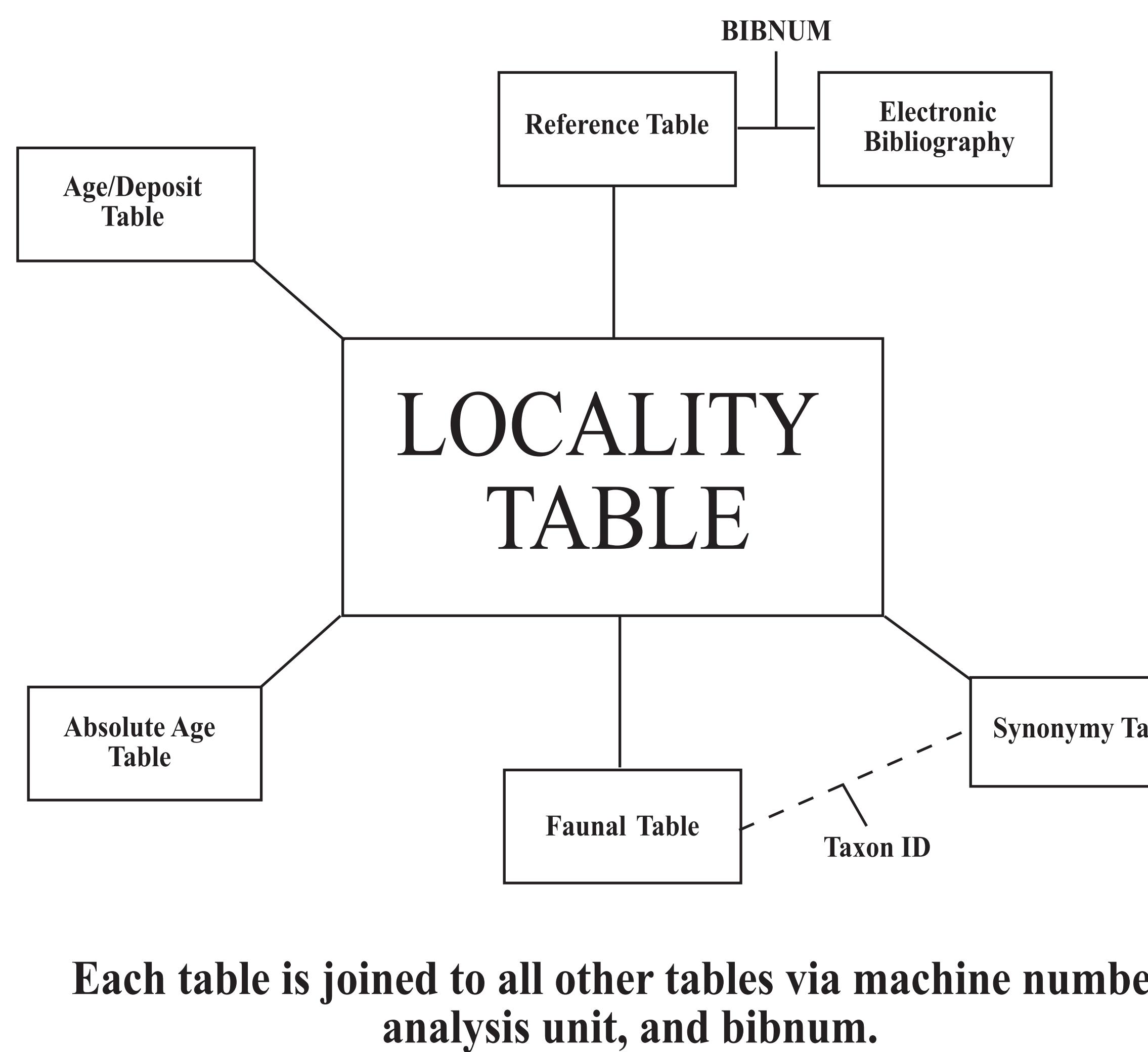


OVERVIEW

The Miocene Mammal Mapping Project (MIOMAP) database, housed at the University of California at Berkeley, is now online for use by the scientific community. MIOMAP is a relational database designed for web-based distribution and incorporation into a GIS analytical tool (ARC/INFO 8.3). Originally developed in Paradox 9.0 following the FAUNMAP data structure, MIOMAP has now been transferred into MySQL for online accessibility. The database includes published fossil mammal localities between 30 and 5 million years old (Arikareean through Hemphillian) from the western United States as well as some well-identified, unpublished species represented by voucher specimens in museums. Information associated with each locality includes latitude, longitude, relevant taxonomy and synonymies, geologic age, depositional environment, taphonomic attributes, bibliographic information, and, when available, numbers of identified specimens (NISP) and minimum number of individuals represented (MNI). The structure of the database is shown below.



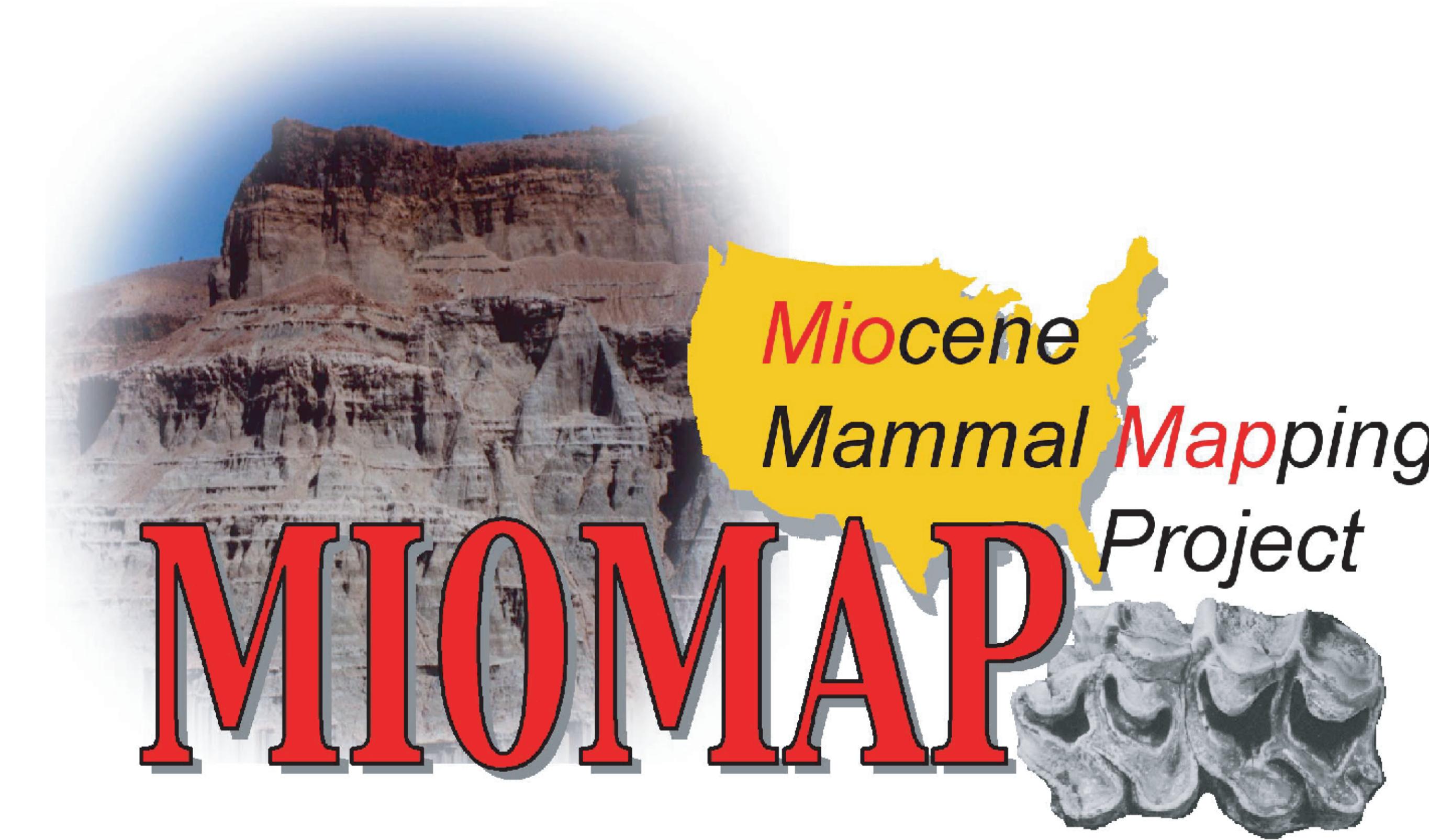
MIOMAP is currently accessible at:

<http://miomap.berkeley.edu>

Queries of the database can be made through HTML forms or through an interactive mapping interface that utilizes open source MapServer 4.0 software. Search results or the entire dataset can be downloaded in Microsoft Excel format. The figures to the right represent screen shots taken from the online interfaces.

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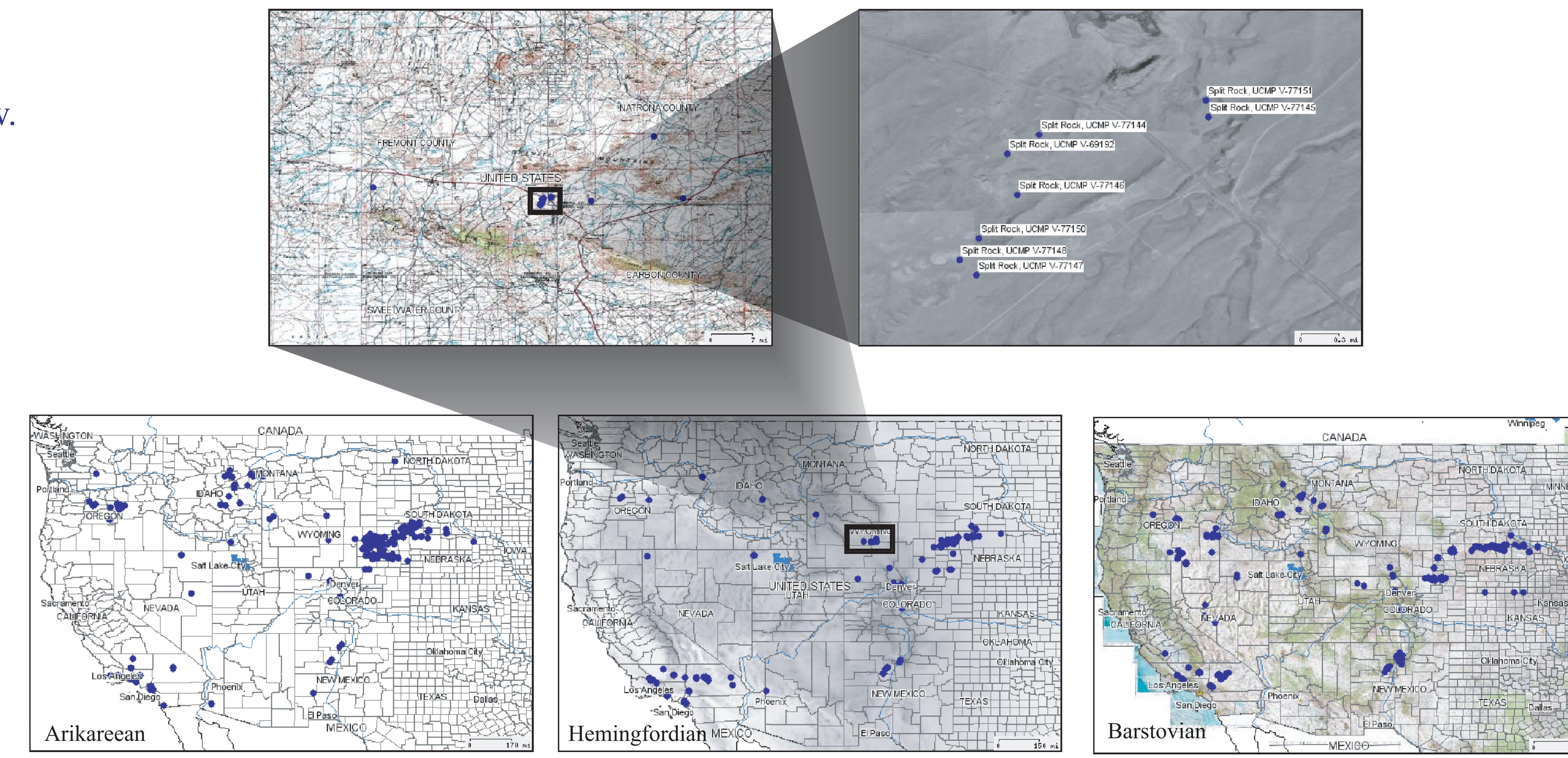
MARC A. CARRASCO, ANTHONY D. BARNOSKY,
EDWARD B. DAVIS, AND BRIAN P. KRAATZ

INTEGRATIVE BIOLOGY and Museum of Paleontology
University of California at Berkeley

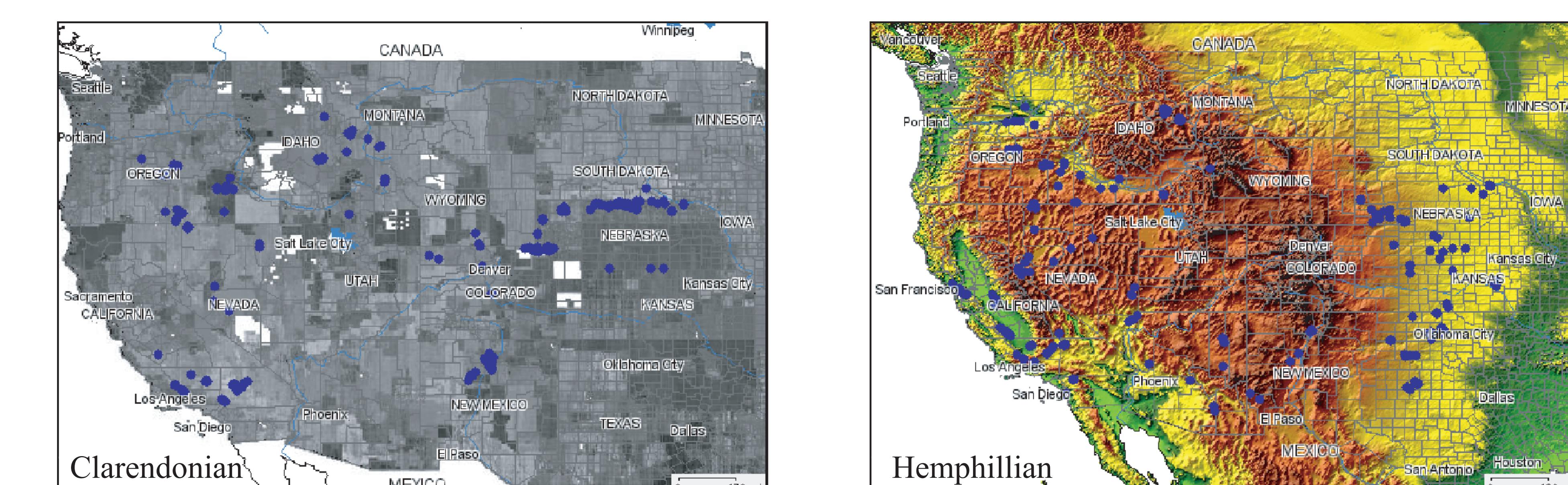
This screenshot shows the main landing page of the MIOMAP website. It features the project logo at the top left, followed by a brief description of the resource. Below this are sections for "Goals", "Data", "Tool Box", and "Results". The "Data" section includes links for "Read Before Using", "Taxonomic Standard Database", "Geographic Database", and "Downloadable Data". The "Tool Box" section contains links for "Abstracts", "Publications", "Images", and "Education". The "Results" section lists "Evolution of Terrestrial Ecosystems", "FAUNMAP", "NAMPD", "Paleobiology Database", and "Paleontology Database Network". At the bottom, there are links for "For more information contact", "Funding", and "Visits to Barnosky Lab".

http://www.ucmp.berkeley.edu/miomap/miomap_home_page.htm

<http://miomap.berkeley.edu>

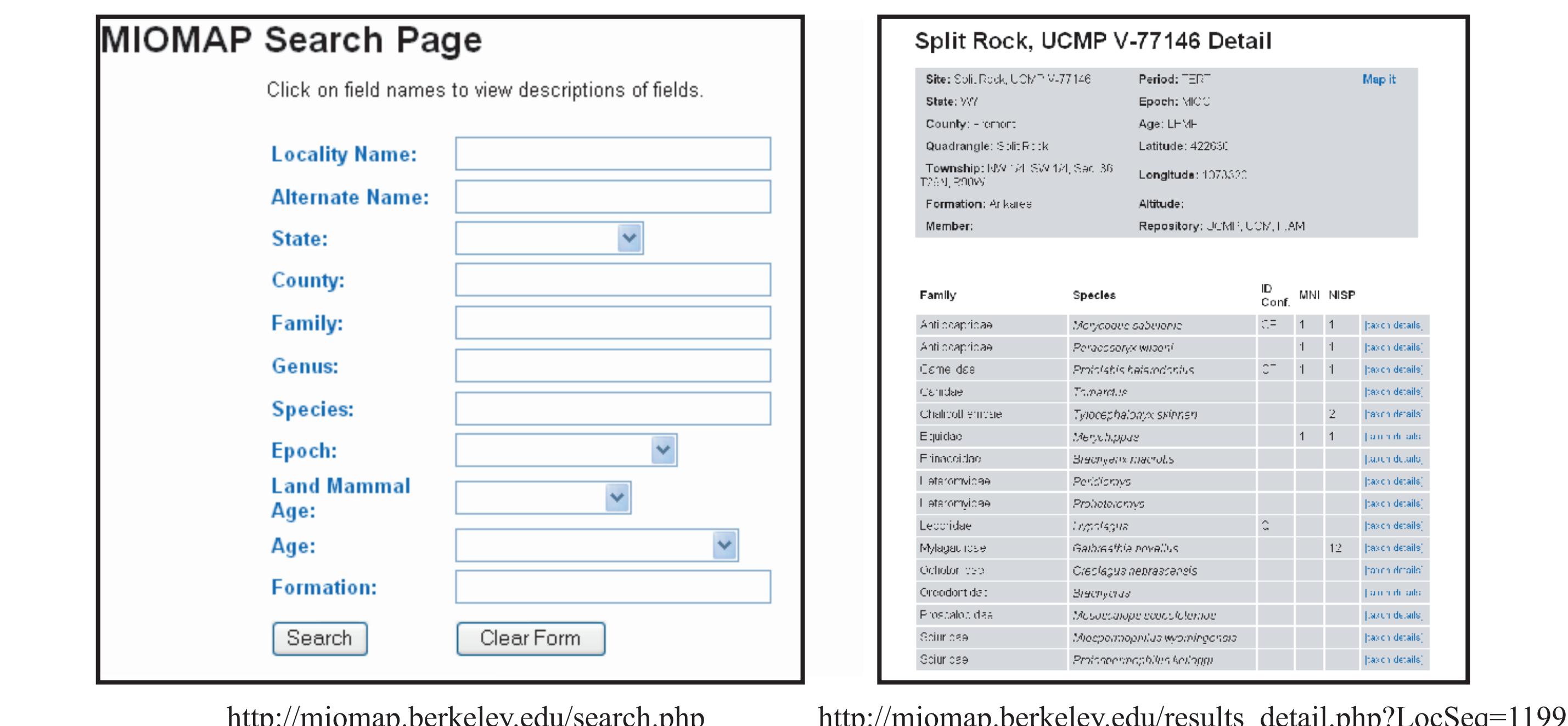


These maps, generated using the online MapServer 4.0 software, summarize the fossil-bearing localities (blue dots) by land mammal age. The various map backgrounds illustrate some of the options available to users. In addition, the online mapping interface allows users to zoom in on specific geographic regions (as shown above for the Split Rock localities).



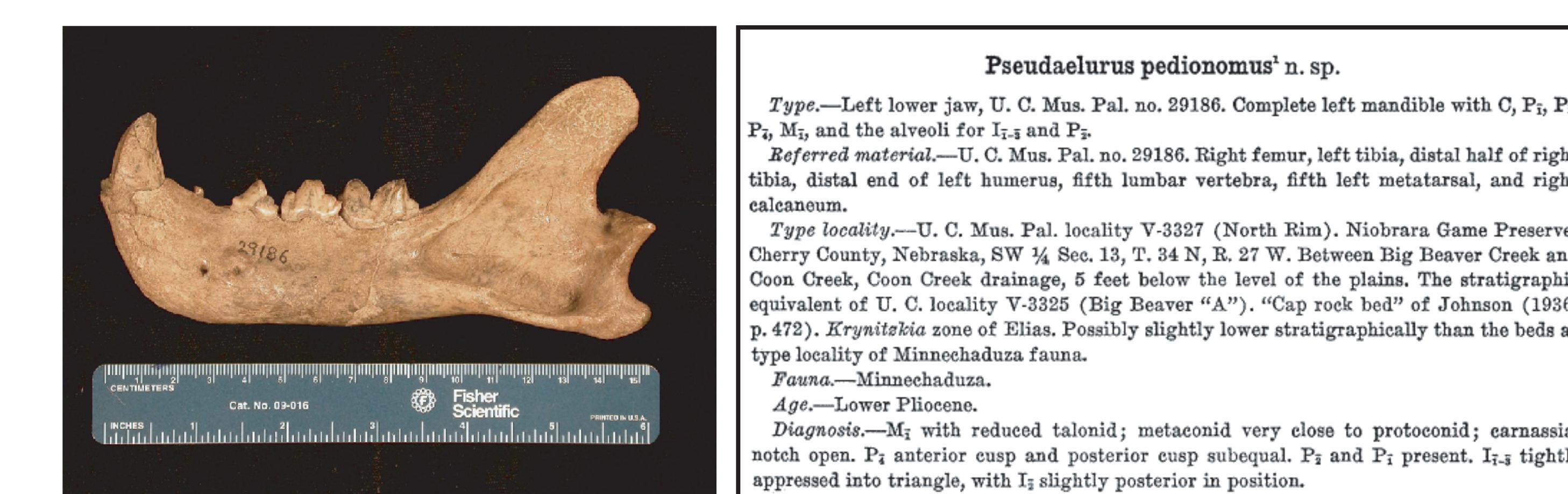
The MIOMAP introductory page (above) contains general information including the goals of the project, the data structure, tips for searching, and related links.

Below are images of the MIOMAP basic search page as well as a sample detailed output of one of the Split Rock localities.



http://miomap.berkeley.edu/results_detail.php?LocSeq=1199

In the coming months, the web site will see extensive revisions, including a new look, adding more links to digital photos of type specimens and diagnoses (sample photo and diagnosis below), and more tools for spatial and paleoecological analyses. However, during this time we expect the database to continue to be fully accessible.



Please e-mail us with suggestions that we can incorporate as we finalize the web site. We particularly welcome:

- Ideas to make the site maximally user-friendly
- Identification of any data errors

comments@miomap.berkeley.edu