

INTRODUCING THE SMU NODE OF THE NATIONAL GEOTHERMAL DATA SYSTEM (NGDS)

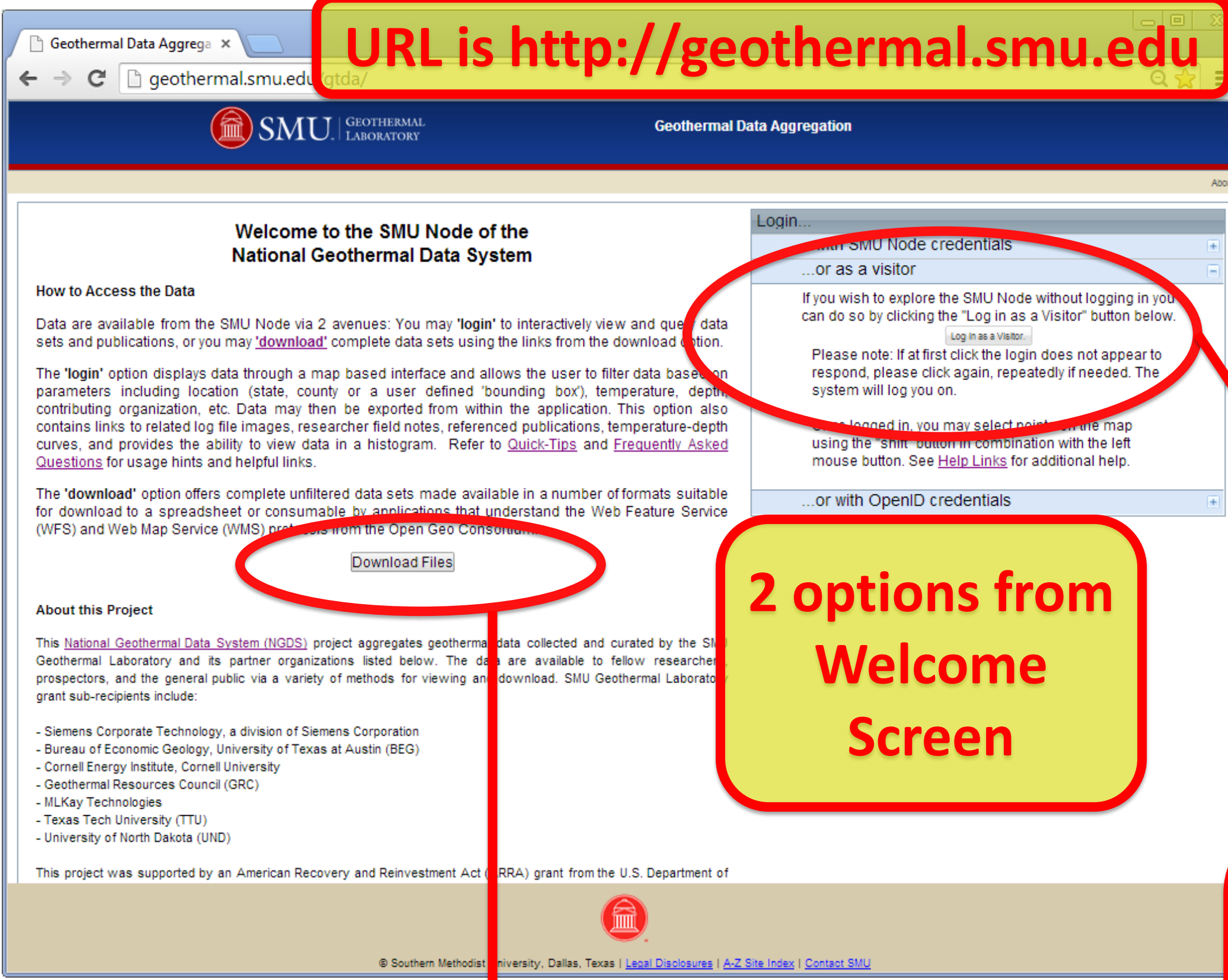
[HTTP://GEOTHERMAL.SMU.EDU](http://geothermal.smu.edu)



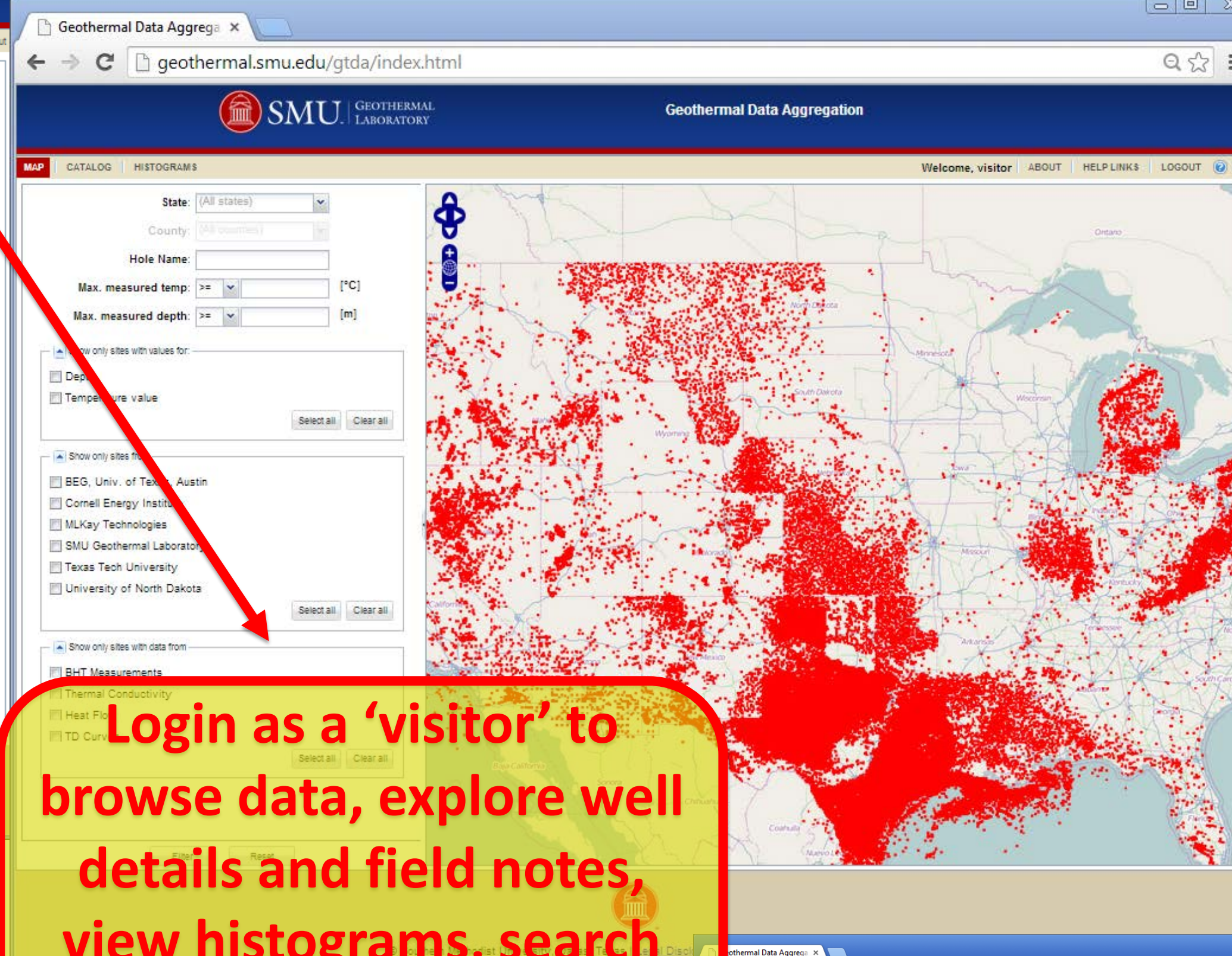
The SMU Geothermal Laboratory is pleased to announce the immediate availability of decades' worth of research through <http://geothermal.smu.edu>. The Department of Energy funded the effort to create a repository of information relevant to energy industry stakeholders, called the National Geothermal Data System (NGDS), of which the SMU Geothermal Lab project is one portion. The SMU Node of the NGDS contains information contributed by the SMU Geothermal Lab researchers as well as the Bureau of Economic Geology at the University of Texas, Cornell University, the Geothermal Resources Council, MLKay Technologies, Texas Tech University, and the University of North Dakota. Siemens provided systems integration services for the project.

The collection of U.S. data includes tens of thousands of temperature data points from multiple sources: oil and gas industry bottom hole temperature (BHT) values, as well as equilibrium temperature-depth logs of water, geothermal, and exploratory wells. In addition, the collection includes scanned images of well logs (on and off shore), analyses of Texas Gulf Coast reservoirs, Texas oil and gas well details including production data, nationwide datasets of heat flow, thermal conductivity and radiogenic heat production information, and scans of related researcher field notes dating back to the 1960's. The system also provides an option to perform full-text searches of the Geothermal Resource Council's extensive online library, in addition to scientific reports and publications provided by the other project participants.

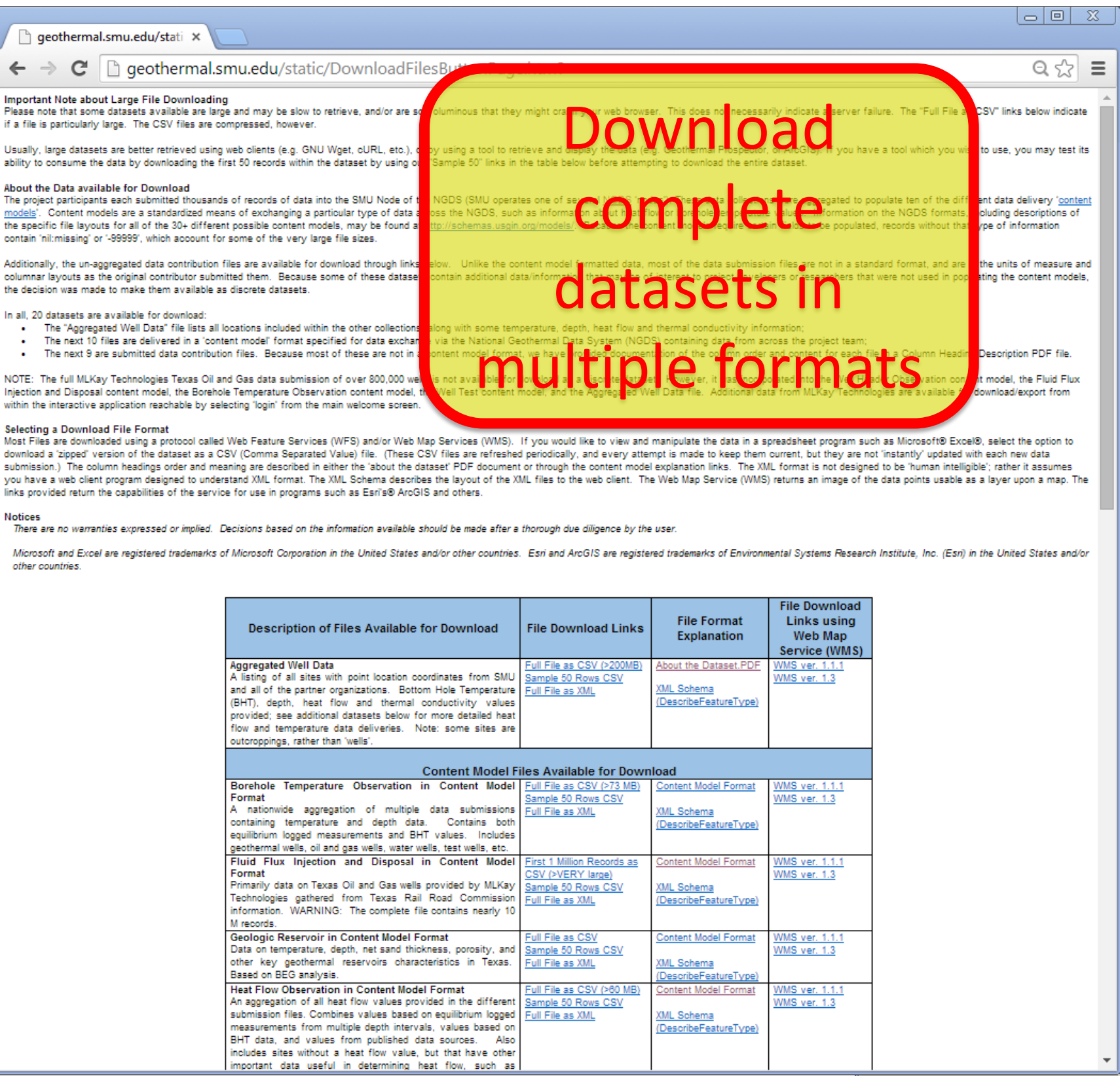
URL is <http://geothermal.smu.edu>



2 options from Welcome Screen

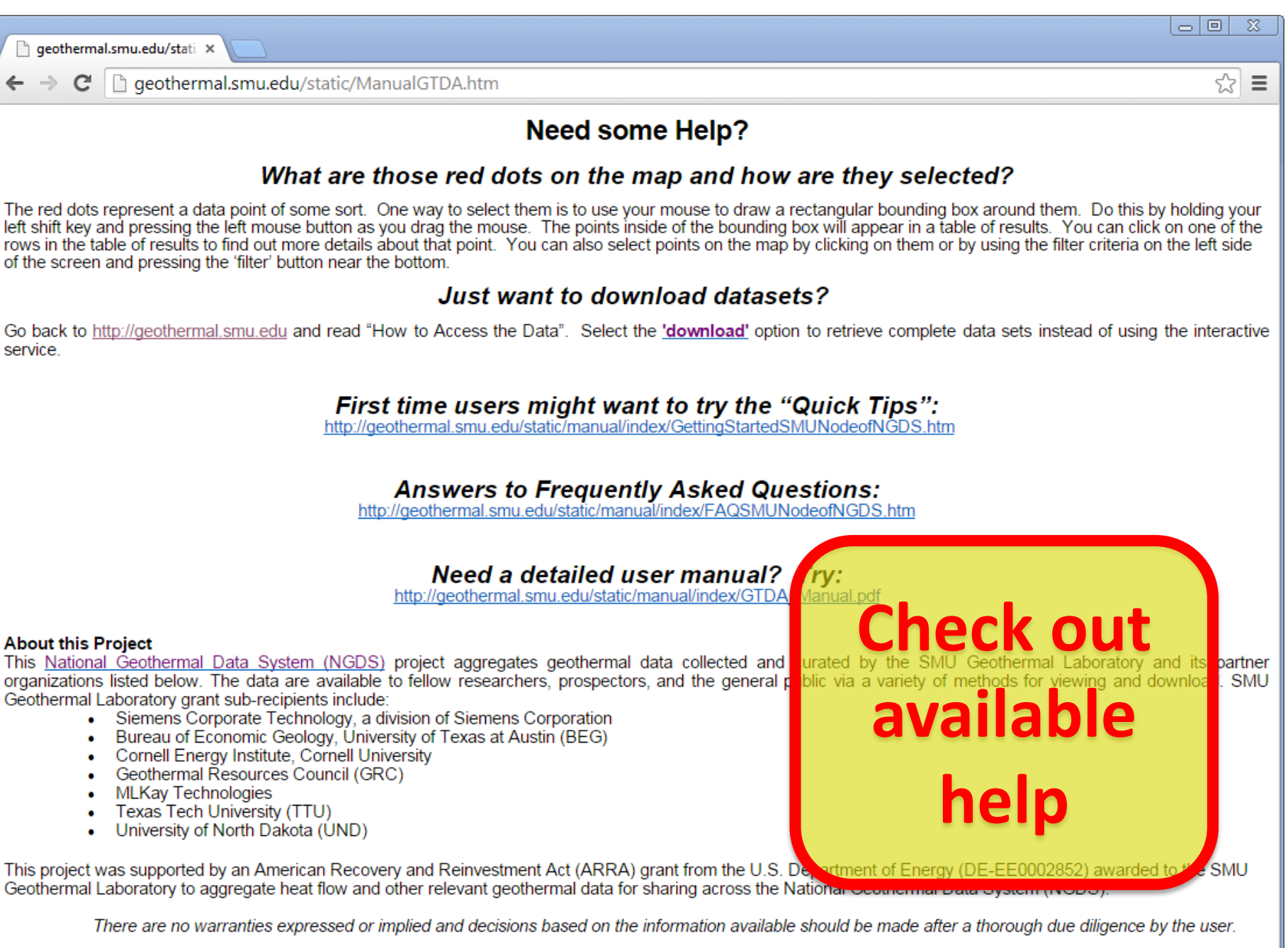
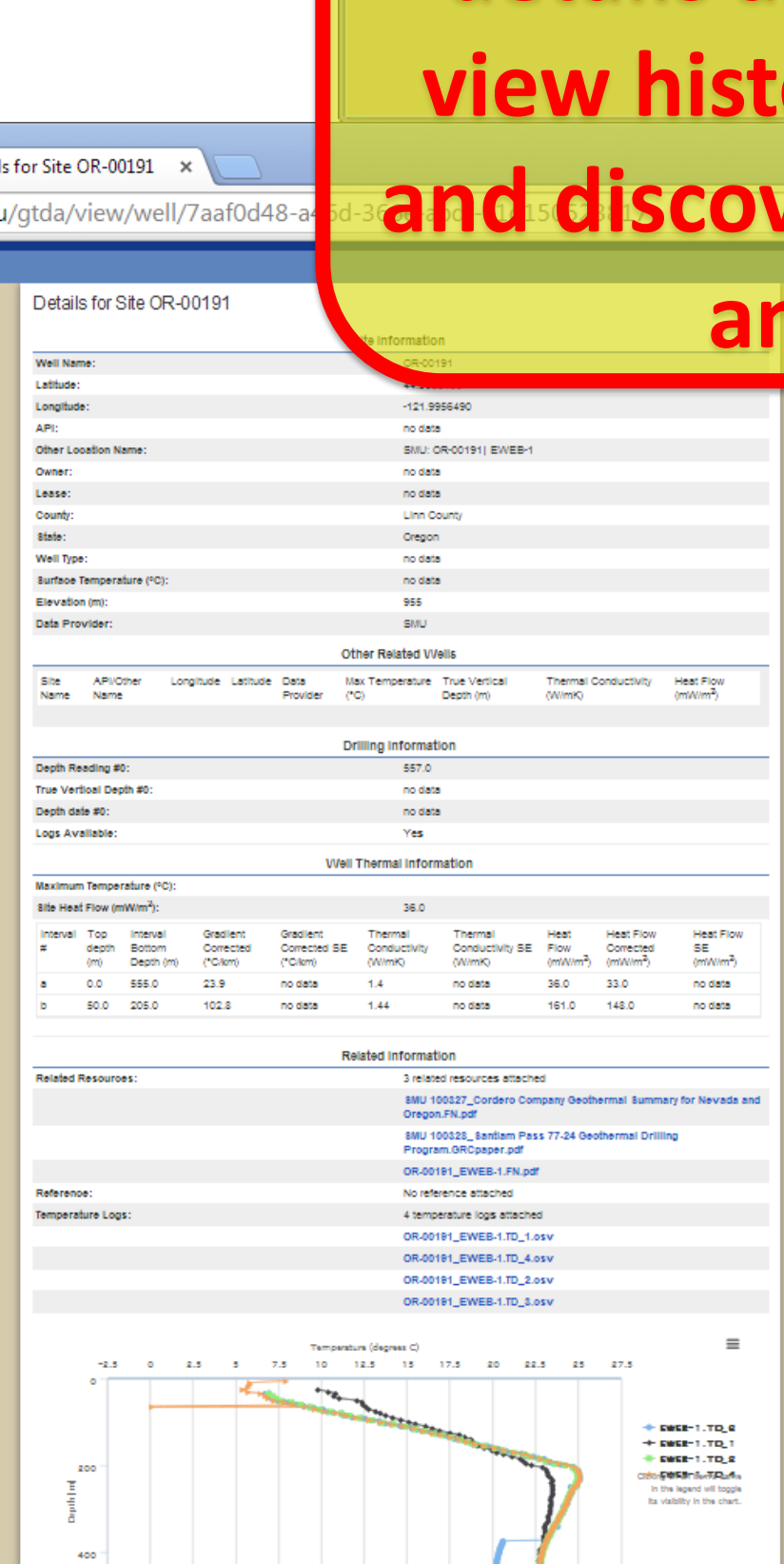


Login as a 'visitor' to browse data, explore well details and field notes, view histograms, search and discover publications, and more



Download complete datasets in multiple formats

| Description of Files Available for Download | File Download Links | File Format Explanation | File Download Links using Web Map Service (WMS) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Aggregated Well Data A listing of all sites with point location coordinates from SMU and all of the partner organizations. Bottom Hole Temperature (BHT), depth, heat flow and thermal conductivity values provided, as well as additional data for more detailed heat flow and temperature data deliveries. Note some sites are heterogeneously, other than wells. | Full File as CSV (2.0MB) Sample 20 Rows CSV Full File as WMS | About the Dataset PDF JAI Schema Geospatial Features/Views | WMS ver. 1.1.1 WMS ver. 1.1.2 |
| Borehole Temperature Observation in Content Model Format A nationwide aggregation of multiple data submissions containing temperature and depth data. Contains both equilibrium logged measurements and BHT values. Includes geothermal wells of oil and gas wells, water wells, test wells, etc. | Full File as CSV (13.1MB) Sample 20 Rows CSV Full File as WMS | Content Model Format JAI Schema Geospatial Features/Views | WMS ver. 1.1.1 WMS ver. 1.1.2 |
| Fluid Flow Observation and Discharge in Content Model Format Primary data on Texas Oil and Gas wells provided by MLKay Technologies gathered from Texas Rail Road Commission information. WARDING. The complete file contains nearly 100 records. | Full File as CSV (1.0MB) Sample 20 Rows CSV Full File as WMS | Content Model Format JAI Schema Geospatial Features/Views | WMS ver. 1.1.1 WMS ver. 1.1.2 |
| Geologic Reservoir in Content Model Format Data on temperature, depth, net sand thickness, porosity, and other key geothermal reservoir characteristics in Texas. Based on BEG analysis. | Full File as CSV (1.0MB) Sample 20 Rows CSV Full File as WMS | Content Model Format JAI Schema Geospatial Features/Views | WMS ver. 1.1.1 WMS ver. 1.1.2 |
| Heat Flow Observation in Content Model Format An aggregation of all heat flow values provided in the different submission files. Combines values based on equilibrium logged measurements from multiple depth intervals. Values based on BHT data and values from published data sources. Also includes sites without a heat flow value, but that have other important data useful in determining heat flow, such as | Full File as CSV (1.0MB) Sample 20 Rows CSV Full File as WMS | Content Model Format JAI Schema Geospatial Features/Views | WMS ver. 1.1.1 WMS ver. 1.1.2 |



Check out available help

Use of the system is being offered to the public and other research institutions free of charge, thanks to the support provided by the Department of Energy under the American Recovery and Reinvestment Act of 2009 (Award No. DE-EE0002852).

The SMU Geothermal Lab will continue to add new materials to the system as time and resources are available. If you are in need of data mining to assist you on a project, please contact Cathy Chickering (214-768-1510) or Maria Richards (214-768-1975) to discuss opportunities.