
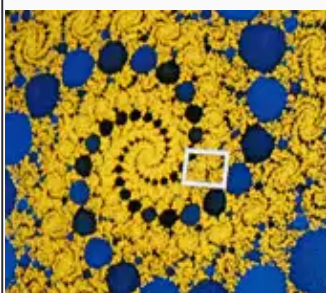




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## Old CMS Lab: The Computer Mapping Sciences Laboratory

Established in 1988, the CMS Laboratory provides a variety of computing facilities for instruction and research in computer cartography, remote sensing, geographic information systems, and spatial analysis.

Through support from affiliated faculty research and equipment grants, the CMS Lab has gone through several generations and continued to upgrade its computing facilities. The CMS Lab currently operates 12 Window-based computers, one black/white laser printer, one color laser printer, a scanner, a large-format plotter, a large-format scanner, and a large-format digitizer. A data projector, a laptop computer, and a conference phone are also available for short-term loan to faculty and students. A variety of software for GIS, image processing, expert system, statistics, mathematics, database management, programming, and graphic presentation is installed. Some of the software currently available includes the ESRI products, the Intergraph Geomedia products, Erdas/Imagine, Surfer, SPSS, SAS, S-Plus, SpaceStat, Visual C++, Fortran, Microsoft Office, Matlab, Mathematica, and Qnet. A server housed in the Lab links all the computers at the CMS, Spatial, Global, and Remote Sensing Laboratories.

In addition to software and hardware, the CMS Lab created a number of specialized digital boundary files in different software formats. These include the 1982 China County Boundary File and the Historical United States County (HUSCO) Boundary Files, both of which are distributed by the Department's Geosciences Publications. A number of U.S. census boundary files are also available for use.

The CMS Lab is accessible to faculty and graduate students in the Department of Geography and Anthropology for research and graduate instruction. The CMS Lab now has added two new extensions, the Global Lab and the Spatial Lab, for classroom teaching. Together with [the CADGIS Lab](#) (a lab jointly operated by the Department of Geography and Anthropology and the College of Art & Design), the Department at LSU is arguably among the top in the nation in providing state-of-the-art facilities for research and instruction in GIS, mapping, and remote sensing.

## Old Global Lab

Originally named as the Computer Mapping Science Annex, and also affectionately called "Room 253" because of its location in Rm. 253 of the old wing of the Howe-Russell

Geoscience Complex, the Global Laboratory was established in 1998, ten years after the establishment of the CMS Laboratory. Renamed to its present name in 2004, the Global Laboratory is designed to serve as a teaching laboratory for smaller classes and seminars. With support primarily from faculty grants, the Laboratory currently has 12 Window-based workstations, 2 other computers linked to a digitizer, a scanner, and a printer, all linked by the Windows server located in the CMS Laboratory. As in the CMS Laboratory, the Global Laboratory can access main GIS and remote sensing and statistics software through the network. The facility is open during the office hours to graduate and undergraduate students in the Department of Geography and Anthropology and/or students enrolled in classes offered by the Department and related curricula.

## Old Spatial Lab

As part of the long-term strategic planning, the Spatial Laboratory was established in 2004 to provide state-of-the art computing facilities for teaching larger sections of undergraduate or graduate technology-oriented classes. Made possible with a grant from the LSU Center for Computation and Technology, the Spatial Laboratory, housed in Rm. 260 Howe-Russell Geoscience Complex, has 27 Windows workstations for students, a laser printer, and a multi-media console for instructor. Equipped with a central computer, dual screens, dual data/video projectors, a video cassette recorder, a document camera, and microphones, the multi-media console allows instructors to project online graphics and information while displaying other documents via the camera. The computers are linked with the server at the Computer Mapping Science Laboratory and are served with a suite of GIS, remote sensing, statistical software including ESRI products, Erdas/Imagine, SPSS, Geomedia, and Microsoft Office. Same as the Global Laboratory, the Spatial Laboratory is open to graduate and undergraduate students in the Department of Geography and Anthropology and/or students enrolled in classes offered by the Department and related curricula.

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