

Publications (up to December 1st, 2023)

1993

Behling, H., 1993. Untersuchungen zur spätpleistozänen und holozänen Vegetations- und Klimageschichte der tropischen Küstenwälder und der Araukarienwälder in Santa Catarina (Südbrasilien). *Dissertationes Botanicae* 206, J. Cramer, Berlin Stuttgart, 149pp.

1994

Ledru, M. P., Behling, H., Fournier, M., Martin, L. and Servant, M. 1994. Localisation de la forêt d'*Araucaria* du Brésil au cours de l'Holocène. Implications paléoclimatiques. *C. R. Acad. Sci. Paris*, 317, 517-521.

1995

Behling, H., 1995. A high resolution Holocene pollen record from Lago do Pires, SE Brazil: Vegetation, climate and fire history. *Journal of Paleolimnology*, 14: 253-268.

Behling, H., 1995. Investigations into the Late Pleistocene and Holocene history of vegetation and climate in Santa Catarina (S Brazil). *Vegetation History and Archaeobotany*, 4, 127-152.

Costa, M.L., Behling, H. and Moraes, E.L., 1995. Mineralogia e geoquímica dos sedimentos de fundo do lago Aquiri no Maranhão. III Workshop Ecolab. Programa de estudos de ecossistemas costeiros tropicais. Belém. 55-57pp.

1996

Behling, H., 1996. First report on new evidence for the occurrence of *Podocarpus* and possible human presence at the mouth of the Amazon during the Late-glacial. *Vegetation History and Archaeobotany*, 5 (3), 241-246.

Costa, M.L., Moraes, E.L., Behling, H., Melo, J.C.V., Siqueira, N.V.M., 1996. Natureza granulométrica, mineralógica e química dos sedimentos holocênicos do fundo da Baía de Caxiuanã (Pará). V. Simpósio de Geologia da Amazônia, pp. 238-241.

1997

Behling, H., 1997. Late Quaternary vegetation, climate and fire history from the tropical mountain region of Morro de Itapeva, SE Brazil. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 129 (3-4), 407-422.

Behling, H., 1997. Late Quaternary vegetation, climate and fire history in the *Araucaria* forest and campos region from Serra Campos Gerais (Paraná), S Brazil. *Review of Palaeobotany and Palynology*, 97, 109-121.

Behling, H. and Costa, M.L. da, 1997. Studies on Holocene tropical vegetation, mangrove and coast environments in the state of Maranhão, NE Brazil. *Quaternary of South America and Antarctic Peninsula*, 10 (7), 93-118.

Behling, H. and Lichte, M., 1997. Evidence of dry and cold climatic conditions at glacial times in tropical Southeastern Brazil. *Quaternary Research*, 48 (3), 348-358.

Behling, H., Negrelle R. R. B., Colinvaux, P. A., 1997. Modern pollen rain data from the tropical Atlantic rain forest, Reserva Volta Velha, South Brazil. *Review of Palaeobotany and Palynology*, 97, 287-299.

Costa, M.L., Moraes, E.L., Behling, H., Melo, J.C.V., Siqueira, N.V.M., 1997. Os sedimentos de fundo da Baía de Caxiuanã. In: Lisboa, P.L.B. (ed.), *Caxiuanã*, Museu Paraense Emílio Goeldi, Belém, pp. 121-137.

1998

- Behling, H., 1998. Late Quaternary vegetational and climatic changes in Brazil. *Review of Palaeobotany and Palynology*, 99 (2),143-156.
- Behling, H. and Hooghiemstra, H., 1998. Late Quaternary paleoecology and paleoclimatology from pollen records of the savannas of the Llanos Orientales in Colombia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 139, 251-267.
- Behling, H., Hooghiemstra, H. and Negret, A. J., 1998. Holocene Chocó rain forest history from Laguna Piusbi in the southern Colombian Pacific lowlands. *Quaternary Research*, 50: 300-308.
- Behling, H., Lichte, M. and Miklos, A. W., 1998. Evidence of a forest free landscape under dry and cold climatic conditions during the last glacial maximum in the Botucatu region (São Paulo State), Southeast Brazil. *Quaternary of South America and Antarctic Peninsula*, 11, 99-110.
- Behling, H., Negret, A.J. and Hooghiemstra, H., 1998. Late Quaternary vegetational and climatic change in the Popayán region, southern Colombian Andes. *Journal of Quaternary Sciences*, 13(1): 43-53.
- Hooghiemstra, H., Bonnefille, R. and Behling, H., 1998. Intertropical Last Glacial and Holocene climatic change (Preface). *Review of Palaeobotany and Palynology*, 99, 75-76.

1999

- Behling, H., 1999. Book review: *Flora Palinologica de Guerrero*. Ludlow-Wiechers, B. and H. Hooghiemstra, H. (Eds.). *Monographs in Systematic Botany from the Vascular Plants Laboratory, Facultad de Ciencias, UNAM, Mexico*. Published by Prensas de Ciencias, UNAM, Mexico, D.F., *Review of Palaeobotany and Palynology*, 107, 283.
- Behling, H., Berrio, J.C. and Hooghiemstra, H., 1999. Late Quaternary pollen records from the middle Caquetá river basin in central Colombian Amazon. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 145, 193-213.
- Behling, H. and Hooghiemstra, H., 1999. Environmental history of the Colombian savannas of the Llanos Orientales since the Last Glacial Maximum from lake records El Pinal and Carimagua. *Journal of Paleolimnology*, 21, 461-476.
- Behling, H. and Street, M., 1999. Palaeoecological studies at the Mesolithic site Bedburg-Königshoven near Cologne, Germany. *Vegetation History and Archaeobotany*, 8, 273-285.
- Lichte, M. and Behling, H., 1999. Dry and cold climatic conditions in the formation of the modern landscape in Southeastern Brazil. *Zeitschrift für Geomorphologie*, 43 (3), 341-358.

2000

- Behling, H., 2000. A 2860-year high resolution pollen and charcoal record from the Cordillera de Talamanca in Panama: a history of human and volcanic forest disturbance. *The Holocene*, 10, 387-393.
- Behling, H., 2000. Araukarienwälder Südbrasilien im Spätquartär. *Natur und Museum*, 130 (5),155-161.
- Behling, H., Arz, H. W., Pätzold, J. and Wefer, G., 2000. Late Quaternary vegetational and climate dynamics in northeastern Brazil, inferences from marine core GeoB 3104-1. *Quaternary Sciences Reviews*, 19, 981-994.
- Behling, H. and Costa, M.L., 2000. Holocene environmental changes from the Rio Curuá record in the Caxiuana region, eastern Amazon Basin. *Quaternary Research*, 53, 369-377.
- Behling, H. and Hooghiemstra, H., 2000. Holocene Amazon rain forest - savanna dynamics and climatic implications: high resolution pollen record Laguna Loma Linda in eastern Colombia. *Journal of Quaternary Sciences*, 15, 687-695.

- Berrio, J.C., Behling, H. and Hooghiemstra, H. 2000. Tropical rain forest history from the Colombian Pacific area: a 4200-yr pollen record from Laguna Jotaordó. *The Holocene*, 10, 749-756.
- Berrio, J.C., Hooghiemstra, H., Behling, H., 2000. Late Holocene history of savanna gallery forest from Carimagua area, Colombia. *Review of Palaeobotany and Palynology*, 111, 295-308.

2001

- Behling, H., 2001. Der Amazonas-Regenwald im Wandel der Zeit. *Naturwissenschaftliche Rundschau* 54 (3), 140-144.
- Behling, H., 2001. Late Quaternary environmental changes in the Lagoa da Curuca region (eastern Amazonia) and evidence of *Podocarpus* in the Amazon lowland. *Vegetation History and Archaeobotany*, 10, 175-183.
- Behling, H., Bauermann, S.G., and Neves, P.C., 2001. Holocene environmental changes from the São Francisco de Paula region, southern Brazil. *Journal of South American Earth Sciences*, 14, 631-639.
- Behling, H., Cohen, M.C.L., and R. J. Lara, R.J., 2001. Studies on Holocene mangrove ecosystem dynamics of the Bragança Peninsula in northeastern Pará, Brazil. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 167, 225-242.
- Behling, H., and Costa, M.L, 2001. Holocene vegetational and coastal environmental changes from the Lago Crispim record in northeastern Pará State, eastern Amazonia. *Review of Palaeobotany and Palynology*, 114, 145-155.
- Behling, H. and Hooghiemstra, H., 2001. Neotropical savanna environments in space and time: Late Quaternary interhemispheric comparisons. In: Markgraf, V. (ed.), *Interhemispheric Climate Linkages*, Academic Press, pp. 307-323.
- Behling, H., Keim, G., Irion, G., Junk, W. and Nunes de Mello, J., 2001. Holocene environmental changes inferred from Lago Calado in the Central Amazon Basin (Brazil). *Palaeogeography, Palaeoclimatology, Palaeoecology* 173, 87-101.
- Behling, H. and Negrelle R.R.B., 2001. Late Quaternary tropical rain forest and climate dynamics from the Atlantic lowland in southern Brazil. *Quaternary Research*, 56, 383-389.
- Bush, M. B, Stute, M., Ledru, M. P., Behling, H., Colinvaux, P. A., De Oliveira, P. E., Grimm, E. C., Hooghiemstra, H., Haberle, S., Leyden, B. W., Salgado-Labouriau, M. L. and Webb, R. 2001. Paleotemperature estimates for the lowland Americas between 30° S and 30° N at the last glacial maximum. In: Markgraf, V. (ed.), *Interhemispheric Climate Linkages*, Academic Press, pp. 293-306.
- Grimm, E.C, Lozano-García, S., Behling, H. and Markgraf, V. 2001. Holocene vegetation and climate variability in the Americas. In: Markgraf, V. (ed.), *Interhemispheric Climate Linkages*, Academic Press, pp. 325-370.
- Marchant, R., Behling, H., Berrio, J.C., Cleef, A.M., Duivenvoorden, J., Hooghiemstra, H., Kuhry, P., Melief, A.B.M., van Geel, B., van der Hammen, T., van Reenen, G. and Wille, M., 2001. Mid- to Late-Holocene pollen-based biome reconstructions for Colombia. *Quaternary Science Reviews*, 20, 1289-1308.
- Wille, M., Behling, H., Hooghiemstra H., van den Borg, K. and Negret, A.J. 2001. Environmental change in the Columbian subandean forest belt from 8 records: the last 50 kyr. *Vegetation History and Archaeobotany*, 10, 61-77.

2002

- Behling, H., 2002. South and Southeast Brazilian grasslands during Late Quaternary times: a synthesis. *Palaeogeography, Palaeoclimatology, Palaeoecology* 177, 19-27.
- Behling, H., 2002. Carbon storage increases by major forest ecosystems in tropical South America since the Last Glacial Maximum and the early Holocene. *Global and Planetary Change*, 33, 107-116.
- Behling, H., 2002. Beiträge zur Geschichte der Araukarienwälder, des Campos und der atlantischen Regenwälder Süd- und Südostbrasilens im Spätquartär. *Berichte der Reinhold-Tüxen-Gesellschaft*, 14, 59-68.
- Behling, H., 2002. Impact of Holocene sea-level changes in the coastal, eastern and central Amazonia. *Amazoniana*, 17, 41-52.
- Behling, H., 2002. Late Quaternary vegetation and climate dynamics in southeastern Amazonia interfered from Lagoa da Confusão in Tocantins State, northern Brazil. *Amazoniana*, 17, 27-39.
- Behling, H., Arz, H. W., Pätzold, J. and Wefer, G., 2002. Late Quaternary vegetational and climate dynamics in southeastern Brazil, inferences from marine core GeoB 3229-2 and GeoB 3202-1. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 179, 227-243.
- Berrio, J.C., Hooghiemstra, H., Behling, H., Botero, P. and Van der Borg, K., 2002. Late Quaternary savanna history of the Colombian Llanos Orientales from Lagunas Chenevo and Mozambique; a transect synthesis. *The Holocene*, 12, 35-48.
- Costa, M.L., Kern, D.C., Behling, H. and Borges, M. S., 2002. A geologia da região de Caxiuanã na Amazonia Oriental. In: Lisboa, P.L.B. (ed.), *Caxiuanã - Populações Tradicionais, Meio Físico & Diversidade Biológica*. Museu Paraense Emílio Goeldi, Belém-Pará, pp. 179-205.
- Marchant, R., Almeida, L., Behling, H., Berrio, J.C., Bush, M., Cleef, A., Duivenvoorden, J., Kappelle, M., De Oliveira, P.E., De Oliveira-Filho, A.T., Lozano-Garcia, M.S., Hooghiemstra, H., Ledru, M-P., Ludlow-Wiechers, B., Mancini, V., Markgraf, V., Paez, M., Prieto, A., Rangel, O. and Salgado-Labouriau, M.L., 2002. Distribution and ecology of parent taxa of pollen lodged within the Latin American Pollen Database. *Review of Palaeobotany and Palynology*, 121, 1-75.
- Marchant, R.A., Behling, H., Berrio, J.C., Cleef, A., Duivenvoorden, J., van Geel, B., van der Hammen, T., Hooghiemstra, H., Kuhry, P., Melief, B., Schreve-Brinkman, E., van Reenen, G. and Wille, M., 2002. Pollen-based biome reconstructions for Colombia at 3000, 6000, 9000, 12 000, 15 000 and 18 000 14C yr ago: Late Quaternary tropical vegetation dynamics. *Journal of Quaternary Science*, 17, 113-129.
- Orlóci, L., Pillar, V.D., Behling, H. and Anand, M., 2002. Some interesting characteristics of the vegetation process. *Community Ecology*, 3(2), 125-146.
- Rodrigues-Filho, S., Behling, H., Irion, G. and Müller, G., 2002. Evidence for lake formation as a response to an inferred Holocene climatic transition in Brazil. *Quaternary Research*, 57, 1-7.

2003

- Bauermann, S.G., Marques-Toigo, M., Behling, H. And Alves de Souza, P., 2003. Análises palinológicas da turfeira de Águas Claras, Planície, Costeira do Rio Grande do Sul, Brasil. IX Congresso da Associação Brasileira de Estudos do Quaternário, Recife. Proceedings, 3p.
- Behling, H., 2003. Late Quaternary vegetation, climate and fire history inferred from Lagoa Nova in the southeastern Brazilian lowland. *Vegetation History and Archaeobotany*, 12, 263-270.

- Behling, H., 2003. Untersuchungen zur holozänen Vegetations- und Siedlungsgeschichte auf der Verdener Geest bei Hellwege, Landkreis Rotenburg/Wümme (Nordwestdeutschland). *Abhandlungen des Naturwissenschaftlichen Verein zu Bremen*, 45 (2), 591-503.
- Behling, H., 2003. Beiträge zur nacheiszeitlichen Siedlungsgeschichte in der Umgebung des Breitenfelder Moores bei Hellwege, Landkreis Rotenburg/Wümme. *Archäologische Berichte des Landkreises Rotenburg (Wümme)*, 10, 21-30.
- Behling, H., 2003. Dinâmica vegetacional no Quaternário Superior no Brasil, com ênfase no Brasil Meridional. In: Claudino-Sales, V. (Org.) *Ecosystemas Brasileiros: Menejo e Conservação*. Expressão Gráfica, Fortaleza. pp. 203-208.
- Wille, M., Hooghiemstra H., van Geel, B., Behling, H., de Jong, A. de and van der Borg, K., 2003. Submillenim-scale migrations of the n rainforest-savanna boundary in Columbia: ¹⁴C wiggle-matching and pollen analysis of core Las Margaritas. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 193, 201-223.

2004

- Behling, H., Cohen, M.C.L., and R. J. Lara, R.J., 2004. Late Holocene mangrove dynamics of the Marajó Island in Amazonia, northern Brazil. *Vegetation History and Archaeobotany*, 13, 73-80.
- Behling, H. and Costa, M.L., 2004. Mineralogy, geochemistry and palynology of late Tertiary mangrove deposits in the Barreiras Formation of Mosqueiro Island in northeastern Pará State, eastern Amazonia. *Journal of South American Earth Sciences*, 17, 285-295.
- Behling, H., Pillar, V. Orlóci, L. and Bauermann, S.G., 2004. Late Quaternary *Araucaria* forest, grassland (Campos), fire and climate dynamics, studied by high resolution pollen, charcoal and multivariate analysis of the Cambará do Sul core in southern Brazil. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 203, 277-297.
- Costa, M. L., Behling, H., Berrêdo J. F., Carmo, M.S. and Siqueira, N. V. M., 2004. Mineralogical, geochemical and palynological studies of late Holocene mangrove sediments from northeastern Pará State, Brazil. *Revista Brasileira de Geociências*, 34, 479-488.
- Jennerjahn, T.C., Ittekkot, V., Arz, H.W., Behling, H., Pätzold, J. and Wefer, G. 2004. Asynchronous terrestrial and marine signals of climate change during Heinrich Events. *Science*, 306, 2236-2239.
- Marchant, R.A., Behling, Berrio, J.C., Hooghiemstra, H., van Geel, B, van der Hammen, T., Herrera, L., Melief, B.M., van Reenen, G. and Wille, M., 2004. Vegetation disturbance and human population in Colombia – a regional reconstruction. *A Quarterly Review of Archaeology*, 78, 828-838.
- Marchant, R.A., Boom, A., Behling, Hooghiemstra, H., van Geel, B, van der Hammen, T., Melief, B.M., and Wille, M., 2004. Colombian vegetation at the Last Glacial Maximum: a comparison of model- and pollen-based biome reconstructions. *Journal of Quaternary Science*, 19, 721-732.
- Mittman, M., Enters, D., Behling, H., Zolitschka, B. & Gehling, C. Heinrichs, S. Junge, A., Kappel, A. and Kedding, N., 2004. Pollenanalytische und sedimentologische Untersuchungen zur Vegetations- und Siedlungsgeschichte am Eversener See Ldkr. Rotenburg (Wümme), Niedersachsen, *Archäologische Berichte des Landkreises Rotenburg (Wümme)*, 11, 37-63.
- Wooller, M., Behling, H., Smallwood, B. and Fogel, M. 2004. Mangrove ecosystem dynamics and elemental cycling at Twin Cays, Belize during the Holocene. *Journal of Quaternary Sciences*, 19, 703-711.

2005

- Behling, H. Pillar, V. and Bauermann, S.G., 2005. Late Quaternary grassland (Campos), gallery forest, fire and climate dynamics, studied by pollen, charcoal and multivariate analysis of the São Francisco de Assis core in western Rio Grande do Sul (southern Brazil). *Review of Palaeobotany and Palynology*, 133, 235-248.
- Cohen, M.C.L, Behling, H. and Lara, R.J. 2005. Amazonian mangrove dynamics during the last millennium: The relative sea-level and the Little Ice Age. *Review of Palaeobotany and Palynology*, 136, 93-108.
- Cohen, M.C.L, Souza Filho, P.W, Lara, R. J., Behling, H. Angulo R., 2005. A model of Holocene mangrove development and relative sea-level changes on the Bragança Peninsula (Northern Brazil). *Wetlands Ecology and Management*, 13, 433-443.
- Costa, M.L., Carmo, M.S. and Behling, H. 2005. Mineralogia e geoquímica de sedimentos lacustres com substrato laterítico na Amazônia Brasileira. *Revista Brasileira de Geociências*, 35, 165-176.
- De Oliveira, P.E., Behling, H., Ledru, M.-P., Barberi, M., Bush, M., Salgado-Labouriau, M.L., Garcia, Medeanic, S., Barth, M., Barros, M. A. De and Scheel-Ybert, R., 2005. Paleovegetação e Paleoclimas do Quaternário do Brasil. In: Gouveia Souza C.R. de, Suguio, K., Santos Oliveira, A.M. dos, and Oliveira, P.E. de. (eds.) *O Quaternário do Brasil*, pp. 52-74.
- Eva, H.D. and Huber, O., (eds) with contributions from F. Achard, H. Balslev, S. Beck, H. Behling, A.S. Belward, R. Beuchle, A. Cleef, M. Colchester, J. Duivenvoorden, M. Hoogmoed, W. Junk, P. Kabat, B. Kruijt, Y. Mahli, J.M. Müller, J.M. Pereira, C. Peres, G.T. Prance, J. Roberts and J. Salo, 2005. A proposal for defining the geographical boundaries of Amazonia. Luxembourg: Office for Official Publications of the European Communities, 38 pp.
- Kappel, A., Behling, H. and Zolitschka, B. 2005. Rekonstruktion spät- und postglazialer Umweltbedingungen an einem Sedimentprofil aus dem Varreler Schlatt im (Landkreis Diepholz, Nordwestdeutschland). *Telma*, 35, 33-60.
- Kim, J., Dupont, L., Behling, H. and Versteegh, G. J.M. 2005 Impacts of rapid sea level rise on mangrove deposit erosion: Application of taraxerol and *Rhizophora* records. *Journal of Quaternary Sciences*, 20, 221-225.
- Marchant, R.A. and Behling, H., 2005. Late Quaternary tropical ecosystem dynamics. *Quaternary Research*, 64, 283.

2006

- Anhuf, D., Ledru, M-P., Behling, H., Da Cruz Jr., F.W., Cordeiro, R.C., Van der Hammen, T., Karmann, I., Marengo, J.A., De Oliveira, P.E., Pessenda, L., Siffedine, A., Da Silva Dias, P.L., 2006. Paleo-Environmental Change in Amazonian and African Rainforest during the LGM. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 239, 510-527.
- Behling, H. and Negrelle, R.R.B., 2006. Vegetation and pollen rain relationship from the tropical Atlantic rain forest in southern Brazil. *Brazilian Archives of Biology and Technology*, 49, 631-642.
- Dupont, L. and Behling, H. 2006. Land-sea linkages during deglaciation: high resolution records from the eastern Atlantic off the coast of Namibia and Angola (ODP Site 1078). *Quaternary International*, 148, 19-28.
- Marchant R., Berrio, J.C., Behling, H., Boom, A. and Hooghiemstra, H., 2006. Colombian dry moist forest transitions in the Llanos Orientales—A comparison of model and pollen-based biome reconstructions. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 234, 28-44.

- Vedel, V., Behling, H., Cohen, M.C.L. and Lara, R.J., 2006. Early Holocene mangrove dynamics and sea-level changes in northern Brazil, inferences from the Taperebal core in northeastern Pará State. *Vegetation History and Archaeobotany*, 15, 115-123.
- Souza Filho, P.W.M., Cohen, M.C.L., Lara, R.J., Lessa, G.C., Koch, B. and Behling, H., 2006. Late Quaternary coastal evolution and facies model of the Bragança macrotidal flat on the Amazon Mangrove Coast, Northern Brazil. *Journal of Coastal Research* 39, 306-310.

2007

- Behling, H., 2007. Postglacial Pollen Records of South America. In Elias, S.A., *Encyclopedia of Quaternary Science*, 2745 – 2752 pp.
- Behling, H., 2007. Regenwälder und Savannen Südamerikas im Wandel der Zeit. *Bremer Geographische Blätter* 5, 39-46.
- Behling, H. 2007. Late Quaternary vegetation, fire and climate dynamics of Serra do Araçatuba in the Atlantic coastal mountains of Paraná State, southern Brazil. *Vegetation History and Archaeobotany*, 16, 77-85.
- Behling, H., Dupont, L., Safford, H.D., Wefer, G. 2007. Late Quaternary vegetation and climate dynamics in the Serra da Bocaina, southeastern Brazil. *Quaternary International*, 161, 22-31.
- Behling, H., and Pillar, V. 2007. Late Quaternary vegetation, biodiversity and fire dynamics on the southern Brazilian highland and their implication for conservation and management of modern *Araucaria* forest and grassland ecosystems. *Philosophical Transactions of the Royal Society of London Series B Biological Sciences*, 362, 243-251.
- Behling, H., Pillar, V., Müller, S. and Overbeck, G. 2007. Late-Holocene fire history in a forest-grassland mosaic in southern Brazil: Implications for conservation. *Journal of Applied Vegetation Science*, 10, 81-90.
- Dupont, L., Behling, H., Jahns, S., Marret, F., Kim, J.-H. and Ning, S., 2007. Vegetation changes in west southern Africa during the last deglaciation and the Holocene as deduced from marine pollen records. *Vegetation History and Archaeobotany*, 16, 87-100.
- Iriarte, J. and Behling, H. 2007. The expansion of *Araucaria* forest in the southern Brazilian highlands during the last 4000 years and its implications for the development of the Taquara/Itararé. *Environmental Archaeology*, 12, 115-127.
- Jahns, S., Dupont, L.M., Behling, H., Bittmann, F. and Schlütz, F. 2007. A thankful tribute to Hans-Jürgen Beug on the occasion of his 75th birthday. *Vegetation History and Archaeobotany*, 16, 73-75.
- Pedentchouk, N., Wagner, T., Jones, M., Pellegrini, M., Brugnoli, E., Lauteri, M., Pollegioni, P. and Behling, H. 2007. Comparison of delta C-13 delta D values of n-alkanes from angiosperms and gymnosperms in Western Europe. *Geochimica et Cosmochimica Acta*, 71, 770.
- Wooller, M., Morgan, R., Fowell, S., Behling, H., and Fogel, M. 2007. A multi-proxy peat record of Holocene mangrove paleoecology from Twin Cays, Belize. *The Holocene*, 17, 1129-1139.

2008

- Bauermann, S.G., Macedo, R.B., Behling, H., Pillar, V., Neves, P.C.P.D. 2008. Dinâmicas vegetacionais, climáticas e do fogo com base em palinologia e análise multivariada no Quaternário tardio do Sul do Brasil. *Revista Brasileira de Paleontologia*, 11, 87-96.
- Behling, H. 2008. Tropical Mountain Forest dynamics in the Mata Atlantica and northern Andean biodiversity hotspot during the late Quaternary. *Biodiversity and Ecology Series*, 2, 26-34.
- Behling, H., and Pillar, V. 2008. Vegetation and fire dynamics in southern Brazil during the late Quaternary and their Implication for conservation and management of modern grassland ecosystems. In Schröder, H.G. (ed) *Grasslands: Ecology, Management and Restoration*. Nova Science Publishers, 181-194 pp.
- Dupont, L., Behling, H. and Kim, J.-H., 2008. Thirty thousand years of vegetation development and climate change in Angola (Ocean Drilling Program Site 1078). *Climate of the Past*, 4, 111-147.
- Gonzales, C.A., Dupont, L., Behling, H. Wefer, G., 2008. Neotropical vegetation response to rapid climate changes during the last glacial: palynological evidence from the Cariaco Basin. *Quaternary Research*, 69, 217-230.
- González-Carranza, Z., Berrío, J.C., Hooghiemstra, H., Duivenvoorden, J.F. and Behling, H. 2008. Changes of seasonally dry forest in the Colombian Patía Valley during the early and middle Holocene and the development of a dry climatic record for the northernmost Andes. *Review of Palaeobotany and Palynology*, 152, 1-10.
- Muller, J. Kylander, M., Wüst, R.A.J, Weiss, D., Martinez-Cortizas A., LeGrande, A.N., Jennerjahn, T., Behling, H. Anderson, W.T. and Jacobson G. 2008. Possible evidence for wet Heinrich phases in tropical NE Australia: The Lynch's Crater deposit. *Quaternary Science Reviews*, 27, 468-475.
- Niemann, H. and Behling, H. 2008. Late Quaternary vegetation, climate and fire dynamics inferred from the El Tiro record in the southeastern Ecuadorian Andes. *Journal of Quaternary Sciences*, 3, 203-212.
- Niemann, H. and Behling, H., 2008. Past vegetation and fire dynamics. *Ecological Studies*, 198,101-111.
- Oliveira, M.A.T., Behling, H. and Pessenda, L.C.R., 2008. Late-Pleistocene and mid- Holocene environmental changes in highland valley head areas of Santa Catarina State, Southern Brazil. *Journal of South American Earth Sciences*, 26, 55-67.
- Oliveira, M.A.T., Behling, H. and Pessenda, L.C.R., Leite de Lima, G. 2008. Stratigraphy of near-valley head quaternary deposits and evidence of climate-driven slope-channel processes in southern Brazilian highlands. *Catena*, 75, 77-92.
- Power, M.J., Marlon, J., Ortiz, N., Bartlein, P.J., Harrison, S.P., Mayle, F.E., Ballouche, A., Bradshaw, R.H.W., Carcaillet, C., Cordova, C., Mooney, S., Moreno, P.I., Prentice, I.C., Thonicke, K., Tinner, W., Whitlock, C., Zhang, Y., Zhao, Y., Ali, A.A., Anderson, R.S., Beer, R., Behling, H., Briles, C., Brown, K.J., Brunelle A, Bush, M., Camill, P., Chu, G.Q., Clark, J., Colombaroli, D., Connor, S., , Daniau, A.-L., Daniels, M., Dodson, J., Doughty, E., Edwards, M.E., Finsinger, W., Foster, D., Frechette J., Gaillard, M.-J., Gavin, D.G., Gobet, E., Haberle, S., Hallett, D.J., Higuera, P., Hope, G., Horn, S., , Inoue, J., Kaltenrieder, P., Kennedy, L., Kong, Z.C., Larsen, C., Long, C.J., Lynch, J., Lynch, E.A., McGlone, M., Meeks, S., Mensing, S., Meyer, G., Minckley, T., Mohr, J, Nelson, D.M., New, J., Newnham, R., Noti, R., Oswald, W., Pierce, J., Richard, P.J.H., Rowe, C., Sanchez Goñi, M.F., Shuman, B.J., Takahara, H., Toney, J., Turney, C., Urrego-Sanchez, D.H., Umbanhowar, C., Vandergoes, M., Vanniere, B., Vescovi, E., Walsh, M., Wang, X., Williams, N., Wilmshurst, J., Zhang, J.H. 2008. Changes in fire regimes since the Last

Glacial Maximum: an assessment based on a global synthesis and analysis of charcoal data. *Climate Dynamics*, 30, 887-907.

Stefenon, V.M., Behling, H., Gailing, O. and Finkeldey, R. 2008. Evidences of delayed size recovery in *Araucaria angustifolia* populations after post-glacial colonization of highlands in Southeastern Brazil. *Annals of the Brazilian Academy of Sciences*, 80, 433-443.

2009

Bauermann, S.G. and Behling, H. 2009. Dinâmicas vegetacional da floresta com Araucária a partir do final do Pleistoceno: o que mostra a palinologia. In: Fonseca, C.R., Souza, A.F., Leal-Zanchet A.M., Dutra, T., Backes, A., Ganado, G. (Eds.) *Floresta com Araucária, ecologia, conservação e desenvolvimento sustentável*. pp 35-38.

Bauermann, S.G., Behling, H. Macedo, R.B. 2009. In: Ribeiro A.M., Bauermann, S.G., Scherer, C.S. (Eds). *Quaternário do Rio Grande do Sul: integrando conhecimentos*. pp.81-93.

Behling H., Jeske-Pieruschka, V. and Schüler, L. 2009. Dinâmica dos campos no sul do Brasil durante o Quaternário tardio, p. 13-25. In Pillar, V., Müller, S.C., Souza Castilhos, de Z.M., Jacques, A.V.Á. (eds). *Campos Sulinos – conservação e uso sustentável da biodiversidade*. Ministério do Meio Ambiente, Brasília/DF, 403pp.

Brunschön, C. and Behling, H. 2009. Late Quaternary vegetation, fire and climate history reconstructed from two cores at Cerro Toledo, Podocarpus National Park, southeastern Ecuadorian Andes. *Quaternary Research*, 72, 388-399.

Cohen, M.C.L., Guimarães, J.T.F., França, M. Lara, R.J., and Behling, H. 2009. Tannin as an indicator of paleomangrove in sediment cores from Amapá. Northern Brazil. *Wetlands Ecology and Management*, 17, 145-155.

Cohen, M.C.L., Behling, H., Lara, R.J. Smith, C.B., Matos, R.H., Vedel, V. 2009. Impact of sea-level and climatic changes on the Amazon coastal wetlands during the late Holocene. *Vegetation History and Archaeobotany*, 18, 425-439.

Costa, M.L., Behling, H., Suguio, K., Kaempfer, N. and Kern, D.C. 2009. Paisagens Amazônicas sob a Ocupação do Homem Pré-Histórico: Uma Visão Geológica, In Teixeira, W., Madari, B., Bentes, V.M., Dirse C. Kern, D.C., Falcão, N. (eds). *As Terras Pretas de Indio - Caracterização e Manejo Para Formação de Novas Áreas*. Organizadores: Embrapa Amazonia Ocidental, Manaus-AM. pp. 15-38.

Hait, A., Behling, H. 2009. Holocene mangrove and coastal environmental changes in the western Ganga Brahmaputra Delta, India. *Vegetation History and Archaeobotany*, 18, 159-169.

Marchant, R., Harrison, S.P., Hooghiemstra, H., Markgraf, V., van Boxel, J.H., Ager, T., Almeida, L., Anderson, R., Baied, C. Behling, H., Burbridge, R., Björck, S., Byrne, R. Bush, M.B., Cleef, A.M., Duivenvoorden, J.F., Flenley, J.R., De Oliveira, P.E., van Geel, B., Graf, K.J., Gosling, W.D., Haberle, S., van der Hammen, T., Hansen, B.C.S., Horn, S.P., Islebe, G.A., Kuhry, P., Ledru, M-P., Mayle, F.E., Leyden, B.W., Lozano-García, S., Melief, A.B.M., Moreno, P., Morar, N.T., Prieto, A., van Reenen, G.B., Salgado-Labouriau, M.L., Schäbitz, F., Schreve-Brinkman, E.J. and Wille, M., 2009. Pollen-based biome reconstructions for Latin America at 0, 6000, 18,000 radiocarbon years. *Climate of the Past*, 5, 1–43.

Monacci, N.M., Meier-Grünhagen, U., Finney, B.P., Behling, H. and Wooller, M.J., 2009. Mangrove ecosystem changes during the Holocene at Spanish Lookout Cay, Belize at Spanish Lookout Cay, Belize. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 280, 37-46.

Niemann, H. and Behling, H. 2009. Late Pleistocene and Holocene environmental change inferred from the Cocha Caranga sediment and soil records in the southeastern Ecuadorian Andes. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 276, 1-14.

- Niemann, H., Haberzettl, T. and Behling, H., 2009. Holocene climate variability and vegetation dynamics from the (11700 cal. yr BP) Laguna Rabadilla de Vaca sediment record, southeastern Ecuadorian Andes. *The Holocene*, 19, 307-316.
- Wooller, M.J., Behling, H., Guerrero, J.L., Jantz, N. and Zweigert, M.E. 2009. Holocene hydrologic and vegetation changes at Turneffe Atoll, Belize, compared with records from mainland Central America and Mexico. *Palaios*, 24, 650-656.

2010

- Behling, H., Bush, M.B. and Hooghiemstra, H. 2010. Biotic development of Quaternary Amazonia: a playnological perspective. In C. Hoorn and F.P. Wesselingh (eds). *Amazonia, Landscape and Species Evolution*, 1st edition, Blackwell, 335-345pp.
- Behling, H., Cohen, M.C.L. and Lara, R.J., Vedel, V., 2010. Reaction of vegetation structure to past oscillations in climate, relative sea-level, and flooding frequency. In: Saint-Paul, U., Schneider, H. (Eds.): *Mangrove Dynamics and Management in North Brazil*. Ecological Studies 211, 35-44.
- Behling, H., and Safford, H.D. 2010. Late-glacial and Holocene vegetation, climate and fire dynamics in the Serra dos Orgãos Mountains of Rio de Janeiro State, southeastern Brazil. *Global Change Biology*, 16, 1661-1671.
- Bendix, J. Behling, H., Peters, T., Richter, M., and Beck, E. 2010. Functional biodiversity and climate change along an altitudinal gradient in a tropical mountain rainforest. In: Tschardtke, T.; Leuschner, C.; Veldkamp, E.; Faust, H.; Guhardja, E. & A., Bidin (Eds.): *Tropical rainforests and agroforests under global change*. Environmental Science and Engineering, pp. 239-268.
- Brunschön, C., Haberzettl, T. and Behling, H. 2010. High-resolution studies on vegetation succession, hydrological variations, anthropogenic impact and genesis of a subrecent lake in southern Ecuador. *Vegetation History and Archaeobotany*, 19, 191-206.
- Brunschön, C. and Behling, H. 2010. Reconstruction and visualization of upper forest line and vegetation changes in the Andean depression region of southeastern Ecuador since the last glacial maximum - a multi-site synthesis. *Review of Palaeobotany and Palynology*, 163 139-152.
- Dupont, L.M., Schlütz, F., Ewah, C.T., Jennerjahn, T.C., Paul, A. and Behling, H. 2010. Two-step vegetation response to enhanced precipitation in Northeast Brazil during Heinrich Event 1. *Global Change Biology*, 16, 1647-1660.
- Enters, D., Behling, H., Mayr, C., Dupont, L. and Zolitschka, B. 2010. Holocene environmental dynamics of south-eastern Brazil recorded in laminated sediments of Lago Aleixo. *Journal of Paleolimnology*, 44, 265-277.
- Guimaraes, J.T.F., Cohen, M.C.L., Franca, M.C., Lara, R.J. Behling, H., 2010 Model of Wetland development of the Amapá coast during the late Holocene. *Anais Brasileira de Ciencias*, 82, 1-15.
- Haberle, S.G., Behling, H., Dupont, L., and Kirleis, W. 2010. Introduction: Tropical palaeoecology and global change. *Global Change Biology*, 16, 1645-1646.
- Hessler, I., Dupont, L., Bonnefille, R. Behling, H., González, C., Helmens, K.F. Hooghiemstra, H., Lebamba, J., Ledru, M-P., Lézine, A-M., Maley, J., Marret, F. Vincens, A. 2010. Millennial-scale changes in vegetation records from tropical Africa and South America during the last glacial. *Quaternary Science Reviews*, 29, 2882-2899.
- Jeske-Pieruschka, V., Fidelis, A., Bergamin, R.S., Vélez, E. and Behling H. 2010. *Araucaria* forest dynamics in relation to fire frequency in southern Brazil based on fossil and modern pollen data. *Review of Palaeobotany and Palynology*, 160, 53-60.

- Niemann, H. and Behling, H. 2010. Late Holocene environmental change and human impact inferred from three soil monoliths and the Laguna Zurita multi-proxi record in the southeastern Ecuadorian Andes. *Vegetation History and Archaeobotany*, 19, 1-15.
- Niemann, H., Brunschön, C. and Behling, H. 2010. Vegetation/modern pollen rain relationship along an altitudinal transect between 1920 and 3185 m a.s.l. in the Podocarpus National Park region, southeastern Ecuadorian Andes. *Review of Palaeobotany and Palynology*, 159, 68-80.
- Power, M.J., Bush, M.B., Behling, H., Horn, S., Mayle, F.E. Urrego, D.H. 2010. Palaeofire activity in tropical America during the last 21,000 years: A regional synthesis based on sedimentary charcoal. *PAGES Newsletter*, 18, 73-75.
- Proske, U., Hanebuth, T.J.J., Behling, H., Reinecke, A., Van Lap, N., Diêm, B.P. 2010. The north-eastern Mekong River Delta since the mid-Holocene: Palaeoecological history and implications for prehistoric settlements. *The Holocene*, 20, 1257-1268.

2011

- Behling, H. 2011. Holocene environmental dynamics in coastal, eastern and central Amazonia and the role of the Atlantic sea-level change. *Geographica Helvettica*, 3, 208-216.
- Bauermann, S.G, Behling, H., Pillar, V. 2011. Paleoambientes do cone Sul da América do Sul. *Ciência and Ambiente*, 42, 5-14.
- Gessert, S., Iriarte, J., Ríos, R.C., and Behling, H. 2011. Late Holocene vegetation and environmental dynamics of the Araucaria forest region in Misiones Province, NE Argentina. *Review of Palaeobotany and Palynology*, 166, 29-37.
- Horbe, A.M.C., Behling, H., Nogueira, A.C.R. and Mapes, R. 2011. Environmental changes in the western Amazônia: morphological framework, geochemistry, palynology and radiocarbon dating data. *Annals of the Brazilian Academy of Sciences*, 83, 863-874.
- Koch, B.P., Souza Filho, P.W.M., Behling, H., Cohen, M.C.L, Kattner, G., Rullkötter, J. Scholz-Böttcher, B., Lara, R.J., 2011. Triterpenols in mangrove sediments as a proxy for organic matter derived from the red mangrove (*Rhizophora mangle*). *Organic Geochemistry*, 42, 62-73.
- Monacci, N.M., Meier-Grünhagen, U., Finney, B.P., Behling, H., Wooller, M.J. 2011. Paleocological changes of a mangrove ecosystem during the Holocene along the Sibun River, Belize. *Quaternary Research*, 76, 220-228.
- Kirleis, W., Pillar, V., Behling, H. 2011. Human-environment interaction in mountain rainforests: palaeo-botanical evidence from Central Sulawesi, Indonesia. *Vegetation History and Archaeobotany*, 20, 165-179.
- Rodríguez, F., Behling, H. 2011. Late Holocene vegetation, fire, climate and upper forest line dynamics in the Podocarpus National Park, southeastern Ecuador. *Vegetation History and Archaeobotany*, 20, 1-14.
- Schüler, L., Behling, H. 2011. Poaceae pollen grain size as a tool to distinguish past grasslands in South America – a new methodological approach. *Vegetation History and Archaeobotany*, 20, 83-96
- Schüler, L., Behling, H. 2011. Characteristics of Poaceae pollen as a tool to assess palaeoecological grassland dynamics in South America. *Vegetation History and Archaeobotany*, 20, 97-108.

2012

- Cohen, M.C.L., Pessenda, L.C.R., Behling, H., Rossetti, D. De F., França, M.C., Guimaraes, J.T.F., Beltrão Smith, C. 2012. Holocene palaeoenvironmental history of the Amazonian mangrove belt. *Quaternary Science Reviews* 55, 50-58.
- Daniau A.-L., Bartlein, P.J., Harrison, S.P., Prentice, I.C., Brewer, S., Friedlingstein, P., Harrison-Prentice, T.I., Inoue, J.R., Izumi, K., Marlon, J.R., Mooney, S., Power, M.J., Stevenson, J., Tinner, W., Andric, M., Atanassova, J., Behling, H., Brown, K.J., Carcaillet, C., Colhoun, E.A., Colombaroli, D., Davis, B.A.S., D'Costa, D., Dodson, J., Dupont, L., Eshetu, Z., Gavin, D.G., Genries, A., Haberle, S., Hallett, D.J., Horn S.P., Hope, G., Kassa, T.G., Katamura, F., Kennedy, L.M., Kershaw, P., Krivonogov, S., Long, C., Magri, D., Marinova, E., McKenzie, G.M., Moreno, P.I., Moss, P., Neumann, F.H., Norstrom, E., Paitre, C., Rius, D., Roberts, N., Robinson, G.S., Sasaki, N., Scott, L., Takahara, H., Terwilliger, V., Thevenon, F., Turner, B., Valsecchi, V.G., Vannièrè, B., Walsh, M., Williams, N., Zhang, Z., 2012. Predictability of biomass burning in response to climate changes. *Global Biogeochemical Cycles*, 26, GB4007, doi:10.1029/2011GB004249
- Haberzettl, T., St-Onge, G., H. Behling, H., Kirleis, W. 2012. Evaluating late Holocene radiocarbon-based chronologies by matching paleomagnetic secular variations to geomagnetic field models - an example from Lake Kalimpa (Sulawesi, Indonesia). *Geological Society, London, Special Publications*, V.373, first published online August 14, 2012, <http://dx.doi.org/10.1144/SP373.10>
- Hermanowski, B., Costa, M., Behling, H. 2012. Environmental changes in southeastern Amazonia during the last 25,000 years revealed from a paleoecological record. *Quaternary Research*, 77, 138-148.
- Hermanowski, B., Costa, M., Carvalho, A.T., Behling, H. 2012. New insights into palaeoenvironmental dynamics in Serra Sul dos Carajás (Pará, Brazil) during the late Pleistocene and Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 365–366 227-246.
- Jantz, N. and Behling, H. 2012. A Holocene environmental record reflecting vegetation, climate, and fire variability at the Páramo of Quimsacocha, southwestern Ecuadorian Andes. *Vegetation History and Archaeobotany*, 21, 169-185.
- Jeske-Pieruschka, V. and Behling, H. 2012. Palaeoenvironmental history of the São Francisco de Paula region in southern Brazil during the late Quaternary inferred from the Rincão das Cabritas core. *The Holocene*, 22, 1251-1562.
- Kirleis, W., Müller, J., Kortemeier, C., Behling, H. and Soegondho, S. 2012. Chapter 16: The megalithic landscape of central Sulawesi, Indonesia. Combining archaeological and palynological investigations. Dominik Bonatz, Andreas Reinecke, Mai Lin Tjoa-Bonatz (eds.): *Crossing Borders in Southeast Asian Archaeology. Selected papers from the 13th International Conference of the European Association of Southeast Asian Archaeologists*, Berlin, 2010. 2 vol. Singapore, NUS Press, 199-220.
- Oliveira, M.A.T., Porsani, J.L., Lima, G.L., Jeske-Pieruschka, V. and Behling, H. 2012. Late Pleistocene to Holocene peatland evolution in southern Brazilian highlands as depicted by radar stratigraphy, sedimentology and palynology. *Quaternary Research*, 77, 397-407
- Pereira, N.P., Safford, H.D., and Behling, H. 2012. Holocene vegetation and fire history of the Serra do Caparaó, SE Brazil. *The Holocene*, 22, 1243-1250.
- Rodríguez, F., Behling, H., 2012. Late Quaternary vegetation, climate and fire dynamics, and evidence of early to mid-Holocene *Polylepis* forests in the Jimbura region of the southernmost Ecuadorian Andes. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 350-352, 247-257.

- Schüler, L., Hemp, A., Zech, W., Behling, H. 2012. Late Quaternary vegetation, climate and fire-dynamics in East Africa inferred from the pollen record from Mt Kilimanjaro spanning the early last Glacial. *Quaternary Science Reviews*, 39, 1-13.
- Shumilovskikh, L., Tarasov, P., Arz, H.W., Fleitmann, D., Marret, F., Nowaczyk, N., Plessen, B., Schlütz, F., Behling, H., 2012. Vegetation and environmental dynamics in the southern Black Sea region since 18 kyr BP derived from the marine core 22-GC3. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 337-338, 177–193.
- Villota, A., León-Yáñez, S., Behling H., 2012. Vegetation and environmental dynamics in the Páramo of Jimbura region in southeastern Ecuadorian Andes, during the late Quaternary. *Journal of South American Earth Sciences*, 40, 85-93.

2013

- Behling, H., 2013. South America. In Elias, S.A. (ed.), *The Encyclopedia of Quaternary Science*, Amsterdam, Elsevier, 2nd edition, Vol. 4. Pp. 156-163.
- Guimaraes, J.T.F., Cohen, M.C.L., Franca, M.C., Alves, I.C.C., Beltrão Smith, C., Pessenda, L.C.R.; Behling, H. 2013. An integrated approach to relate Holocene climatic, hydrological, morphological and vegetation changes in the southeastern Amazon region. *Vegetation History and Archaeobotany*, 22, 185-198.
- Guimaraes, J.T.F., Cohen, M.C.L., Franca, M.C., Pessenda, L.C.R.; Behling, H., 2013. Morphological and vegetation changes on tidal flats of the Amazon Coast during the last 5000 cal. yr BP. *The Holocene*, 23, 528-543.
- Hessler, I., Young, M., Holzwarth, U., Mohtadi, M., Lückge, A., Behling, H., 2013. Imprint of the Eastern Indian Ocean surface oceanography on modern organic-walled dinoflagellate cyst assemblages. *Marine Micropaleontology*, 101, 89-105.
- Jantz, N., Homeier, J., León-Yáñez, S., Moscoso, A., Behling, H., 2013. Trapping pollen in the tropics - Comparing modern pollen rain spectra of different pollen traps and surface samples across Andean vegetation zones. *Review of Palaeobotany and Palynology*, 193, 57-69.
- Jeske-Pieruschka, V., Pillar, V.D. and Behling, H. 2013. New insights into vegetation, climate and fire history of southern Brazil revealed by a 40,000 years-old environmental record from the State Park Serra do Tabuleiro. *Vegetation History and Archaeobotany*, 22, 299-314.
- Meneses, M.E.N. da S., Costa, M.L. da, Behling, H. 2013. Late Holocene vegetation and fire dynamics from a savanna - forest ecotone in Roraima state, northern Brazilian Amazon. *Journal of South American Earth Sciences*, 42, 17-26.
- Niemann, H., Matthias, I., Michalzik, B., Behling, H., 2013. Late Holocene human impact and environmental change inferred from a multi-proxy lake sediment record in the Loja region, southeastern Ecuador. *Quaternary International*, 308, 253-264.
- Power, M.J., Mayle F.E., Bartlein, P.J. Marlon, J.R., Anderson, R.S., Behling, H., Brown, K.J., Carcaillet, C., Colombaroli, D., Gavin, D.G., Hallett, D.J., Horn, S.P., Kennedy, L.M., Lane, C., Long, C., Moreno, P.I., Paitre, C., Robinson, G., Taylor, Z., Walsh, M., 2013. Climatic control of the biomass-burning decline in the Americas after AD 1500. *The Holocene*, 23, 3-13.
- Rodríguez, F., Bräuning, A., Gerique, A., Behling, H., Volland, F., 2013. Landscape History, Vegetation History and Past Human Impacts. In: Bendix, J., Beck, E., Bräuning, A., Makeschin, F., Mosandl, R., Scheu, S., Wilcke, W. (eds.) *Ecosystem Services, Biodiversity and Environmental Change in a Tropical Mountain Ecosystem of South Ecuador*. Ecological Studies, Volume 221, pp. 53-66.

- Shumilovskikh, L., Arz, H.W., Wegwerth, A., Fleitmann, D., Marret, F., Nowaczyk, N., Tarasov, P., Behling, H., 2013. Vegetation and environmental changes in Northern Anatolia during 134-119 ka recorded in Black Sea sediments. *Quaternary Research*, 80, 349-360.
- Shumilovskikh, L., Fleitmann, D., Marret, F., Arz, H.W., Nowaczyk, N., Plessen, B., Behling, H., 2013. Eemian and Holocene sea-surface conditions in the southern Black Sea: organic-walled dinoflagellate cyst record from 22-GC3/8. *Marine Micropaleontology*, 101, 146-160.
- Villota, A., Behling, H., 2013. Late Quaternary vegetation, climate and fire dynamics, human impact and evidence of past *Polylepis* populations in the northern Andean Depression inferred from the El Cristal record, in southeastern Ecuador. *Ecotropica*, 19, 49-68.
- Wang, L-C., Behling, H., Lee, T.-Q., Li, H.-C., Huh, C.-A., Shiao, L.-J., Chen, S.-H., Wu, J.-T., 2013. Increased precipitation during the Little Ice Age in northern Taiwan inferred from diatoms and geochemistry in a sediment core from a subalpine lake. *Journal of Paleolimnology*, 49, 619-631.
- Werner, F.A., Jantz, N., Krashevskaya, V., Peters, T., Behling, H., Maraun, M., Scheu, S., Brehm, G., 2013. Climate Change Effects on Biodiversity and Ecosystem Functioning. In: Bendix, J., Beck, E., Bräuning, A., Makeschin, F., Mosandl, R., Scheu, S., Wilcke, W. (eds.) *Ecosystem Services, Biodiversity and Environmental Change in a Tropical Mountain Ecosystem of South Ecuador*. Ecological Studies, Volume 221, pp. 247-263.
- Yanfang, P., Shun, Y., Behling, H., Guijin, M., 2013. Transport of airborne *Picea schrenkiana* pollen on the northern slope of Tianshan Mountains (Xinjiang, China) and its implication for palaeoenvironmental reconstruction. *Aerobiologia*, 29, 161-173.

2014

- Jantz, N., Homeier, J., Behling, H. 2014. Representativeness of tree diversity in the modern pollen rain of Andean montane forests. *Journal of Vegetation Science*, 25, 481-490.
- Poliakova, A., Rixen, T., Jennerjahn, T., Behling, H., 2014. Eleven month high resolution pollen and spore sedimentation record off SW Java in the Indian Ocean. *Marine Micropaleontology*, 111, 90-99.
- Schüler, L., Hemp, A., Behling, H., 2014. Pollen-rain – vegetation relationship along an elevational gradient between 1900 and 3200 m on Kilimanjaro (Tanzania). *The Holocene*, 24, 207-213.
- Scheer, M.B., Pereira, N.V., Behling, H., Curcio, R.G., Roderjan, C.V., 2014. Nine thousand years of upper montane soil/vegetation dynamics from the summit of Caratua Peak, Southern Brazil. *Journal of South American Earth Sciences*, 56, 365-375.
- Shumilovskikh, L. S., Fleitmann, D., Nowaczyk, N. R., Behling, H., Marret, F., Wegwerth, A., and Arz, H. W., 2014. Orbital and millennial-scale environmental changes between 64 and 20 ka BP recorded in Black Sea sediments, *Climate of the Past Discussion*, 10, 939-954.
- Shumilovskikh, L., Tarasov, P., Arz, H.W., Fleitmann, D., Marret, F., Nowaczyk, N., Plessen, B., Schlütz, F., Behling, H., 2014. Vegetation and environmental dynamics in the southern Black Sea region since 18 kyr BP derived from the marine core 22-GC3 (vol 337, pg 177, 2012). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 393, 159–159.
- Villota, A., Behling H., 2014. Late Glacial and Holocene environmental change inferred from the páramo of Cajanuma in the Podocarpus National Park, southern Ecuador. *Caldasia*, 36, 345-364.
- Wang, L-C., Behling, H., Chang, Y.-P., Chen, Y.M., Huang, M.-S., Chen, A. C.-T., Lo, J.-Y., and Li, H.-C., 2014. Holocene monsoonal climate changes tracked by multiproxy approach from a lacustrine sediment core of the subalpine Retread Lake in Taiwan. *Quaternary International*, 333, 69-76.

- Wang, L.-C., Behling, H., Lee, T.-Q., Li, H.-C., Huh, C.-A., Shiau, L.-J., and Chang, Y.-P., 2014. Late Holocene environmental reconstructions and the implications on flood events, typhoon patterns, and agriculture activities in NE Taiwan. *Climate of the Past*, 10, 1857-1869.
- Wündsich, M., Biagioni, S., Behling, H., Reinwarth, B., Franz, S., Bierbaß, P., Daut, G., Mäusbacher, R., Haberzettl, T., 2014. ENSO and monsoon variability during the past 1.5 kyr as reflected in sediments from Lake Kalimpa, Central Sulawesi (Indonesia). *The Holocene*, 24, 1743-1756.

2015

- Alizadeh, K., Cohen, M., Behling, H., 2015. Origin and dynamics of the northern South American coastal savanna belt during the Holocene - the role of climate, sea-level, fire and humans. *Quaternary Science Reviews*, 122, 51-62.
- Arz, H. W., Shumilovskikh, L. S., Wegwerth, A., Fleitmann, D., Behling, H., 2015. Environmental and Climate Dynamics During the Last Two Glacial Terminations and Interglacials in the Black Sea/Northern Anatolian Region. *SpringerBriefs in Earth System Sciences*. pp 121-126. DOI 10.1007/978-3-319-00693-2_20
- Behling, H., 2015. Die Entwicklung der Araukarienwälder und des Campos im südlichen Brasilien im Spätquartär. *Berichte der Reinhold-Tüxen-Gesellschaft*, 27, 146-152
- Flantua, S. G. A., Hooghiemstra, H., Grimm, E. C., Behling, H., Bush, M. B., González-Arango, C., Gosling, W. D., Ledru, M.-P., Lozano-García, S., Maldonado, A., Prieto, A. R., Rull, V. and Van Boxel, J. H., 2015. Updated site compilation of the Latin American Pollen Database, *Review of Palaeobotany and Palynology*, 223, 104–115, doi:10.1016/j.revpalbo.2015.09.008.
- Hermanowski, B., Costa, M., Behling, H., 2015. Possible linkage of palaeofire in southeast Amazonia to a changing climate since the Last Glacial Maximum. *Vegetation History and Archaeobotany*, 24, 279-292.
- Jan, F., Schüler, L., Behling, H., 2015. Trends of pollen grain size variation in C3 and C4 Poaceae species using pollen morphology for future assessment of grassland ecosystem dynamics. *Grana*, 54, 129-145.
- Biagioni, S., Wündsich, M., Haberzettl, T., Behling, H., 2015. Assessing resilience/sensitivity of tropical mountain rainforests towards climate variability of the last 1500 years: The long-term perspective at Lake Kalimpa (Sulawesi, Indonesia). *Review of Palaeobotany and Palynology*, 213, 42-53.
- Biagioni, S., Krashevskaya V., Achnopha, Y., Asmadi Saad, S., Sabiham, S., Behling, H., 2015. 8000 years of vegetation dynamics and environmental changes of a unique inland peat ecosystem of the Jambi Province in Central Sumatra, Indonesia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 440, 813-829.
- Kirchner, A., Nehren, U., Behling, H. and Heinrich, J., 2015. Mid- and late Holocene fluvial dynamics in the tropical Guapi-Macacu catchment, Southeast Brazil: The role of climate change and human impact. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **426, 308–318**.
- Mendes, L.A. da S., Pires, E.F., Meneses, M.E.N. da S., Behling, H., 2015. Vegetational changes during the last millennium inferred from a palynological record from the Bananal Island, Tocantins, Brazil. *Acta Amazonica*, 45, 215-230.
- Meneses, M.E.N. da S., Costa, M.L. da, Enters, D., Behling, H. 2015. Environmental changes during the last millennium based on multi-proxy palaeoecological records in a savanna-forest mosaic from the northernmost Brazilian Amazon region. *Anais Brasileira de Ciências*, 87, 1623-1651.

- Sadowski, E.-M., Seyfullah, L.J., Sadowski, F., Fleischmann, A., Behling, H., Schmidt, A.R. 2015. Carnivorous leaves from Baltic amber. PNAS, 112, 190-195. www.pnas.org/cgi/doi/10.1073/pnas.1414777111
- Villota, A., León-Yáñez, S., Behling H., 2015. Mid- and late Holocene high resolution vegetation and environmental dynamics in the Llanganates National Park, Antiojos Valley, central Ecuadorian Andes. Palynology, 39, 350-361.
- Wang, L.-C., Behling, H., Kao, S.-J., Li, H.-C., Selvaraj, K., Hsieh, M.-L. and Chang, Y.-P., 2015. Late Holocene environment of subalpine northeastern Taiwan from pollen and diatom analysis of lake sediments. Journal of Asian Earth Sciences, 114, 447-456.
- Rodríguez-Zorro, P.A., Enters, D., Hermanowski, B., Costa, M., Behling, H. 2015. Vegetation changes and human impact inferred from an oxbow lake in southwestern Amazonia, Brazil since the 19th century. Journal of South American Earth Sciences, 62, 186-194.

2016

- Behling, H., Pereira, N.P., Soraia Girardi Bauermann, S.G., Bordignon, S.A. de L., Evaldt, A. C. P., 2016. Late Holocene vegetation history and early evidence of *Araucaria angustifolia* in Caçapava do Sul in the lowland region of Rio Grande do Sul State, southern Brazil. Archives of Biology and Technology, 59, e16150264
- Biagioni, S., Haberzettl, T., Wang, L.-C., St-Onge, G. and Behling, H., 2016. Unravelling the past 1.000 years of history of human-climate-landscape interactions at the Lindu plain (Sulawesi, Indonesia). Vegetation History and Archaeobotany, 25, 1-17. DOI 10.1007/s00334-015-0523-1
- Flantua, S.G.A., Hooghiemstra, H., Vuille, M., Behling, H., Carson, J.F., Gosling, W.D., Hoyos, I., Ledru, M.P., Montoya, E., Mayle, F., Maldonado, A., Rull, V., Tonello, M.S., Vuille, M., Whitney, B.S., González-Arango, C., 2016. Climate variability and human impact in South America during the last 2000 years: synthesis and perspectives from pollen records. Climate of the Past, 12, 483-523.
- Hoogakker, B.A.A., R.S. Smith, J.S. Singarayer, R. Marchant, L.C. Prentice, J. Allen, R.S. Anderson, S.A. Bhagwat, H. Behling, O. Borisova, M. Bush, A. Correa-Metrio, A. de Vernal, J.M. Finch, B. Frechette, S.L. Garcia, W.D. Gosling, W. Granoszewski, E.C. Grimm, E. Grueger, J. Hanselman, S.P. Harrison, T.R. Hill, B. Huntley, G. Jimenez-Moreno, P. Kershaw, M.-P. Ledru, D. Magri, M. McKenzie, U. MullerNakagawa, T. Nakagawa, E. Novenko, D. Penny, L. Sadori, L. Scott, J. Stevenson, P.J. Valdes, M. Vandergoes, Velichko, A. Velichko, C. Whitlock, and P. Tzedakis, 2016. Terrestrial biosphere changes over the last 120,000 years and their impact on ocean d13C. Climate of the Past 12, 51-73.
- Jan, F., Schüller, L., Behling, H., 2016. Vegetation and pollen along a 200 km transect in Khyber Pakhtunkhwa Province, north western Pakistan. Palynology, 40, 322-342.
- Leal, Al, Bibiana Bilbao, B., Berrio, J.C., Behling, H., Montoya, J.V., Méndez, C., 2016, Late Holocene gallery-forest retrogression in the Venezuelan Guayana: New data and implications for the conservation of a cultural landscape. The Holocene, 26, 1049-1063.
- Poliakova, A., Behling, H., 2016. Pollen and fern spores recorded in recent and late Holocene marine sediments from the Indian Ocean and Java Sea in Indonesia. Quaternary International, 392, 251-314
- Poliakova, A., Zonneveld, K.A.F., Herbeck, L., Jennerjahn, T.C., Permanad, H., Kwiatkowski, C., Behling, H., 2016. High resolution multi-proxy reconstruction of environmental changes in coastal waters of the Java Sea, Indonesia, during the late Holocene. Palynology, online. <http://dx.doi.org/10.1080/01916122.2016.1162865>

- Rodrigues, J.M., Behling, H., Giesecke, T., 2016. Differentiating vegetation types from eastern South American ecosystems based on modern and subfossil pollen samples - evaluating modern analogues. *Vegetation History and Archaeobotany*, 25, 387-403.
- Rodrigues, J.M., Behling, H., Giesecke, T., 2016. Holocene dynamics of vegetation change in Southern and Southeastern Brazil is consistent with climate forcing. *Quaternary Science Reviews*, 146, 54-65.
- Zhang, Y., Zhang, X., Chiessi, C.M., Mulitza, S., Zhang, X., Lohmann, G., Prange, M., Behling, H., Zabel, M., Govin, A., Sawakuchi, A.O., Cruz, F.W., Wefer, G., 2016. Equatorial Pacific forcing of western Amazonian precipitation during Heinrich Stadial 1. *Nature Communications* 6, 35866.

2017

- Alizadeh, K., Matthias, I., Rodriguez, P., Hermanowski, B., Costa, M., Behling, H., 2017. Forest-savanna boundary shift on the plateau of Serra Sul dos Carajás (southeastern Amazonia) since the mid-Holocene; driving forces and limiting factors. *Quaternary International*, 449, 12-21. online. <https://doi.org/10.1016/j.quaint.2017.07.001>
- Fontes, D., Cordeiro, R.C., Martins, G.S., Behling, H., Turcq, B., Sifeddine, A., Seoane, J.C.S., Moreira, L.S., Rodrigues, R.A. 2017. Paleoenvironmental dynamics in South Amazonia, Brazil, during the last 35,000 years inferred from pollen and geochemical records of Lago do Saci. *Quaternary Science Reviews*, 173C, 161-180.
- Gu, F., Zonneveld, K.A.F., Chiessi, C.M., Arz, H.W., Pätzold, J., Behling, H., 2017. Long-term vegetation, climate and ocean dynamics inferred from a 73,500 years old marine sediment core (GeoB2107-3) off southern Brazil. *Quaternary Science Reviews*, 172C, 55-71. DOI information: 10.1016/j.quascirev.2017.06.028
- Hapsari, K.A.; Biagioni, S., Reimer, P., Saad, A.; Achnophya, Y., Sabiham, S., Tim C. Jennerjahn T.C., Behling, H., 2017. Environmental dynamics and carbon accumulation rate of a tropical peatland in Central Sumatra, Indonesia. *Quaternary Science Reviews*, 169, 173-187.
- Poliakova, A., Zonneveld, K.A.F., Kwiatkowski, C., Suryoko, M.A., Behling, H., 2017. Marine environment, vegetation and land use changes during the late Holocene in South Kalimantan and East Java reconstructed based on pollen and organic-walled dinoflagellate cysts analysis. *Review of Palaeobotany and Palynology*, 238,105-121.
- Poliakova, A., Zonneveld, K.A.F., Herbeck, L., Jennerjahn, T.C., Permanad, H., Kwiatkowski, C., Behling, H., 2017. High resolution multi-proxy reconstruction of environmental changes in coastal waters of the Java Sea, Indonesia, during the late Holocene. *Palynology*, 41, 297-310. <http://dx.doi.org/10.1080/01916122.2016.1162865>
- Rodríguez-Zorro, P.A., Costa M., Behling, H., 2017. Mid-Holocene vegetation dynamics with an early expansion of *Mauritia flexuosa* palm trees inferred from the Serra do Tepequém in the savannas of Roraima State in Amazonia, northwestern Brazil, *Vegetation History and Archaeobotany*, 26, 455-468. DOI 10.1007/s00334-017-0605-3
- Sánchez Goñi, M. F., Desprat, S., Danialu, A.-L., Bassinot, F. C., Polanco-Martínez, J. M., Harrison, S. P., Allen, J. R. M., Anderson, R. S., Behling, H., Bonnefille, R., Burjachs, F., Carrión, J. S., Cheddadi, R., Clark, J. S., Combourieu-Nebout, N., Courtney-Mustaphi, C. J., Debusk, G. H., Dupont, L. M., Finch, J. M., Fletcher, W. J., Giardini, M., González, C., Gosling, W. D., Grigg, L. D., Grimm, E. C., Hayashi, R., Helmens, K., Heusser, L. E., Hill, T., Hope, G., Huntley, B., Igarashi, Y., Irino, T., Jacobs, B., Jiménez-Moreno, G., Kawai, S., Kershaw, P., Kumon, F., Lawson, I. T., Ledru, M.-P., Lézine, A.-M., Liew, P. M., Magri, D., Marchant, R., Margari, V., Mayle, F. E., McKenzie, M., Moss, P., Müller, S., Müller, U. C., Naughton, F., Newnham, R. M., Oba, T., Pérez-Obiol, R., Pini, R., Ravazzi, C., Roucoux, K. H., Rucina, S. M., Scott, L., Takahara, H., Tzedakis, P. C., Urrego, D. H.,

van Geel, B., Valencia, B. G., Vandergoes, M. J., Vincens, A., Whitlock, C. L., Willard, D. A. and Yamamoto, M., 2017. The ACER pollen and charcoal database: a global resource to document vegetation and fire response to abrupt climate changes during the last glacial period. *Earth System Science Data*, 9, 679–695, 2017 <https://doi.org/10.5194/essd-9-679-2017> (ISSN 1866-3591)

Villota, A., Behling H., León-Yáñez, S., 2017. Three millennia of vegetation and environmental dynamics in the Lagunas de Mojanda region, northern Ecuador. *Acta Palaeobotanica*, 57, 407-421.

2018

Behling, H., Oliveira, M.A.T., 2018. Evidence of a late glacial warming event and early Holocene cooling in the southern Brazilian coastal highland region. *Quaternary Research*, 89, 90-102.

Gu, F., Chiessi, C.M., Zonneveld, K.A., Behling H., 2018. Late Quaternary environmental dynamics inferred from marine sediment core GeoB6211-2 off southern South Brazil. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 496, 48-61.

Guarinello de Oliveira Portes, M. C., Safford, H. Behling, H., 2018. Humans and climate as designers of the landscape in Serra da Bocaina National Park, southeastern Brazil, over the last seven centuries. *Anthropocene*, 24, 61-71.

Hapsari, K.A., Biagioni, S., Jennerjahn T.C., Reimer, P., Saad, A., Sabiham, S., Behling, H., 2018. Resilience of a peatland in Central Sumatra, Indonesia to past anthropogenic disturbance: improving conservation and restoration designs using palaeoecology. *Journal of Ecology*, 106, 2743- 2490 DOI: 10.1111/1365-2745.13000

Marzinzig, B., Brünjes, L., Biagioni, S., Behling, H., Link, W., Westphal, C., 2018. Bee pollinators of faba bean (*Vicia faba* L.) differ in their foraging behaviour and pollination efficiency. *Agriculture, Ecosystems and Environment*, 264, 24-33.

Montade, V., Schüler, L., Hemp, A., Bremond, L., Duarte, A. M. S., Behling, H., 2018. Late Quaternary ecotone change between subalpine and montane forest zone on the dry northern slope of Mt. Kilimanjaro. *Journal of Vegetation Science*, 29, 459-468.

Rodríguez-Zorro, P.A., Turcq, B., Cordeiro, R.C., Moreira, L.S., Costa, R.L., McMichael, C.H., Behling, H., 2018. Forest stability during the early and late Holocene in the igapó floodplains of the Rio Negro, northwestern Brazil. *Quaternary Research*, 89, 75-89.

Schüler L, Hemp A, Behling H., 2018. Studies on late Quaternary environmental dynamics (vegetation, biodiversity, climate, soils, fire and human impact) on Mt Kilimanjaro. In: Hemp C, Böhning-Gaese K, Fischer M, Hemp A, editors. *The KiLi Project: Kilimanjaro ecosystems under global change: Linking biodiversity, biotic interactions and biogeochemical ecosystem processes*. Frankfurt/Main, Germany: Senckenberg Gesellschaft für Naturforschung; p. 86–93. ISBN 978-3-929907-96-4

Setyaningsih, C.A., Biagioni, S., Achnopha, Y. Asmadi Saad, S., Sabiham, S., Behling, H., 2018. The effect of volcanism on submontane rainforest vegetation composition: Palaeoecological evidence from Danau Njalau, Sumatra (Indonesia). *The Holocene*, 28, 293-307.

Unkelbach, J., Dulamsuren, C., Punsalpaamuu, G., Saindovdon, D., Behling, H. 2018. Late Holocene vegetation, climate, human and fire history of the forest-steppe-ecosystem inferred from core G2-A in the 'Altai Tavan Bogd' conservation area in Mongolia. *Vegetation History and Archaeobotany*, 27, 665-677.

2019

- Brugger, S.O., Gobet, E., Osmont, D., Behling, H., Fontana, S.L., Hooghiemstra, H., Morales-Molino, C., Sigl, M., Schwikowski, M., Tinner, W., 2019. Tropical Andean glacier reveals colonial legacy in modern mountain ecosystems. *Quaternary Science Reviews*, 220, 1-13.
- Gu, F., Chiessi, C.M., Zonneveld, K.A., Behling H., 2019. Shifts of the Brazil-Falklands/Malvinas Confluence in the western South Atlantic during the latest Pleistocene–Holocene inferred from dinoflagellate cysts. *Palynology*, 43, 483-493. DOI: 10.1080/01916122.2018.1470116
- Hass, A.L., Brachmann, L., Batáry, P., Clough, Y., Behling, H., Tschardtke, T., 2018. Maize-dominated landscapes reduce bumblebee colony growth through pollen diversity loss. *Journal of Applied Ecology*, 56, 294-304. DOI: dx.doi.org/10.1111/1365-2664.13296
- Hait, A.K. and Behling, H., 2019. Responses of the mangrove ecosystem to Holocene environmental change in the Sundarban Biosphere Reserve, India. *Acta Palaeobotanica*, 59(2), 391–409. DOI: 10.2478/acpa-2019-0013, ISSN 0001-6594
- Jan, F., Schüler, L., Behling, H., 2019. Holocene vegetation and climate dynamics in Khyber Pakhtunkhwa, northwestern Pakistan, inferred from the Kabal Swat pollen record during the last 3300 years. *Acta Palaeobotanica*, 59, 145-163. DOI: 10.2478/acpa-2019-0001
- Leal, A., Gassón, R., Behling, H., Sánchez, F., 2019. Human-made fires and forest clearance as evidence for late Holocene landscape domestication in the Orinoco Llanos (Venezuela). *Vegetation History and Archaeobotany*, 28, 545 -557.
- Montade, V., Ledru, M.-P., Giesecke, T., Peyron, O., Behling, H., Flantua, S., 2019. A new modern pollen dataset describing the Brazilian Atlantic Forest. *The Holocene*, 29, 1253-1262.
- Setyaningsih, C.A., Biagioni, S., Asmadi Saad, S., Kashima, K., Sabiham, S., Behling, H., 2019. Response of mangroves to late Holocene sea-level change: palaeoecological evidence from Sumatra, Indonesia. *Wetlands*, 39, 1103-1118. doi.org/10.1007/s13157-019-01142-1
- Setyaningsih, C.A., Behling, H., Asmadi Saad, Shumilovskikh, L., Sabiham, S., Biagioni, S., 2019. First palaeoecological evidence of Buffaloes husbandry and rice cultivation in the Kerinci Seblat National Park in Sumatra, Indonesia. *Vegetation History and Archaeobotany*, 28, 591–606.
- Unkelbach, J., Kashima, K., Enters, D., Dulamsuren, C., Punsalpaamuug, G., Behling, H., 2019. Late Holocene (Meghalayan) palaeoenvironmental evolution inferred from multi-proxy-studies of lacustrine sediments from the Dayan Nuur region of Mongolia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 530, 1–14.
- Yang, S., Song, B., Ye, S., He, L., Li, J., Chen, J., Laws, A.E, Zhao, G., Zhao, J., Mei, X., Behling, H., 2019. Large-scale pollen distribution in marine surface sediments from the Bohai Sea, China: insights into pollen provenance, transport, deposition, and coastal-shelf paleoenvironment. *Progress in Oceanography*, 178, 102183.

2020

- Adolf, C., Tovar, C., Kühn, N., Behling, H., Berrío, J.C., Dominguez-Vázquez, G., Figueroa-Rangel, B., Gonzalez-Carranza, Z., Islebe, G.A., Hooghiemstra, H., Neff, H., Olvera-Vargas, M., Whitney, B., Wooller, M., Willis, K.J., 2020. Identifying drivers of forest resilience in long-term records from the Neotropics. *Biological Letters*, 16: 20200005. <http://dx.doi.org/10.1098/rsbl.2020.0005>
- Behling, H., Jantz, N., Safford, H., 2020. Mid- and Late Holocene vegetation, climate and fire dynamics in the Serra do Itatiaia, Rio de Janeiro State, southeastern Brazil., *Review of Palaeobotany and Palynology*, 274, 104-152. <https://doi.org/10.1016/j.revpalbo.2019.104152>
- de Moraes, C.A., Oliveira, M.A.T., Behling, H., 2020. Late Holocene climate dynamics and human impact inferred from vegetation and fire history in the Catimbau National Park, Northeast Brazil. *Review of Palaeobotany and Palynology*, 282, 104299. <https://doi.org/10.1016/j.revpalbo.2020.104299>
- Gu, F., Pätzold, J., Behling, H., 2020. Evidence of cooling in the tropical South Atlantic off southeastern Brazil during the last 50 kyr. *Review of Palaeobotany and Palynology*, 272, 104-128. <https://doi.org/10.1016/j.revpalbo.2019.104128>
- Hapsari, K.A., Jennerjahn T.C., Lukas, M., Karius, V., Behling, H., 2020. Intertwined effects of climate and land use change on environmental dynamics and carbon accumulation in a mangrove-fringed lagoon in Java, Indonesia. *Global Change Biology*, 26, 1414–1431. DOI: 10.1111/gcb.14926
- Jahnk, S.L., Behling, H., Kuchler, P., Schmidt, M., 2020. Vegetations- und Landnutzungsgeschichte des Reinhardswaldes (Hessen). *Tuexenia*, 40, 101–130.
- Khansaritoreh, E., Salmaki, Y., Ramezani, E., Akbari Azirani, T.A., Keller, A., Neumann, K., Alizadeh, K., Zarre, S., Beckh, G., Behling, H., 2020. Employing DNA metabarcoding to determine the geographical origin of honey. *Heliyon*, 6, e05596
- Krashevskaya V., Tsyganov A.N., Anton S. Esaulov, A.S., Mazei, Y.A., Hapsari, K.A., Saad, A., Subiham, S., Behling, H., Biagioni, S., 2020. Testate Amoebae species- and trait-based transfer functions for hydrological regime evaluation in tropical peatland in central Sumatra, Indonesia. *Frontiers in Ecology and Evolution*, 225, DOI: 10.3389/fevo.2020.00225
- Portes, M.C.D.G., Safford, H.D., Montade, V., Behling, H., 2020. Pollen rain - vegetation relationship along an elevational gradient in the Serra dos Órgãos National Park, southeastern Brazil. *Review of Palaeobotany and Palynology*, 283, 104314. <https://doi.org/10.1016/j.revpalbo.2020.104314>
- Portes, M.C.D.G., Behling, H., Montade, V., Safford, H.D., 2020. Holocene vegetation, climate and fire dynamics in the Serra dos Órgãos, Rio de Janeiro State, southeastern Brazil. *Acta Palaeobotanica*, 60(2): 438–453.
- Saindovdon, D., Unkelbach, J., Dulamsuren, Ch., Punsalpaamuu, G., Ulugvan, B., Behling, H., 2020. Modern pollen rain studies at the forest steppe ecotone in the Dayan Nuur region, Mongolian Altai. *Mongolian Journal of Biological Sciences*, 18 (1), 11-19.
- Unkelbach, J., Kashima, K., Enters, D., Dulamsuren, Ch., Behling, H., 2020. Decadal high-resolution multi-proxy analysis to reconstruct natural and human induced environmental changes over the last 1,350 cal yr BP in the Altai Tavan Bogd National Park, western Mongolia. *The Holocene*, 30, 1016-1028.
- Zaky, A.S., Kashima, K., Frontalini, F., Ibrahim, M.I.A., Khalifa, M.M., Fukumoto, Y., Gad, D., Behling, H., 2020. Mid-to Late Holocene paleoclimatic changes and paleoenvironmental shifts inferred from pollen and diatom assemblages at Lake Hamra, Wadi El Natrun (Western Nile Delta, North Western Desert, Egypt). *Quaternary International*, 542, 109-120.

2021

- Bodor, Z., Kovacs, Z., Benedek, C., Hitka, G., Behling, H., 2021. Origin identification of Hungarian honey using melissopalynology, physicochemical analysis, and near infrared spectroscopy. *Molecules*, 26,7274. <https://doi.org/10.3390/molecules26237274>
- Bush, M.B., Nascimento, M.N., Åkesson, C. M., Cárdenes-Sandí, G.M., Maezumi, S.Y., Behling, H., Correa-Metrio, A., Church, W., Huisman, S.N., Kelly, T., Mayle, F.E., McMichael, C.N.H., 2021. Widespread reforestation before European influence on Amazonia. *Science*, 372 (6541), 484-487. DOI: 10.1126/science.abf3870
- Dugerdil, L., Joannin, S., Peyron, O., Jouffroy-Bapicot, I., Vanni re, B., Bazartseren, B., Unkelbach, J., Behling, H., M not., G., 2021. Climate reconstructions based on GDGT and pollen surface datasets from Mongolia and Siberia: calibrations and applicability to extremely cold-dry environments over the Late Holocene. *Climate of the Past*, 17, 1199–1226. <https://doi.org/10.5194/cp-17-1199-2021>
- Dugerdil, L., M not, G., Peyron, O., Jouffroy-Bapicot, I., Ansanay-Alex, S., Antheaume, I., ; Behling, H., Boldgiv, B., Develle, A-L., Grossi, V., Magail, J., Makou, M., Robles, M., Unkelbach, J., Vanni re, B., Joannin, S., 2021., Late Holocene Mongolian climate and environment reconstructions from brGDGTs, NPPs and pollen transfer functions for Lake Ayrag: Paleoclimate implications for Arid Central Asia. *Quaternary Science Reviews*, 273,107235.
- Gu, F., Alizadeh, K., Ramezani, E., Behling, H., 2021. Vegetation Dynamics, Environmental Changes and Anthropogenic Impacts on the Coastal Hyrcanian Forests in Northern Iran. *Journal of Coastal Research*, 37, 611-619.
- Hapsari, K.A., Biagioni, S., Jennerjahn T.C., Saad, A., Sabiham, S., Corre, M.D., Veldkamp, E., Behling, H., 2021. Late Holocene ENSO-related fire impact on vegetation, nutrient status and carbon accumulation of peatlands in Jambi, Sumatra, Indonesia. *Review of Palaeobotany and Palynology*, 293, 104482.
- Khansaritoreh, E., Salmaki, Y., Akbari Azirani, T.A., Henareh, F., Alizadeh, K., Ramezani, E., Zarre, S., Beckh G., Behling, H., 2021. The sources and quality of Iranian honey. *Heliyon*, Vol. 7, 4, e06651. <https://doi.org/10.1016/j.heliyon.2021.e06651>
- Mendes, L.A. da S., Meneses, M.E.N. da S., Behling, H., Costa, M. L. da, 2021. Modern and fossil pollen record from the Middle Araguaia River Floodplain, Tocantins State, Brazil. *Pesquisas em Geoci ncias*, 48 (vol), No 4, e111397
- Moraes, C.A. de, Costa, M.L., Navarro, A.G., Meneses, M.E.N.D, Negr o, L.B.A., P llmann, H., Behling, H., 2021. Holocene coastal environmental changes inferred by multi-proxy analysis from Lagoa do Formoso sediments in Maranh o State, northeastern Brazil. *Quaternary Science Reviews*, 273, 107234. <https://doi.org/10.1016/j.quascirev.2021.107234>
- Piacsek, P., Behling, H., Ballalai, J.M., Nogueira, J., Venancio, I.M., Albuquerque, A.L.S., 2021. Reconstruction of vegetation and low latitude ocean-atmosphere dynamics of the past 130 kyr, based on south American montane pollen types. *Global and Planetary Change*, 201, 102477. <https://doi.org/10.1016/j.gloplacha.2021.103477>
- Piacsek, P., Behling, H., Gu, F., Venancio, I.M., Lessa, D.V.O., Belem, A., Albuquerque, A.L.S., 2021. Changes in sea surface hydrography and productivity in the western equatorial Atlantic since the Last Interglacial. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 562, 109952. <https://doi.org/10.1016/j.palaeo.2020.109952>
- Ramadani, R.F., Raffiudin, R., Ariyanti, N.S., Biagioni, S., Treanore, E., Behling. H., 2021. Stingless bee foraging behavior and pollen resource use in oil palm and rubber plantations in Sumatra. *Indonesian Journal of Entomology*, 18(2), 81-92. <https://doi.org/10.5994/jei.18.2.81>

- Ramezani, E., Talebi, T., Alizadeh, K., Shirvany, A. Behnam Hamzeh'ee, B., Behling, H., 2021. Long-term persistence of steppe vegetation in the highlands of Arasbaran Protected Area, northwestern Iran as inferred from a pollen record. *Palynology*, 45, 15-26, DOI: 10.1080/01916122.2019.1702117
- Teixeira, H., Montade, V., Salmons, J., Metzger, J., Bremond, L., Kasper, T., Daut, G., Rouland, S., Ranarilalaitiana, S., Rakotondravony R., Chikhi, L., Behling, H., Radespiel, U., 2021. Past environmental changes affected lemur population dynamics prior to human impact in Madagascar. *Communications Biology* 4 (1), p. 1084. DOI: [10.1038/s42003-021-02620-1](https://doi.org/10.1038/s42003-021-02620-1)
- Tserendorj, G., Marinova, E., Lechterbeck, J., Behling, H., Wick, L., Fischer, E., Sillmann, M., Märkle, T., Rösch, M., 2021. Intensification of agriculture in southwestern Germany between Bronze Age and Medieval period, based on archaeobotanical data from Baden-Württemberg. *Vegetation History and Archaeobotany*, 30, 35-46.
- Totmaj, L.H., Alizadeh, K., Giachi, P., Khatooni, J.D., Behling, H., 2021. Late Holocene Hyrcanian forest and environmental dynamics in the mid-elevated highland of the Alborz Mountains, northern Iran. *Review of Palaeobotany and Palynology*, 295, 104507. <https://doi.org/10.1016/j.revpalbo.2021.104507>
- Totmaj, L.H., Ramezani, E., Alizadeh, K., Behling, H., 2021. Four millennia of vegetation and environmental history above the Hyrcanian forest, northern Iran. *Vegetation History and Archaeobotany*, 30, 611-621. <https://doi.org/10.1007/s00334-020-00813-y>
- Unkelbach, J., Dulamsuren, C., Behling, H., 2021. Late Holocene climate and land-use history in the Mongolian Altai Mountains: combined evidence from palynological, macro-charcoal and tree-ring analyses. *Trees Forests and People*, 4(3), 100073.
- Unkelbach, J., Klinge, M., Dulamsuren, C., Behling, H., 2021. Holocene high-resolution forest-steppe and environmental dynamics in the Tarvagatai Mountains, north-central Mongolia, over the last 9570 cal yr BP. *Quaternary Science Reviews*, 266, 107076.
- Wang, J., Zhou, X., Xu, H., Liu, J., Yang, O., Zhao, C., Gao, O., Zhao, K., Behling, H., Li, X., 2021. Relationship between C₄ biomass and C₄ agriculture during the Holocene and its implications for millet domestication in Northeast China. *Geophysical Research Letters*, 48, e2020GL089566 <https://doi.org/10.1029/2020GL089566>
- Zolitschka, B., Polgar, I.S., Behling, H., 2021. Created by the Monte Peron rock avalanche: Lago di Vedana (Dolomites, Italy) and its sediment record of landscape evolution after a mass wasting event. *Landslides*, 19, 297-311. <https://doi.org/10.1007/s10346-021-01787-2>

2022

- Behling, H., Dupont, L.M., Jahns, S., Schlütz, F., Christiansen, J., Bittmann, F., 2022. In memoriam Prof. em. Dr. Hans-Jürgen Beug, 18th January 1932 to 5th March 2022. *Vegetation History and Archaeobotany*, 31, 443-445. <https://doi.org/10.1007/s00334-022-00883-0>
- Gu, F., Alizadeh, K., Behling, H., 2022. Late Holocene Vegetation and Environmental Changes of Coastal Lowlands in Northern Iran: Possible Role of Climate, Human Impact and Caspian Sea Level Fluctuations. *Coastal Wetlands*, 42, 35. <https://doi.org/10.1007/s13157-022-01555-5>
- Hapsari, K.A., Jennerjahn, T., Nugroho, S.H., Yulianto, E., Behling, H., 2022. Sea level rise and climate change acting as interactive stressors on development and dynamics of tropical peatlands in coastal Sumatra and South Borneo since the Last Glacial Maximum. *Global Change Biology*, 28 3459-3479.
- Hapsari, K.A., Jennerjahn, T., Nugroho, S.H., Yulianto, E., Behling, H., 2022. The future of the past: Applications of paleoecological findings in peatland restoration in Indonesia. *PAGES Magazine*, 30, 14-15.

- Martins, G.S., Cordeiro, R.C., Turcq, B., Meyers, P.A., Mendez Millan, M., Moreira, L.S., Fontes, D., Rodrigues, R.A., Sifeddine, A., Behling, H., Bouloubassi, I.D., 2022. Late Quaternary hydrological changes in the southeastern Amazon Basin from *n*-alkane molecular and isotopic records in sediments of Saci Lake, Pará state (Brazil). *Global and Planetary Change*, 213, 103833. <https://doi.org/10.1016/j.gloplacha.2022.103833>
- Moraes, C.A. de, da Costa, M.L., Navarro, A.G., Negrão, L.B., Da Silva Valente, G.J., Pöllmann, H., Behling, H., 2022. Holocene vegetation, climate, sea-level oscillation, and human impact inferred from the archaeological site Cabeludo in Maranhão State, NE Brazil. *Palaeogeography, Palaeoclimatology, Palaeoecology* 608, 111292. [DOI: 10.1016/j.palaeo.2022.111292](https://doi.org/10.1016/j.palaeo.2022.111292)
- Moura, C.C.D., Setyaningsih, C.A., Li, K., Merk, M.S., Schulze, S., Raffiudin, R., Grass, I., Behling, H., Tschardt, T., Westphal, C., Gailing, O., 2022. Biomonitoring via DNA metabarcoding and light microscopy of bee pollen in rainforest transformation landscapes of Sumatra. *BMC Ecology and Evolution*, 22, 51. [DOI: 10.1186/s12862-022-02004-x](https://doi.org/10.1186/s12862-022-02004-x)
- Nguyen, C.H., Setyaningsih, C.A., Jahnk, S.L., Saad, A., Sabiham, S., Behling, H., 2022. Forest Dynamics and Agroforestry History since AD 200 in the Highland of Sumatra, Indonesia. *Forests* 13 (9), 1473. [DOI: 10.3390/f13091473](https://doi.org/10.3390/f13091473)
- Piacsek, P., Behling, H., Strikis, N.M., Ballalai, J.M., Venancio, I.M., Rodrigues, A.M.da S., Albuquerque, A.L.S., 2022. The response of vegetation to the hydroclimate changes of NE Brazil over the last 130 kyr. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 605, 111232.
- Piraquive-Bermúdez, D. and Behling, H., 2022. Holocene Paleoeecology in the Neotropical Savannas of Northern South America (Llanos of the Orinoquia Ecoregion, Colombia and Venezuela): What Do We Know and on What Should We Focus in the Future? *Frontiers in Ecology and Evolution*, 10, 824873. [DOI: 10.3389/fevo.2022.824873](https://doi.org/10.3389/fevo.2022.824873)
- Reinhardt AL, Kasper T, Lochner M, Bliedtner M, Krahn KJ, Habertzettl T, Shumilovskikh L, Rahobisoa J-J, Zech R, Favier C, Behling H, Bremond L, Daut G and Montade V (2022) Rain Forest Fragmentation and Environmental Dynamics on Nosy Be Island (NW Madagascar) at 1300 cal BP Is Attributable to Intensified Human Impact. *Frontiers in Ecology and Evolution*, 9, 783770. doi: 10.3389/fevo.2021.783770
- Schmidt, A.R., Steuernagel, L., Behling, H., Seyfullah, L.J., Beimforde, C., Sadowski, E-M., Rikkinen, J., Kaasalainen, U., 2022. Fossil evidence of lichen grazing from Palaeogene amber. *Review of Palaeobotany and Palynology*, 302, 104664.
- Totmaj, L.H., Alizadeh, K., Behling, H., 2022. Late Holocene paleoenvironmental changes inferred from multi-proxy studies of the Kholasht-Kouh Lake sediments in the Gilan mountains, northern Iran. *Journal of Paleolimnology*, 68, 361-374. <https://doi.org/10.1007/s10933-022-00252-x>
- Unkelbach, J., Behling, H., 2022. The reconstruction of Northwestern Holocene Mongolian fire history based on high-resolution multisite macro-charcoal analyses. *Frontiers in Earth Science*, 10, 959914. [DOI 10.3389/feart.2022.959914](https://doi.org/10.3389/feart.2022.959914)
- Wang, B., Hapsari, K.A., Horna, V., Zimmermann, R., Behling, H., 2022. Late Holocene peatland palm swamp (*aguajal*) development, carbon deposition and environment changes in the Madre de Dios region, southeastern Peru. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 594, 110955.
- Willkomm, N., Setyaningsih, C.A., Saad, A., Sabiham, S., Sauer, D., Behling, H., 2022. Late Holocene volcanic and human impacts on the mountain vegetation in central Sumatra, Indonesia. *Quaternary International*, 622, 77-88. [DOI: 10.1016/j.quaint.2022.02.016](https://doi.org/10.1016/j.quaint.2022.02.016)

2023

- Behling, H., 2023. Postglacial Pollen Records of South America. In Elias, S.A. and Mock, C.J., *Encyclopedia of Quaternary Science*, 156-163, pp. ISBN 9780444536426, <https://doi.org/10.1016/B978-0-444-53643-3.00197-7>
- Bodor, Z., Benedek, C., Behling, H., Kovacs, Z., 2023. Fusion of electronic tongue and NIRS for the detection of heat treatment of honey. *LWT - Food Science and Technology* 186 (2023) 115219
- Hapsari, K.A., Behling, H., 2023. Ursachen für die Entstehung von Tropenwaldbränden in Indonesien. *Geographische Rundschau*, 11, 18-22.
- Montade, V., Bremond, L., Teixeira, H., Kasper, T., Daut, G., Rasoamanana, E., Ramavovolona, P., Favier, C., Arnaud, F., Radespiel, U., Behling, H., (submitted). Montane rain forest dynamics under changes in climate and human impact during the past millennia in northern Madagascar. *Proceedings of the Royal Society B*
- Montes Condori, R.H., Ribas, L.C., Biagioni, S., and Behling, H., Bruno, O., 2023. Accurate and efficient pollen grain localization and identification with convolutional neural networks. *ESWA-D-23-06588* <http://dx.doi.org/10.2139/ssrn.4496794>
- Nguyen CH, Hapsari KA, Saad A, Sabiham S and Behling H (2023) Late Holocene riparian vegetation dynamics, environmental changes, and human impact in the Harapan forest of Sumatra, Indonesia. *Frontiers in Ecology and Evolution* 11, 1224160. doi: 10.3389/fevo.2023.1224160
- Pan, Y., Mu, G., Gao, C., Behling, H., Liu, D., Wu, G., 2023. Charcoal in Kunlun Mountains loess: Implications for environment change and human activity during the middle Holocene. *Frontiers in Earth Science*, 10:1030224. Doi: 10.3389/feart.2022.1030224
- Polgar, I.S., Zolitschka, B., Behling, H., 2023. Human Impact on vegetation at Lago di Vedana (Dolomites, Northern Italy) during the last seven centuries. *Anthropocene*, 44, 100401.
- Totmaj, L.H., Rasi, A., Neumann, K., Pirouzi, S., Alizadeh, K., Behling, H., 2023. Representation of the Hyrcanian forest (northern Iran) in modern pollen rain revealed by palynological and metabarcoding data. *Acta Palaeobotanica*, 63(1), 100–117.
- Wang, B, Horna, V., Heckmann, M., Hapsari, K.A., Zimmermann, R., Behling, H., 2023. Holocene environmental changes inferred from an oxbow lake in a *Mauritia* palm swamp (*aguajal*) in the Madre de Dios region, southeastern Peru. *Review of Palaeobotany and Palynology*, 312, 104863. <https://doi.org/10.1016/j.revpalbo.2023.104863>
- Wang, J., Zhou, X., Wang, S., Xu, H., Behling, H., Ye, J., Zheng, Y., Liu, J., Wu, Y., Zhao, K., Zhang, R., Li, X., 2023. C₄ expansion of Central Asia in the middle Miocene linked to the strengthening Indian monsoon. *Global and Planetary Change* 224, 104096.
- Silva, R.C., Corrêa, G.R., Arruda, D.M., Veloso, G.V., Filho, E.I., Cândido, H.G., Oliveira F.S. de, Gabriel Palucci Rosa, G.P., Behling, H., Schaefer, C.E.G.R., 2023. The Brazilian semiarid region over the past 21,000 years: Vegetation dynamics in small pulses of higher humidity. *Ecological Informatics*, 102259. DOI: 10.1016/j.ecoinf.2023.102259
- Zemp, D.C., Guerrero-Ramírez, N.R., Brambach, F., Darras, K., Grass, I. Potapov, I., Röhl, A., Arimond, I., Ballauff, J., Behling, H., Berkelmann, D., Biagioni, S., Buchori, D., Craven, R. Daniel, R., Gailing, O., Ellsäßer, F., Fardiansah, R., Hennings, N., Irawan, B., Khokthong, W., Krashevskaya, V., Krause, A., Kückes, J., Li, K., Lorenz, H., Maraun, M., Merk, M., Melo Moura, C.C., Mulyani, Y., Paterno, G., Pebrianti, H., Polle, A., Prameswari, D.A., Sachsenmaier, L., Scheu, S., Schneider, D., Fitta, S., Setyaningsih, C., Sundawati, L., Tschardtke, T., Wollni, M., Hölscher, D., Kreft, H., 2023. Tree islands enhance biodiversity and ecosystem functioning in oil palm landscapes. *Nature*. <https://doi.org/10.1038/s41586-023-06086-5>