



**REACCH**  
Regional Approaches  
to Climate Change –  
PACIFIC NORTHWEST AGRICULTURE

# REACCH Data Management Web Module 2: Accessing the REACCH Data Library

Searching for, uploading, and meta-tagging  
REACCH data

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## More about REACCHPNA



The **Regional Approaches to Climate Change** project is a coordinated regional agricultural project, funded by the [National Institute for Food and Agriculture](#) to improve the long-term profitability of the cereal production systems in the Pacific Northwest under ongoing and projected climate change, while contributing to climate change mitigation by reducing emissions of greenhouse gases.

REACCH includes efforts in [research](#), [extension](#), and [education](#) that integrates diverse elements including [climate modeling](#), [cropping systems modeling](#), [economics](#), agronomy, crop protection, and others in a trans disciplinary manner.

[www.reacchpna.org](http://www.reacchpna.org)



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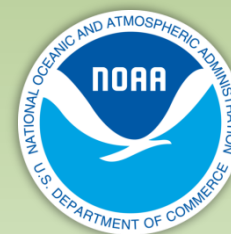
# REACCH Data Management Team



From left: Ed Flathers (REACCH), Erich Seamon (REACCH), Luke Sheneman (NKN)

- Sanford Eigenbrode, Project Director
- Paul Gessler, PI and Objective 8 lead
- Von Walden, PI
- Rick Rupp, PI
- Erich Seamon, Data Manager
- Stephen Fricke, Programmer
- Edward Flathers, Ph.D. student
- Linda Tedrow, GIS Specialist  
Summer 2013

- Steve Daley-Laursen, NKN
- Greg Gollberg, NKN
- Luke Sheneman, NKN
- David Vollmer, NKN
- Jen Hinds, NKN
- Bruce Godfrey – UI Library
- Jeremy Kenyon – UI Library
- Alex Kyrios – UI Library



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# Access and Important Information Regarding REACCH DM Web Module 2

REACCH Web Modules that are associates with the GIS and Agriculture Short Course (Summer 2013) can be found at the following url:

<https://www.reacchpna.org/mission/education/graduate/courses/gis-aez/>

All REACCH Data Management Web Modules can also be found at the REACCH Media Library. These videos are currently only viewable to logged in REACCH members.

<https://www.reacchpna.org/resources/reacch-media-library/>



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# Access and Important Information Regarding REACCH DM Web Module 2

- The REACCH DM Web Modules are meant to assist REACCH members and student to access and use the REACCH Data Library
- Alterations and updates may be made to tools as time progresses

The screenshot displays the REACCH Data Library search page. At the top, there are navigation links for 'How do it?', 'Video Instruction', and 'Concept'. Below this, the 'REACCH Data Library' header includes 'Data Search', 'Browse', and 'Login' buttons. The main section is titled 'REACCH Data Search' and contains a search bar with the text 'biotics' and a 'Search' button. Below the search bar, there are options to 'Records shown from: REACCHPNA Data Repository' and 'Additional Options' with a 'Clear' button. A 'WHERE' section offers radio button options for 'Anywhere', 'Intersecting', and 'Fully within'. A map of the Pacific Northwest is visible below these options. On the right side, search results are displayed, showing 'Results 1-10 of 10 record(s)'. The first result is 'REACCHPNA Biotics - Pantrap', followed by 'REACCHPNA Biotics - Seed', 'REACCHPNA Biotics - Sweepnet', and 'REACCHPNA Biotics - Wireworm'. Each result includes links for 'Download', 'Preview', 'Globe (.kml)', 'ArcGIS (.nmf)', 'ArcGIS (.lyr)', and 'Add To Map'.



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# Summary and Overview of REACCH DM Web Module 2

- This module (web module 2) is meant to provide
  - An overview of the REACCH Data Library
  - How REACCH members can search the REACCH Data Library
  - How REACCH members can upload and meta-tag datasets for inclusion in the REACCH Data Library

***RDM Web Module 2 lays the foundation for RDM Module 3  
(REACCH Analysis Library)***



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# REACCH Data Library

The screenshot shows the REACCH Data Library website. At the top, there is a navigation menu with links for Home, What's New, About Us, Mission, Resources, and Login. Below the menu is a banner image of a tractor in a field. The main content area is titled "REACCH Data Library" and includes a search bar, a "Data Search" button, and a "Browse" button. A "Welcome!" message is followed by a paragraph explaining the library's purpose. Below this, there are two main sections: "You can simply..." and "You can do more...". The "You can simply..." section includes a search box with a "Search" button and links for "Search REACCH Data" and "Download REACCH Data". The "You can do more..." section is divided into two columns: "Be a User" (with links for "Create an Account" and "Save your REACCH Searches") and "Share REACCH Data" (with links for "Create REACCH Metadata", "Upload your REACCH Data", and "Publish REACCH Data"). At the bottom, a footer note states: "This REACCH Data Library was built using the Geoportal Server. Please read the [Disclaimer](#) and [Privacy](#) or [Contact Us](#)."

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# REACCH Data Library

- REACCH Data Library leverages ESRI's Geoportal Server 1.2.2
- Same software used by NOAA, NASA, DOI, etc.





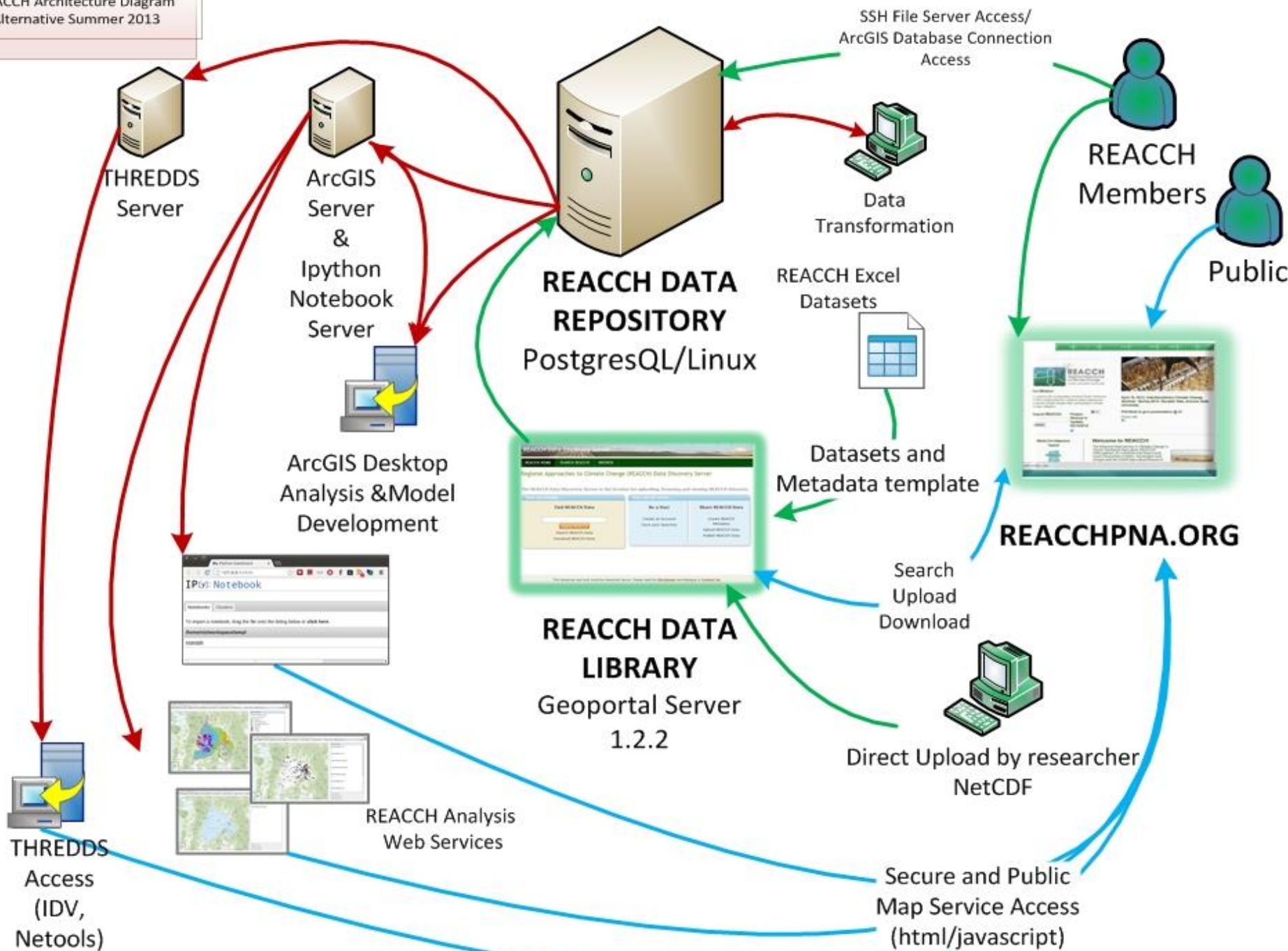
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# REACCH Data Library and REST

- REST API – Representational State Transfer Application Programming Interface
- ESRI has a REST API for access and querying data in ArcGIS Server
- REACCH map services are queryable using REST

## REST API review

- <http://help.arcgis.com/en/arcgisserver/10.0/apis/rest/>





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# Using the REACCH Data Library

The screenshot displays the REACCH Data Library search interface. At the top, there are navigation links for 'How do I?', 'Video Instruction', and 'Concept'. The main header includes 'REACCH Data Library' and buttons for 'Data Search', 'Browse', and 'Login'. The search results page shows a search for 'biotics' with 10 records found. The results are listed in a table with columns for 'Expand results', 'Zoom To Results', and 'Zoom To Searched Area'. The first three results are: 'REACCHPNA Biotics - Pantrap', 'REACCHPNA Biotics - Seed', and 'REACCHPNA Biotics - Sweepnet'. Each result includes links for 'Download', 'Preview', 'Globe (.kml)', 'ArcGIS (.nmf)', 'ArcGIS (.lyr)', and 'Add To Map'. A map of the Pacific Northwest is visible at the bottom left of the results area.

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# REACCH GIS/AEZ Web Module 2 Assignment

- Login to the [reacchpna.org](http://reacchpna.org) site using your assigned login.
- Login to the REACCH Data Library using the same login and password.
- Search for some data and review it.
- Upload one of your datasets using the upload tool.
- Review the dataset and confirm its upload.
- Add you name and contact information to the metadata for this dataset.

