profile summary, and biometrics reports based on biological data.
- user-defined *ad hoc* reports for both physical/chemical and biological data, for those occasions when none of the pre-defined reports suits your needs.



With DASLER's graphing functions you can generate, export, and print a variety of plots either individually or by combining multiple graphs simultaneously.

Available plots of physical/chemical data include:

- vertical profiles
- time series profiles
- continuous monitoring values
- longitudinal contours
- time series contours
- longitudinal value distribution
- grain size distribution



Available plots of biological data include:

- taxa distribution bar charts
- taxa distribution pie charts
- taxon observation history

Segment Sampling Locations

Use this dialog to define relationships between model segments and DASLER sampling locations.

Model: D:\DASLER\W2 Calibration Tool\Sample Data\March 20\

CENTER HILL LAKE BATHYMETRY WITH 9 BRANCHES

Branch	Stream	Seg	US RM	DS RM	DASLER Location ID	RM
37		31.58	30.62			
38		30.62	29.72			
39		29.72	28.78			
40		28.78	27.84			
41		27.84	26.6		3CEN20002	26.8
2	Pine Creek	44	2.25	82	3CEN20011	1.1
45		.82	0			
3	Fall Creek	48	2.36	.76	3CEN20010	1.4
49		.76	0			
4		52	1.87	.93		
53		.93	0			
5	Falling Water River	56	12.59	9.46	3CEN20039	10
57		9.46	8.22			
58		8.22	6.97		3CEN20008	5.1

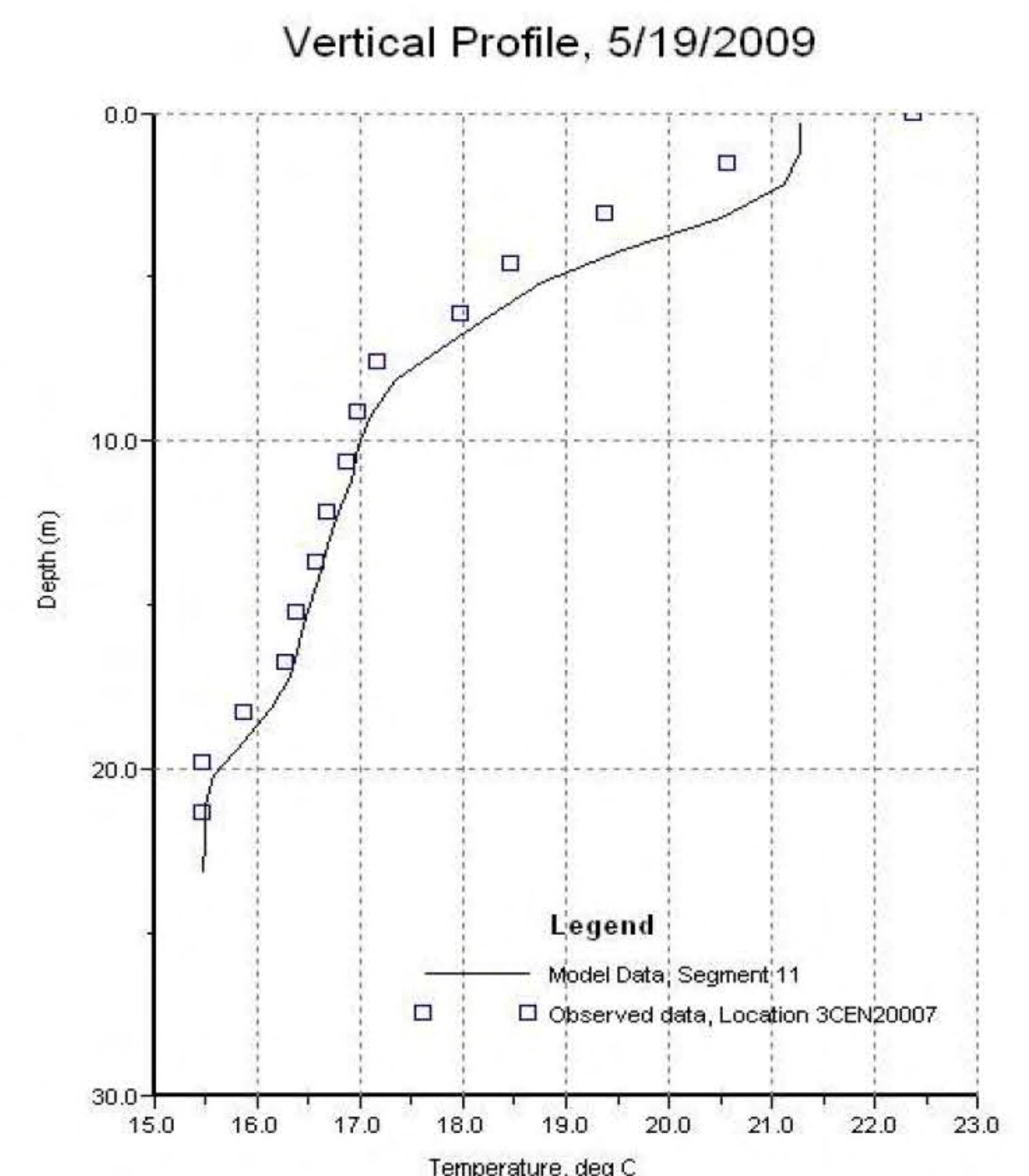
DASLER Location Manipulations

Select an Operation: Select Location for Current Segment

Execute the Selected Operation

Apply OK Cancel

All plots still include a wide variety of formatting and customization options. You can change just about every part of the plot: lines, symbols, and text. Plot options can be saved as templates for a consistent look. Plots can be printed directly from DASLER with stunning results. They can also be exported as Windows metafiles, JPEGs, or bitmaps for easy insertion into other applications.



For more intense analysis, DASLER includes a utility that links the DASLER database directly to output of the CE-QUAL-W2 model. This feature facilitates calibration and operation of your W2 model by providing seamless graphical and statistical comparisons of predicted data (model) and observed data

(actual). The utility reads standard W2 output files, eliminating the need to recompile or relink the model with additional libraries. The utility works with both current and previous versions of CE-QUAL-W2.

For more information about DASLER, please contact Gerald Burnette at (865) 995-9953 or gburnette@cecinc.com.