

Ryan Owens
Hillslopes, Rivers, and People
4/27/05

Bibliography

Topic: Effects of 18th century hillslope agriculture and associated deforestation on aquatic systems. Focus on New England or similar regions, particularly where agriculture has declined and forests have regrown.

Costa, J. E. 1975. Effects of agriculture on erosion and sedimentation in the Piedmont Province, Maryland. Geological Society of America Bulletin 86:1281-1286.

Good treatment of where historically eroded sediment is now and what's happening to it following adoption of soil-conservation practices.

Francis, D. R. and D. R. Foster. 2001. Response of small New England ponds to historic land use. The Holocene 11(3):301-312.

Uses pond sediment analysis, including pollen, to relate watershed vegetation changes to pond ecology changes in response to rise and fall of hillslope agriculture. Good paper.

Goslar, T., M. Ralska-Jasiewiczowa, B. van Geel, B. Lacka, K. Szeroczynska, L. Chrost, and A. Walanus. Anthropogenic changes in the sediment composition of Lake Gosciaz (central Poland), during the last 330 years. 1999. Journal of Paleolimnology 22:171-185.

Much like the Francis paper, but in Poland (not in Polish).

Huang, C. C. and M. O'Connell. 2000. Recent land-use and soil-erosion history within a small catchment in Connemara, western Ireland: evidence from lake sediments and documentary sources. Catena 41:293-335.

More lake sediment study. Excellent figures, but very very long.

Jennings, K. L., P. R. Bierman, and J. Southon. 2003. Timing and style of deposition on humid-temperate fans, Vermont, United States. Geological Society of America Bulletin 115:182-189.

Longer term than just New England hill farming, but covers some recent erosion near Burlington. Paul is an author, so it must be good.

Ritchie, J. C., V. L. Finney, K. J. Oster, and C. A. Ritchie. 2004. Sediment deposition in the flood plain of Stemple Creek Watershed, northern California. Geomorphology 61:347-360.

Uses the ¹³⁷Cesium technique to document agricultural sediment deposition.

Sidorchuk, A. Y. and V. N. Golosov. 2003. Erosion and sedimentation on the Russian Plain, II: the history of erosion and sedimentation during the period of intensive agriculture. Hydrological Processes 17:3347-3358.

Doesn't give a very good idea of what the place looks like, but goes all the way back to the 16th century.

Xu, J. 2003. Sedimentation rates in the lower Yellow River over the past 2300 years as influenced by human activities and climate change. Hydrological processes 17:3359-3371.

A bit more long-term.