

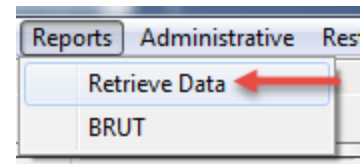
User Guide for SBIO2: Retrieve Data Module

Introduction

The Retrieve Data module of the SBIO2 interface will incrementally replace the reporting function in the legacy 4th Dimension program. Its initial release will not include the ability to extract data for all biological communities, but will offer those that are not available in the 4D interface. As the functionality is expanded and more data types are available for retrieval, objects on the form will be enabled for selection.

Getting Started

Once the SBIO Administrator has assigned the Retrieve Data module, select it from the *Reports* menu. An empty form with a variety of search criteria will be displayed, along with options for manipulating rows in the grid and configuring a retrieval.



Search for Data to Retrieve

There are several search criteria that can be used to identify data for retrieval. Those based on some of the visit

A screenshot of the 'SBIO Reports - Retrieve Data' form. It contains several input fields for search criteria: STORET Station, Station Nickname, County, IWR WBID, Sample Date Begin (5/20/2015), Sample Date End (5/19/2016), Survey, Planning Unit, Waterbody Type, GIS WBID, and a 'Use Date Range' checkbox. On the right, there is a 'Choose Data Type' section with radio buttons for Benthos, Phytoplankton, Periphyton, Macrophytes, RPS, Habitat Assessment, and Phys-Chem. A 'View User Guide' button is at the bottom left, and a 'Clear Selection Above' button is at the bottom right.

attributes are displayed to the left. The STORET Station ID and Station Nickname are wildcard queries so only a part of the search string may be entered. They are designed to work together to filter the samples to retrieve.

If a new criterion is added to an existing set, the *Find* button must be pressed to re-execute the query. Note that the *Use Date Range* box must be checked to add that filter to the retrieval. Also, a data/community type must be selected before the *Find* button is enabled. Currently, the program will only allow retrievals for Macrophytes, RPS, Habitat Assessment, and Phys-Chem data.

Retrieve Macrophyte Data

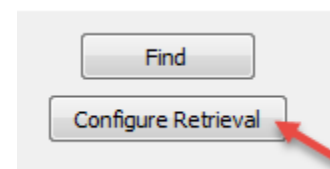
Once the search criteria and the *Macrophytes* button are selected, clicking on the *Find* button will bring up

A screenshot of the 'SBIO Reports - Retrieve Data' form with the 'Find' button clicked. The 'Use Date Range' checkbox is checked. Below the form, a table of results is displayed. The table has columns: Visit ID, MacrophyteID, LIMS SampleID, Status, Method, StaNickname, STORET Sta..., Sample Date, and County. The table contains 14 rows of data, all with a status of 'A' or 'V'.

Visit ID	MacrophyteID	LIMS SampleID	Status	Method	StaNickname	STORET Sta...	Sample Date	County
73087	8415		A	LVI_Method	WAUBERGREF	20020140	7/7/2014	ALACHUA
73113	8803		A	LVS	SFR050	3521	7/9/2014	ALACHUA
73126	8424		A	LVI_Method	Z3LL3004	36621	7/1/2014	ALACHUA
73301	8470		A	LVI_Method	LOCHLOOSLK	G1CE0001	9/8/2014	ALACHUA
73303	8711		A	LVI_Method	NEWNANSLK	G1CE0002	8/27/2014	ALACHUA
74373	8979		A	LVI_Method	ALTHSEREF	21030006	6/1/2015	ALACHUA
74399	8983		A	LVI_Method	ALTHSEREF	21030006	6/1/2015	ALACHUA
74546	9021		A	LVI_Method	ALTHSEREF	21030006	6/29/2015	ALACHUA
74576	9037		A	LVI_Method	ALTHSEREF	21030006	6/25/2015	ALACHUA
74866	9231		V	LVS	SFR050	3521	9/8/2015	ALACHUA

candidate samples for data retrieval. Although you can see samples with different status, only those that have been authorized (status A) can be retrieved. This grid may be sorted by any of the attributes by clicking on its column header.

Next, selecting one or more samples in the grid will enable the *Configure Retrieval* button.



User Guide for SBIO2: Retrieve Data Module

The program is designed to retrieve data for only one gear/method at a time. If more than one exists in the selection, a form will display to prompt the user to choose one or cancel.

Options for Macrophyte data retrieval are listed below. Select the item of interest and click the *Retrieve Data* button to display the results.

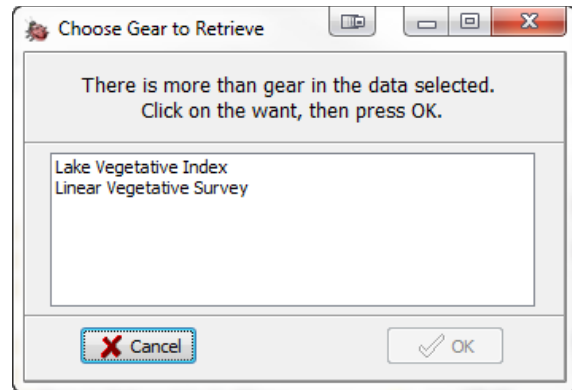
MacPhyte Data Options

☒ Final Scores

☐ All Variables by Rep

☐ Taxa Lists

The *Final Scores* and *All Variables by Rep* options also allow the user to add Station Metadata to the grid. Clicking on *Retrieve Data* will refresh the display as the different options are selected.



☐ Include Station Metadata

Retrieve Rapid Periphyton Survey (RPS) Data

Retrieval of RPS data works just as described for the Macrophytes. Data options for RPS are the *Calculated Results* and *Raw Data*. Station Metadata can also be added to this retrieval.

RPS Data Options

☒ Calculated Results

☐ Raw Data

Retrieve Rapid Habitat Assessment Data

Habitat Assessment Data Options

☒ Final Scores

☐ All Components

Retrieval of Habitat Assessment data also works just as described for the Macrophyte. Data options for Habitat Assessment are the *Final Scores* and *All Components*. Station Metadata can also be added to this retrieval.

Retrieve Phys-Chem Data

Phys-Chem data must be retrieved independently of the other data types. Station Metadata may be added to this retrieval.

☒ Phys-Chem Data Only

Retrieve LIMS Data

For the taxonomic data types (Benthos, Phytoplankton, Periphyton and Macrophytes), users have had the ability to add Sample IDs from the Central Laboratory's Laboratory Information Management System (LIMS) to link the SBIO Station with the Field ID submitted with the analytical work. Where users have done this, the program will search the LIMS for the appropriate event and retrieve all of the data for that site. After 'finding' a group of station visits, select rows with the *LIMS SampleID* column populated and click on the *Retrieve LIMS Data* button.

Retrieve LIMS Data

Since this query is searching both the LIMS and SBIO databases it takes a little while to complete, the more visits selected the longer it takes to display the data. Be patient when it appears that the program is not responding; it is still putting the dataset together.

User Guide for SBIO2: Retrieve Data Module

Once the query has completed the data will be displayed in a grid that can be manipulated as described below.

Manipulation of Records in the Grid

The series of buttons displayed here is used to customize the list of records for ease of viewing or export. The *Save Grid to File* button prompts for a save location and creates a tab-delimited text file.

