Supplementing data with the World Ocean Database

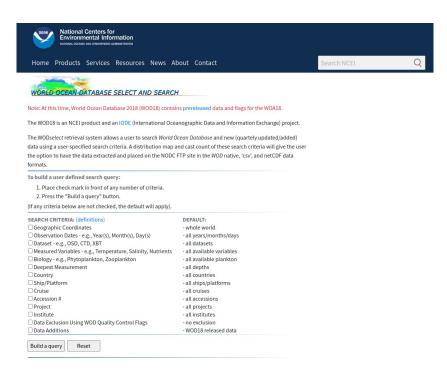
Seascape Genomics of North Pacific Forage Fishes RCN Group

Timm LE, Tucker N, Rix A, LaBua S

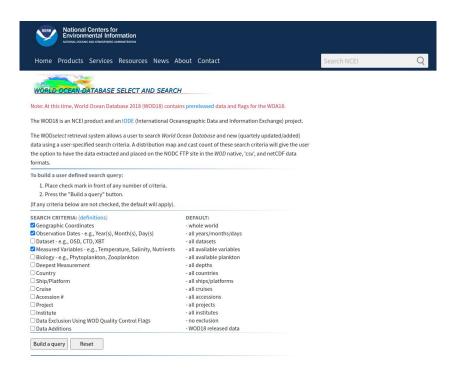
Data you have in hand

- Collection site coordinates are preferred, general localities are usable
- Collection dates are preferred, seasons are usable
- Depth is optional

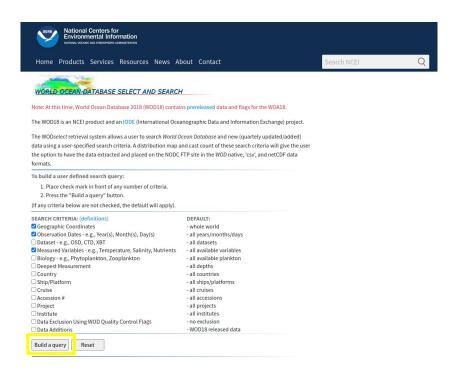
Navigate to the World Ocean Database (https://www.ncei.noaa.gov/access/world-ocean-database-select/dbsearch.html)



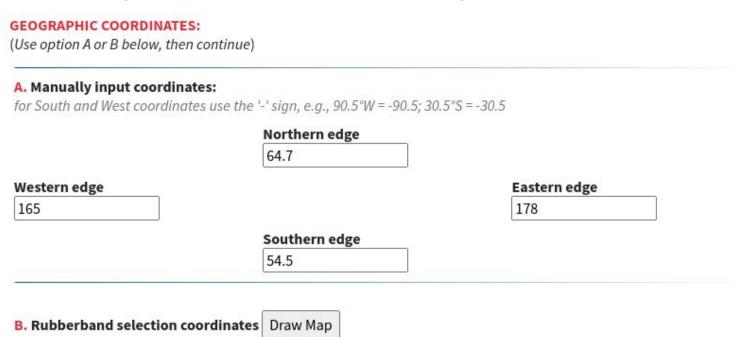
Select "Geographic Coordinates", "Observation Dates", and "Measured Variables" as the search criteria



Click "Build a query"



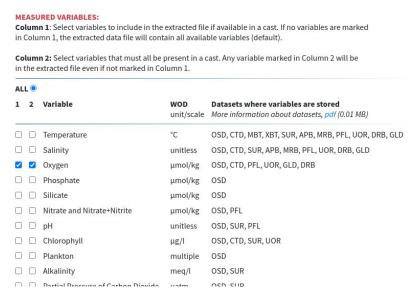
Enter the bounding coordinates of the sample range



Enter the bounding dates of the sampling events (if dates occur in batches, such as annual cruises, consider running a query for each cruise).

OBSERVATION DATES: (data gathered between Jan. 1773 - present) Check if profiles taken in Months/Days for each years desired. (If unchecked, all profiles taken between (From) Year/Month/Day and (To) Year/Month/Day (inclusive) are desired). See example			
From:	2016	3	28
To:	2018	2	7

Select the variables you are interested in. If you are interested in more than one data type (eg, oxygen and/or pH), only check the boxes associated with those measurements in column 1 (not column 2). Selection column 2 will only report data if BOTH measures are available in a given cast.



Click "Get an inventory" at the bottom of the screen.

It is possible no data will exist for your query. The following page will be returned.

QUERY RESULTS:

There were no data found for your request.

Please return to WODselect query builder page if you would like to make another selection.

If data exists, however, you will be able to download it. Click "DOWNLOAD DATA".

Full (expanded) file size estimate (0.4 MB)

Gzipped file size estimate (95.5 KB)

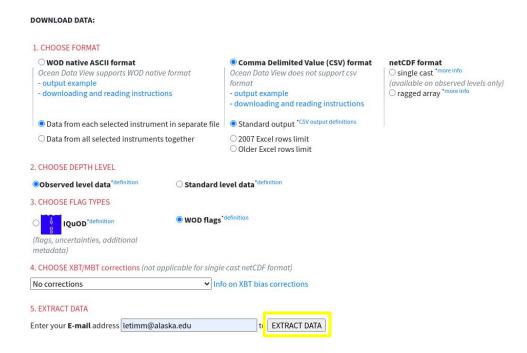
NOTE: the file size estimates are for the WOD native format

Data extractions will take approximately 1 min.

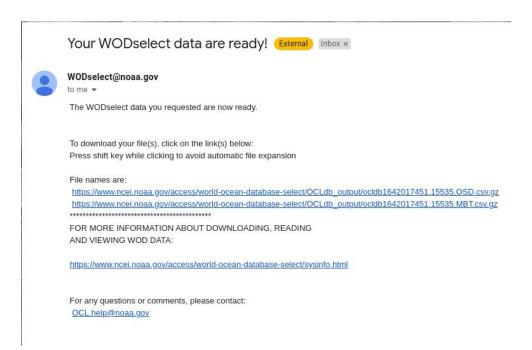
DOWNLOAD DATA

If you encounter any problems, please contact: OCL.help@noaa.gov

World Ocean Database will want some specifics about the form you would like the data in. Make your selections, enter your email, and click "EXTRACT DATA".



You will receive as email from "WODselect" containing link(s) to the requested files. It may take a few moments for the email to be delivered.



The downloaded and extracted file(s) contain all instrument casts that returned the variable of interest (such as CTD for temperature). Now you can identify measurements taken nearest to your coordinates and selected date. This is why, in some instances, more targeted queries may be more efficient.

Caveats

Just because you cannot find data for a set of coordinates within some date range does not mean similar data does not exist. Consider running queries for a broader geographic range and/or for previous years (or remove the dates entirely).

"Filling in" data in this way can be useful and informative, but always remember this process inherently introduces error. Keep this in mind when interpreting results.

If you try this guide, let us know!