

## **Bibliography „Boden und Archäologie“**

*Zusammengestellt von D. Pietsch, Stand 26.03.2013 (ohne Anspruch auf Vollständigkeit)*

Albert, R.M. and Weiner, S. (2001): Study of phytoliths in prehistoric ash layers using a quantitative approach. In J.D. Meunier and F. Coline (Eds) *Phytoliths, applications in Earth Sciences and Human History*. A.A. Balkema publishers, The Netherlands, p. 251–266.

Barboni, D., Bonnefille, R., Alexandre, A., Meunier, J.D. (1999): Phytoliths as palaeoenvironmental indicators, West Side Middle Awash valley, Ethiopia: *Palaeogeography, Palaeoclimatology, Palaeoecology*, 152 (1-2): 87–100.

Bork, H.R. (1989): Soil erosion during the past Millennium in Central Europe and its significance within the geomorphodynamics of the Holocene. In: Ahnert, F. (ed.): *Landforms and landform evolution in West Germany*. *Catena Supplement* 15: 121–131.

Bullard, R.G. (1985): Sedimentary environments and lithologic materials at two archaeological sites. In: G. Rapp, J. Gifford (eds.): *Archaeological Geology*, New Haven.

Butzer, C.W. (1982): *Archaeology as human ecology*. Cambridge.

Carrión, Y., Kaal, J., López-Sáez, J.A., López-Merino, L., Cortizas, M.A. (2010): Holocene vegetation changes in NW Iberia revealed by anthracological and palynological records from a colluvial soil. *The Holocene* 20(1): 53–66.

Ciolkosz, E.J., Petersen, G.W., Cunningham, R.L., Matelski, R.P. (1979): Soils developed from colluvium in the ridge and valley area of Pennsylvania. *Soil Science* 128(3): 153–162.

Collins, M.E., Carter, B.J., Hart, J.T., Foss, J.E. (eds.) (1995): **Pedological perspectives in archaeological research**. Soil Science Society of America, spec. Publi. 44, Madison, Wisconsin.

Collins, M.E., Shapiro, G. (1987): Comparison of human-influenced and natural soils at the San Luis archaeological site, Florida. *Soils Science Society of America Journal* 51, 171–176.

Cornwall, I.W. (1958): **Soils for archaeologists**. London.

Courty, M.A., Goldberg, P., Macphail, R. (1989): *Soils and micromorphology in archaeology*. Cambridge: Cambridge University Press.

Creameens, D.L., Kite, J.S., Mandel, R.D. (2003): Introduction. *Geoarchaeology* 18 (7): 681–683.

Davidson, D.A., Shackley, M.L. (Eds) (1976): *Geoarchaeology. Earth science and the past*. London: Westview Press.

Denham, T.P., Haberle, S.G., Letfer, C., Fullagar, R., Field, J., Therin, M., Porch, N., Winsborough, B. (2003): Origins of Agriculture at Kuk Swamp in the highlands of New Guinea. *Science* 301: 189–193.

Devos, Y., Fechner, K., Vrydaghs, L., Degraeve, A., Deligne, F. (2007):. Contribution of archaeopedology to the palaeoenvironmental reconstruction of (pre-)urban sites at Brussels (Belgium). The example of the Treurenberg site. In: Boschian, G. (Ed.), Proceedings of the Second International Conference on Soils and Archaeology, Pisa, May 12–15, 2003. Società Toscana di Scienze Naturali, Pisa, pp. 145–151 (= Atti della Società Toscana di Scienze Naturali – Memorie serie A, 112).

Devos, Y., Vrydaghs, L., Degraeve, A., Fechner, K. (2009): An archaeopedological and phytolitarian study of the "Dark Earth" on the site of Rue de Dinant (Brussels, Belgium). *Catena* 78: 270-284

Dramis, F., Umer, M., Calderoni, G., Haile, M. (2003): Holocene climate phases from buried soils in Tigray (Northern Ethiopia): comparison with lake level fluctuations in the Main Ethiopian Rift. *Quaternary Research* 60: 274–283.

Draut, A.E., Rubin, D.M., Dierker, J.L., Fairley, H.C., Griffiths, R.E., Hazel Jr., J.E., Hunter, R.E., Kohl, K., Leap, L.M., Nials, F.L., Topping, D.J., Yeatts, M. (2008): Application of sedimentary-structure interpretation to geoarchaeological investigations in the Colorado River Corridor, Grand Canyon, Arizona, USA. *Geomorphology* 101, 497–509.

Dreibrodt, S., Lomax, J., Nelle, O., Lubos, C., Fischer, P., Mitusov, A., Reiss, S., Radtke, U., Nadeau, M., Grootes, P.M., Bork, H.-R. (2010a): Are mid-latitude slopes sensitive to climatic oscillations? Implications from an Early Holocene sequence of slope deposits and buried soils from eastern Germany. *Geomorphology* 122: 351–369.

Dreibrodt, S., Lubos, C. Terhorst, B., Damm, B., Bork, H.-R. (2010b): Historical soil erosion by water in Germany: Scales and archives, chronology, research perspectives. *Quaternary International* 222: 80–95.

Dreibrodt, S., Nelle, O., Lütjens, I., Mitusov, A., Clausen, I. Bork, H.-R. (2009): Investigations on buried soils and colluvial layers around Bronze Age burial mounds at Bornhöved (northern Germany): an approach to test the hypothesis of 'landscape openness' by the incidence of colluviation. *The Holocene* 19(3): 487–497.

Eggert, M. K. H. (2005): *Prähistorische Archäologie: Konzepte und Methoden*, Tübingen/Basel.

Eitel, B. (ed.) (2006): *Holocene landscape development and geoarchaeological research. Zeitschrift für Geomorphologie, Suppl.-Bd. 142*. Berlin/Stuttgart.

Emadodin, I., Reiss, S., Bork, H-R. (2011): Colluviation and soil formation as geoindicators to study long-term environmental changes. *Environmental Earth Sciences* 62: 1695–1706.

Fechner, K., Langohr, R., Devos, Y. (2004): **Archaeopedological checklists**. Proposal for a simplified version for the routine archaeological record in Holocene rural and urban sites of Nord-Western Europe. In: Carver, G. (Ed.), *Digging in the dirt: Excavations in a new millennium*. John and Erica Hedges Ltd, Oxford (=British Archaeological Reports, International Series, S1256), pp. 240–256.

Ferring, C.R. (1992): Alluvial pedology and geoarchaeological research. In: V.T. Holliday (ed.): Soils in archaeology. Washington DC, pp. 1–39.

Foss, J.E., Timpson, M.E. Lewis, R.J. (1995): **Soils in alluvial sequences**: Some archaeological implications. Soil Science Society of America, Special Publication 44. Madison WI.

Fredlund, G.G., and Tieszen, L.L (1997). Phytolith and Carbon Isotope Evidence for Late Quaternary Vegetation and Climate Change in the Southern Black Hills, South Dakota. *Quaternary Research* 47: 206–217.

Fuchs, M., Zöller, L. 2006: Geoarchäologie aus geomorphologischer Sicht. Eine konzeptionelle Betrachtung. *Erdkunde* 60, 139–146.

Gasche, H. Tunca, Ö. 1983. **Guide to archaeostratigraphic classification and terminology**: Definitions and principles. *Journal of Field Archaeology* 10/3, 325–335.

Gerlach, R., Baumewerd-Schmidt, H., v.d. Borg, K., Eckmeier, E., Schmidt, M.W.I. (2006): Prehistoric alteration of soil in the Lower Rhine Basin, Northwest Germany. *Geoderma*

Goldberg, P., Macphail, R.I. (2006): Practical and theoretical geoarchaeology. Malden, Oxford, Carlton.

Griffith, M.A. 1980. A pedological investigation of an archaeological site in Ontario, Canada. I. An examination of the soils in and adjacent to a former village. *Geoderma* 24, 327–336.

Harrison J. B. J., McFadden L. D., Weldon R. J. (1992): The influence of colluvial deposition on rates of soil development in the Transverse Ranges, southern California. *Israel Journal of Earth Sciences* 41(2-4): 139–154.

Hassan, F.A. 1978. **Sediments in archaeology**: Methods and implications for palaeoenvironmental and cultural analysis. *Journal of Field Archaeology* 5, 197–213.

Hedberg, H.D. (Ed.) (1976). *International Stratigraphic Guide*. New York: J. Wiley.

Holliday, V.T. (1992): Soil formation, time and archaeology. In: V.T. Holliday (ed.): Soils in archaeology, Washington DC, pp. 101–118.

Holliday, V.T. (Ed.) (2004): **Soils in archaeological research**, Oxford University Press, N.Y.

Holliday, V.T. Gartner, W.G. (2007). Methods of P analysis in archaeology. *Journal of Archaeological Science* 34, 301–333.

Hunt, C.O., Gilbertson, D. D., El-Rishi, H.A. 2007. An 8000-year history of landscape, climate and copper exploitation in the Middle East: the Wadi Faynan and the Wadi Dana National Reserve in southern Jordan. *Journal of Archaeological Science* 34, 1306–1338.

Johnson, D.L., Keller, E.A., Rockwell, T.K. (1990): Dynamic pedogenesis: new views and some key soil concepts and a model for interpreting quaternary soils. *Quaternary Research* 33: 306–319.

- Joshi, V.U., Kale, V.S. (1997): Colluvial deposits in northwest Deccan, India: their significance in the interpretation of Late Quaternary history. *Journal of Quaternary Science* 12: 391–403.
- Kaiser, K., Schoch, W.H., Mieke, G. (2007): Holocene paleosols and colluvial sediments in Northeast Tibet (Qinghai Province, China): Properties, dating and paleoenvironmental implications. *Catena* 69: 91–102.
- Keeley, H. (1981): **Soil Handbook for Archaeologists**. London: Academic Journal Offprint from - Institute of Archaeology - London 18.
- Kinne, A. (2005): **Tabellen und Tafeln zur Grabungstechnik**, Dresden.
- Kleber, A. (2006): „Kolluvium“ does not equal „colluvium“. *Zeitschrift für Geomorphologie N.F.* 50(4): 541–542.
- Knudson, K.J., Frink, L. (2010): Ethnoarchaeological analysis of Arctic fish processing: chemical characterization of soils on Nelson Island, Alaska. *Journal of Archaeological Science* 37, 769–783.
- Kühn P., Pietsch D., Gerlach, I. (2010): Archaeopedological analyses around a Neolithic hearth and the beginning of Sabaeen irrigation in the oasis of Ma'rib (Ramlat as-Sab'atayn, Yemen). *Journal of Archaeological Science* 37: 1305–1310.
- Leopold, M., Völkel, J. (2007): Colluvium: definition, differentiation, and possible suitability for reconstructing Holocene climate data. *Quaternary International* 162-163: 133–140.
- Lima, H.N., Schaefer, C.E.R., Mello, J.W.V., Gilkes, R.J., Ker, J.C. (2002): Pedogenesis and pre-Colombian land use of « Terra preta Anthrosols » (« Indian black earth ») of Western Amazonia. *Geoderma* 110, 1–17.
- Lippi, M.M., Bellini, C., Benvenuti, M. Fedi, M. (2010): Palaeoenvironmental signals in ancient urban setting: The heavy rainfall record in Sumhuram, a pre-Islamic archaeological site of Dhofar (S Oman). *The Holocene* 21(6), 951–965.
- Mäckel, R., Schneider, R., Seidel, J. (2003): Anthropogenic impact on the landscape of Southern Badenia (Germany) during the Holocene – documented by colluvial and alluvial sediments. *Archaeometry* 45: 487–501.
- Marwick, B. (2005): Element concentrations and magnetic susceptibility of anthrosols: indicators of prehistoric human occupation in the inland Pilbara, Western Australia. *Journal of Archaeological Science* 32, 1357–1368.
- MoLAS (1994): **Archaeological site manual**. London: Museum of London Archaeological Service, third edition.
- Nikiforoff, C.C. (1943): Introduction to paleopedology. *American Journal of Soil Science* 241, 194–200.

- North, F. (1937): **Geology for Archaeologists**. Academic Journal Offprint from - Journal - Royal Archaeological Institute 94 (1).
- Ollier, C., Pain, C. (1996): *Regolith, soils and landforms*, Chichester.
- Pietsch, D., Kühn P., Scholten, T., Brunner, U., Hitgen, H., Gerlach, I. (2010): Holocene soils and sediments around Ma'rib Oasis, Yemen: Further Sabaeen treasures? *The Holocene* 20(5): 785–799.
- Pietsch, D., Machdo, J.M. (2012): Colluvial deposits - proxies for climate change and cultural chronology. A case study from Tigray, Ethiopia. *Zeitschrift für Geomorphologie – Annals of Geomorphology*. Special Issue 'Geomorphological systems' DOI: 10.1127/0372-8854/2012/S-00114.
- Pietsch, D., Mabit, L. (2012). Terrace soils in the Yemen Highlands: using physical, chemical and radiometric data to assess the suitability for agriculture and the vulnerability to degradation. *Geoderma* 185-186, 48–60.
- Pietsch, D., Schenk, K., Japp, S., Schnelle, M. (2013): **Standardised recording of sediments** in the excavation of the Sabaeen town of Sirwah, Yemen. *Journal of Archaeological Science* 40(5): 2430–2445.
- Pietsch, D. (2013): Krotovinas – soil archives of steppe landscape history. *Catena* 104: 257–264
- Piperno, D. (2006): *Phytoliths: A Comprehensive Guide for Archaeologists and Paleoecologists*. Altamira Press, Lanham MD.
- Proudfoot, B. (1976): The analysis and interpretation of soil phosphorus in archaeological contexts. In: D.A. Davidson and M.L. Shackley (Eds.), *Geoarchaeology- Earth science and the past*. London: Duckworth, pp. 93–113.
- Pustovoytov, K. (2006): Soils and soil sediments at Goebekli Tepe, Southeastern Turkey: A preliminary Report. *Geoarchaeology* 21, No.7, 699–719.
- Pustovoytov, K., Deckers, K., Goldberg, P. (2011): Genesis, age and archaeological significance of a pedosediment in the depression around Tell Mozan, Syria. *Journal of Archaeological Science* 38: 913–924.
- Rapp, G. and Hill, C. L. (2006): *Geoarchaeology. The earth-science approach to archaeological interpretation*. New Haven/London.
- Reitz, E., Scarry, C.M., Scudder, S.J. (eds). (2008): *Case studies in environmental archaeology*. 2<sup>nd</sup> edition. Springer Science
- Retallack, G.J. (2001). *Soils of the Past. An introduction to paleopedology*. Blackwell Science press. 404 p.

Romans, C.C., Robertson, L. (1983): The general effects of early agriculture on the soil profile. In: Maxwell, G.S. (Ed.), The impact of aerial reconnaissance on archaeology. Council for British Archaeology, York, pp. 136–141 (= Council for British Archaeology, Research Report, 139).

Scheffer, F. and Meyer, B. (1958): Bodenkundliche Untersuchungen an neolithischen Siedlungsgruben des Göttinger Leinetalgrabens. Göttinger Jahrbuch, 3-19.

Scheffer, F. and Meyer, B. (1963): Berührungspunkte der archäologischen und bodenkundlichen Forschung. Neue Ausgrabungen und Funde in Niedersachsen, 1: 1-18.

Schiffer, M. B. (1972): **Archaeological Context and Systemic**. American Antiquity 37(2) 156-165.

Schiffer, M. B. (1983): Toward the identification of formation processes. American Antiquity 48:675-706.

Schleuß, U., Blume, H.-P. (1996): Ecology, classification and soil pattern of colluvial soils of the Bornhoeved Lake district (North-Germany). Zeitschrift für Pflanzenernährung und Bodenkunde 159: 23–29.

Scudder, S.J. (2001): Sea level rise or shallow-water midden deposition? Archaeopedology at the Seminole Rest archaeological site, coastal East-Central Florida. Journal of Archaeological Science 30: 1551–1557.

Scudder, S.J., Foss, J.E., Collins, M.E. (1996): **Soil Science and Archaeology**. Advances in Agronomy 57: 1–76.

Semmel, A. (1995): Bodenkundliche Hinweise auf Ackernutzung und intensive Bodenerosion um 8000 B.P. im Rhein-Main-Gebiet. Archäologisches Korrespondenzblatt 25: 157–163.

Semmel, A. (2000): Holozäne Klimaentwicklung im Spiegel der Böden. In: Bayrische Akademie der Wissenschaften (ed.): Entwicklung der Umwelt seit der letzten Eiszeit. Rundgespräche Kommission Ökologie 18: 129–137.

Simpson, I. (1997): Relict properties of anthropogenic deep top soils as indicators of infield management in Marwick, West Mainland, Orkney. Journal of Archaeological Science 24, 365–380.

Smolska, E. (2011): Relation between radiocarbon, archaeological dating and sediment properties on the example of colluvial deposits (NE Poland). Geochronometria 38(4): 325–333.

Stein, J.K. (1992): Organic matter in archaeological contexts. In: V.T. Holliday (Ed.). Soils in archaeology. Landscape evolution and human occupation. Washington and London: Smithsonian Institution Press, pp. 193–216.

Timpson, M.E., Foss, J.E. (1993): The use of particle size analysis as a tool in pedological investigations of archaeological sites. In: J.E. Foss, M.E. Timpson and M.W. Morris (Eds). Proceedings of the first international conference on Pedo-Archaeology, Special Publication 93-03. Knoxville: University of Tennessee Agricultural Experiment Station, pp. 69–80.

Tinnap, Ch., Meller, H., Baumhauer, R. (2008): Holocene accumulation of colluvial and alluvial sediments in the Weiße Elster River Valley in Saxony, Germany. *Archaeometry* 50(4): 696–709.

Walkington, H. (2010): **Soil science applications in archaeological contexts**: A review of key challenges. *Earth-Science Reviews* 103, 122–134.

Wilkinson, K.N. (2003): Colluvial deposits in dry valleys of Southern England as proxy indicators of paleoenvironmental and land-use change. *Geoarchaeology* 18(7): 725–755.

Wilson, C., Davidson, D., Cairns, D., Cowie, J., Blunn, M. 2010. **SASSA: and open source, Wiki soil based knowledge and decision support tool for archaeologists**. In: 19<sup>th</sup> World Congress of Soil Science, Soil Solutions for a Changing World, 1-6 August, Brisbane, Australia (DVD).