

GIS in Education Bibliography – Last Updated – 30 Nov 2004

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Online bibliographies are on:

<http://rockyweb.cr.usgs.gov/public/outreach/articles/chapref.pdf>

<http://kangis.org/research/>

and

<http://campus.esri.com/library/>

Books and Articles

Alibrandi, Marsha. 2003. **GIS in the Classroom: Using Geographic Information Systems in Social Studies and Environmental Science.** Heinemann, Portsmouth, NH.

Acheson, Gillian 2004. An Investigation of Secondary Science Teachers' Use of GIS in the Classroom. In Proceedings of the 2004 Society for Technology and Teacher Education International Conference, pp. 4595-4999

Baker, T. and S. White. 2003. The Effects of G.I.S. on Students' Attitudes, Self-efficacy, and Achievement in Middle School Science Classrooms. **Journal of Geography** 102(6): 243-254.

Broda, H. and R. Baxter. 2003. Using GIS and GPS Technology as an Instructional Tool. **The Social Studies**, 94(4): 158-160.

Kerski, J. 2003. The Implementation and Effectiveness of Geographic Information Systems Technology in Secondary Education. **Journal of Geography**, 102(3): 128-137.

Laituri, Melinda, and Sophia Linn. 2001. Graduate students plus Grade School (K-12) plus Geography Standards plus GIS = Great Success! *Proceedings of the 1999 ESRI User Conference.*

<http://gis.esri.com/library/userconf/proc99/proceed/papers/pap324/p324.htm>

Student projects are on:

<http://www.cnr.colostate.edu/avprojects/csu-psd>

Lloyd, W. 2001. Integrating GIS into the Undergraduate Learning Environment. **Journal of Geography**, 100(5): 158-163.

Northon, C. 2003. Integrating Geographic Information System (GIS) into Secondary Education: A Community-Based Learning Experience. Available in ERIC database, ED478822.

Oldakowski, R. 2001. Activities to Develop a Spatial Perspective Among Students in Introductory Geography Courses. **Journal of Geography**, 100(6): 243-250.

Patterson, M., K. Reeve, and D. Page. 2003. Integrating Geographic Information Systems into the Secondary Curricula. **Journal of Geography** 102(6): 275-81.

Sullivan, K., J. Crews and D. Beed. 2003. Connecting K-12 students locally, regionally, and beyond using remotely sensed imagery and thematic events. Proceedings of the 2003 Hawaii International Conference on Education. Accessed at http://www.hiceducation.org/Edu_Proceedings on 13 Aug. 2004.

West, B. 2003. Student Attitudes and the Impact of GIS on Thinking Skills and Motivation. **Journal of Geography** 102(6): 267-274.

Wiegand, P. 2003. School Students' Understanding of Choropleth Maps: Evidence From Collaborative Mapmaking Using GIS. **Journal of Geography** 102(6): 234-242.

Wilder, A., J. Brinkerhoff, and T. Higgins. 2003. Geographic Information Technologies + Project-Based Science: A Contextualized Professional Development Approach. **Journal of Geography** 102(6): 255-266.

Wigglesworth, J. 2003. What is the Best Route? Route-Finding Strategies of Middle School Students Using GIS. **Journal of Geography** 102(6): 282-291.

Ph.D. Dissertations

Abbott, T. 2001. An evaluation of a geographic information system software and its utility in promoting the use of integrated process skills in secondary students. Ph.D. Dissertation, University of Connecticut, Storrs, CT.

Baker, T. 2002. The effects of geographic information system (GIS) technologies on students' attitudes, self-efficacy, and achievement in middle school science classrooms. Ph.D. Dissertation, University of Kansas, Lawrence, Kansas.

Baulch, S. 2003. Using an online course to foster GIS knowledge in high school students. M.A. Thesis, Carleton University, Ottawa, Ontario, Canada

Brown, S. 1999. Teaching with a GIS using existing grade 7--12 curricula. Ph.D. Dissertation, State University of New York College of Environmental Science and Forestry, Syracuse, NY.

Crabb, K. 2001. Case study of geographic information system integration in a high school world geography classroom. Ed.D. Dissertation, University of Georgia, Athens, GA.

Hagevik, R. 2003. The effects of online science instruction using geographic information systems to foster inquiry learning of teachers and middle school science students. Ph.D. Dissertation, North Carolina State University, Raleigh, NC.

Harb, E. 2002. Factors needed to support the effective use of technology and GIS in P--12 (Social Studies) classrooms. Ph.D. Dissertation, University of Louisville, Louisville, KY.

Kerski, J. 2000. The implementation and effectiveness of geographic information systems technology and methods in secondary education. Ph.D. Dissertation, University of Colorado at Boulder, Boulder, CO.

Shin, E-K 2003. Using geographic information system to enhance elementary students' understanding of geography and history: A case study. Ph.D. Dissertation, University of South Carolina, Columbia, SC.

Wigglesworth, J. 2000. Spatial problem-solving strategies of middle school students: Wayfinding with geographic information systems. Ed.D. Dissertation, Boston University, Boston, MA.