**Anthropogenic Heathlands in Prehistoric Atlantic Europe: A Review and Future Prospects**

**Havananda Ombashi and Mette Løvschal**

**Supplementary Material**

***Table S1.*** *Heathland studies in archaeological or ecological publictions, listed by study area.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Author** | **Year** | **Archaeological** | **Ecology/Environment** |
| **International** |  |  |  |
| Conry | 1974 |  | *Soils and Fertilizers* |
| Fyfe et al. | 2013 |  | *Quaternary Science Reviews* |
| Lang | 1994 |  | Book |
| Nielsen et al. | 2012 |  | *Quaternary Science Reviews* |
| Overbeck | 1975 |  | Book |
| Stevenson & Thompson | 1993 |  | *The Holocene* |
| **Norway** |  |  |  |
| Bakka & Kaland | 1971 | *Norwegian Archaeological Review* |  |
| Hjelle et al. | 2010 |  | *Quaternary International* |
| Høgestol & Prøsch-Danielsen | 2006 |  | *Environmental Archaeology* |
| Kaland | 1979 | Book section |  |
| Kaland | 1986 |  | Book section |
| Kaland | 2014 | Book section |  |
| Løken | 1998 | Conference proceedings |  |
| Mehl & Hjelle | 2016 |  | *Vegetation History and Archaeobotany* |
| Myhre | 1998 | Book |  |
| Overland & Hjelle | 2009 |  | *Vegetation History and Archaeobotany* |
| Prøsch-Danielsen & Sandgren | 2003 |  | *Environmental Archaeology* |
| Prøsch-Danielsen & Selsing | 2009 | Book section |  |
| Prøsch-Danielsen & Simonsen | 2000 |  | *Vegetation History and Archaeobotany* |
| **Denmark** |  |  |  |
| Bornebusch & Milthers | 1935 |  | Book |
| Bottema et al. | 2005 |  | *Palaeohistoria* |
| Christiansen | 2001 |  | *Danish Journal of Geography* |
| Fægri | 1935 |  | Book |
| Fægri | 1944 |  | *Geologiska Föreningen i Stockholm Förhandlingar* |
| Hafsten | 1950 |  | *Stavanger Museum Årbok* |
| Holst & Rasmussen | 2013 | Book |  |
| Iversen | 1964 |  | *Journal of Animal Ecology* |
| Jonassen | 1950 |  | Book (dissertation) |
| Karg | 2008 |  | *Vegetation History and Archaeobotany* |
| Løvschal | 2021 | *Antiquity* |  |
| Meistrup-Larsen et al. | 2004 | Book |  |
| Nielsen & Odgaard | 2005 |  | *Review of Palaeobotany and Palynology* |
| Nielsen et al. | 2019 | *Journal of Archaeological Science* |  |
| Odgaard | 1985 | *Journal of Danish Archaeology* |  |
| Odgaard | 1992 |  | *The Holocene* |
| Odgaard | 1994 |  | *Nordic Journal of Botany* |
| Odgaard | 1999 |  | *Journal of Biogeography* |
| Odgaard & Rasmussen | 2000 |  | *Journal of Ecology* |
| Odgaard & Rostholm | 1987 | *Journal of Danish Archaeology* |  |
| **Germany** |  |  |  |
| Behre | 1967 |  | *Review of Palaeobotany and Palynology* |
| Behre | 1970 |  | *Probleme der Küstenforschung im südlichen Nordseegebiet* |
| Behre | 1976 |  | *Probleme der Küstenforschung im südlichen Nordseegebiet* |
| Behre | 1986 |  | *Offa* |
| Behre | 2000a |  | *Rundgespräche der Kommission für Ökologie der Bayrischen Akademie der Wisssenschaften* |
| Behre | 2000b | *Archäologisches Korrespondenzblatt* |  |
| Behre & Kučan | 1994 |  | Book |
| Behre & Kučan | 1999 |  | *Probleme der Küstenforschung im südlichen Nordseegebiet* |
| Dörfler | 1989 |  | *Probleme der Küstenforschung im südlichen Nordseegebiet* |
| Endtmann | 2002 |  | *Greifswalder Geographische Arbeiten* |
| Giesecke | 2000 |  | *Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin* |
| Gradmann | 1898 |  | Book |
| Herking | 2002 | *Archäologische Berichte aus Mecklenburg-Vorpommern* |  |
| Hübner | 2005 | Book |  |
| Hüppe | 1993 |  | *Berichte der Reinhold-Tüxen Gesellschaft* |
| Jahns | 1999 |  | *Gleditschia* |
| Jahns | 2006 |  | *Vegetation History and Archaeobotany* |
| Kirleis | 2003 |  | *Probleme der Küstenforschung im südlichen Nordseegebiet* |
| Müller | 1884 | Book |  |
| Oeggl et al. | 2005 |  | Book section |
| Wiethold & Lütjens | 2001 | Conference paper |  |
| **The Nethrlands** |  |  |  |
| Arnoldussen & de Vries | 2014 | *Palaeohistoria* |  |
| Arnoldussen & van der Linden | 2017 |  | *Vegetation History and Archaeobotany* |
| Bakels | 1988 |  | Book section (conference paper) |
| Casparie & Groenman-van Waateringe | 1980 |  | *Palaeohistoria* |
| de Klerk | 2005 |  | *Archiv für Naturschutz und Landschaftsforschung* |
| de Kort | 2002 | Book section |  |
| Doorenbosch | 2013 | Book |  |
| Doorenbosch & van Mourik | 2016 |  | *Soil* |
| Groenewoudt et al. | 2012 |  | *Landscape History* |
| Groenman-van Waateringe | 2012 | *Journal of Archaeology in the Low Countries* |  |
| Groenman-van Waateringe & Luijten | 1995 |  | *Mededelingen Rijks Geologische Dienst* |
| Groenman-van Waateringe & Spek | 2016 |  | *Palaeohistoria* |
| Polak | 1959 |  | *Acta Botanica Neerlandica* |
| Sevink et al. | 2013 |  | *Netherlands Journal of Geosciences* |
| Spek et al. | 2003 | *European Journal of Archaeology* |  |
| Stockmarr | 1975 |  | *Palaeohistoria* |
| Teunissen & Teunissen van Oorschot | 1980 |  | *Acta Botanica Neerlandica* |
| van Beek et al. | 2015 |  | *Netherlands Journal of Geosciences* |
| van Giffen | 1947 | Book |  |
| van Zeist | 1954 |  | *Palaeohistoria* |
| van Zeist | 1955 |  | *Acta Botanica Neerlandica* |
| van Zeist | 1959 |  | *Acta Botanica Neerlandica* |
| van Zeist | 1963 | *Archaeologia Belgica* |  |
| Waterbolk | 1954 | Book |  |
| Waterbolk | 1956 |  | *Palaeohistoria* |
| Waterbolk | 1964 | *Helinium* |  |
| Woldring et al. | 2007 | *Paleo-Aktueel* |  |
| Wolters | 1999 |  | *Gleditschia* |
| **Great Britain** |  |  |  |
| Barber | 1975 | *Proceedings of the Hampshire Field Club and Archaeology Society* |  |
| Barber et al. | 2003 | *Scottish Archaeological Internet Reports* |  |
| Barnatt | 2000 | *Derbyshire Archaeological Journal* |  |
| Barnosky | 1988 |  | *Proceedings of the Royal Irish Academy. Section B: Biological, Geological, and Chemical Science* |
| Bennett | 1983 |  | *New Phytologist* |
| Birks & Madsen | 1979 |  | *Journal of Ecology* |
| Birks & Williams | 1983 |  | *Proceedings of the Royal Society of Edinburgh, Section B: Biological Sciences* |
| Bradley | 1977 | *World Archaeology* |  |
| Bradley | 2002 | Book |  |
| Bradley & Fraser | 2010 | *Oxford Journal of Archaeology* |  |
| Bradshaw et al. | 2005 |  | *The Holocene* |
| Brown | 2016 | Dissertation |  |
| Brown et al. | 2005 |  | *Vegetation History and Archaeobotany* |
| Bunting | 1994 |  | *The Holocene* |
| Bunting | 1996 |  | *New Phytologist* |
| Chambers | 1983 |  | *Journal of Ecology* |
| Chambers et al. | 1999 |  | *Journal of Applied Ecology* |
| Chambers et al. | 2013 |  | *Biodiversity and Conservation* |
| Davies | 2016 |  | *Vegetation history and Archaeobotany* |
| Dimbleby | 1962 |  | Book |
| Dodson | 1990 |  | *Proceedings of the Royal Irish Academy. Section B: Biological, Geological, and Chemical Science.* |
| Edwards & Berridge | 1994 |  | *New Phytologist* |
| Edwards & Mithen | 1995 | *World Archaeology* |  |
| Edwards et al. | 2005 | *Journal of Archaeological Science* |  |
| Farrell | 2015 |  | *Vegetation History and Archaeobotany* |
| Feeser & O'Connell | 2009 |  | *Journal of Ecology* |
| Feeser & O'Connell | 2010 |  | *Vegetation History and Archaeobotany* |
| Fleming | 1978 | *Proceedings of the Prehistoric Society* |  |
| Fleming | 1983 | *Proceedings of the Prehistoric Society* |  |
| Fleming | 1984 |  | *Landscape History* |
| Fleming | 1987 | *Antiquity* |  |
| Fossitt | 1996 |  | *New Phytologist* |
| Fyfe et al. | 2003 |  | *Vegetation History and Archaeobotany* |
| Fyfe et al. | 2004 | *Journal of Archaeological Science* |  |
| Fyfe et al. | 2008 | *Journal of Archaeological Science* |  |
| Gaudig et al. | 2006 |  | *Mires and Peat* |
| Groves et al. | 2012 |  | *Vegetation History and Archaeobotany* |
| Hannon & Bradshaw | 1989 |  | *Journal of Biogeography* |
| Heath | 2004 | Dissertation |  |
| Hicks | 1971 |  | *New Phytologist* |
| Hobbs & Gimingham | 1984 |  | *Journal of Ecology* |
| Keatinge & Dickinson | 1979 |  | *New Phytologist* |
| Long | 1994 | Dissertation |  |
| Merryfield | 1977 |  | Dissertation |
| Mills et al. | 1995 | *Proceedings of the Society of Antiquaries of Scotland* |  |
| Moore et al. | 1996 | Book | *(Reviewed in Journal of Ecology)* |
| Mulder | 2000 |  | Dissertation |
| O'Sullivan | 1976 |  | *Journal of Biogeography* |
| Rippon et al. | 2006 | *Medieval Archaeology* |  |
| Simmons & Innes | 1988 |  | *Journal of Biogeography* |
| Simpson et al. | 1998 | *Journal of Archaeological Science* |  |
| Timpany et al. | 2022 | *Environmental Archaeology* |  |
| Tipping | 1995 | *Proceedings of the Society of Antiquaries of Scotland* |  |
| Tisdall et al. | 2013 |  | *Quaternary International* |
| Walker | 1957 | *Proceedings of the Prehistoric Society* |  |
| Walker | 1984 |  | *New Phytologist* |
| Wells et al. | 1997 |  | *Vegetation History and Archaeobotany* |
| Williamson et al. | 2017 |  | *Landscapes* |
| Yates | 1999 | *Oxford Journal of Archaeology* |  |
| Yates | 2007 | Book |  |
| **Ireland** |  |  |  |
| Coxon et al. | 2013 |  | Book section |
| Huang & O'Connell | 2000 |  | *Catena* |
| Jeličić & O'Connell | 1992 |  | *Vegetation History and Archaeobotany* |
| Jessen | 1949 |  | *Proceedings of Royal Irish Academy* |
| Mitchell | 1950 |  | *Proceedings of the Royal Irish Academy. Section B: Biological, Geological, and Chemical Science* |
| Mitchell | 1953 | *Proceedings of the Royal Irish Academy. Section C* |  |
| Mitchell | 1956 | *Journal of the Royal Society of Antiquaries of Ireland* |  |
| Mitchell | 1965 | *Journal of the Royal Society of Antiquaries of Ireland* |  |
| Molloy & O'Connell | 1990 |  | *Review of Palaeobotany and Palynology* |
| Mount et al. | 1999 | *Proceedings of the Prehistoric Society* |  |
| O’Connell | 2021 |  | *Review of Palaeobotany and Palynology* |
| O'Connell et al. | 1988 |  | Book section |
| O'Connell et al. | 2020 |  | *EG Quaternary Science Journal* |
| Parkes & Mitchell | 2000 |  | *Biology and Environment: Proceedings of the Royal Irish Academy* |
| Plunkett | 2009 |  | *Vegetation History and Archaeobotany* |
| Smith | 1959 |  | *New Phytologist* |
| Smith et al. | 1981 | *Proceedings of the Royal Irish Academy. Section C* |  |
| Verrill & Tipping | 2010 |  | *The Holocene* |
| **Total** | **166** | **57** | **109** |

**References cited in Table S1**

Arnoldussen, S. & de Vries, K.M. 2014. Of Farms and Fields: The Bronze Age and Iron Age Settlement and Celtic field at Hijken-Hijkerveld. *Palaeohistoria*, 55: 85–104.

Arnoldussen, S. & van der Linden, M. 2017. Palaeo-Ecological and Archaeological Analysis of Two Dutch Celtic Fields (Zeijen-Noordse Veld and Wekerom-Lunteren): Solving the Puzzle of Local Celtic Field Bank Formation. *Vegetation History and Archaeobotany*, 26: 551–70.

Bakels, C. 1988. Pollen from Plaggen Soils in the Province of North Brabant, The Netherlands. In: W. Groenman-van Waateringe & M. Robinson, eds. *Man-made Soils* (BAR International Series, 410). Oxford: BAR, pp. 35–54.

Bakka, E. & Kaland, P.1971. Early Farming in Hordaland, Western Norway. Problems and Approaches in Archaeology and Pollen Analysis. *Norwegian Archaeological Review*, 4: 1–17. <https://doi.org/10.1080/00293652.1971.9965136>

Barber, J., Collins, G., Crone, L., Duffy, A., Dugmore, A., Finlay, N. et al. 2003. Bronze Age Farms and Iron Age Farm Mounds of the Outer Hebrides. *Scottish Archaeological Internet Reports*, 3: 1-325. <https://doi.org/10.9750/issn.2056-7421.2003.3.1-325>

Barber, K.E. 1975. Vegetational History of the New Forest: a Preliminary Note. *Proceedings of the Hampshire Field Club and Archaeology Society*, 30: 5–8.

Barnatt, J. 2000. To Each Their Own: Later Prehistoric Farming Communities and their Monuments in the Peak. *Derbyshire Archaeological Journal*, 120: 1–86.

Barnosky, C.W. 1988. A Late-Glacial and Post-Glacial Pollen Record from the Dingle Peninsula, County Kerry. *Proceedings of the Royal Irish Academy. Section B: Biological, Geological, and Chemical Science*,88B: 23–37.

Behre, K.-E. 1967. The Late Glacial and Early Postglacial History of Vegetation and Climate in Northwestern Germany. *Review of Palaeobotany and Palynology*, 4: 149–61.

Behre, K.-E. 1970. Die Entwicklungsgeschichte der natürlichen Vegetation im Gebiet der unteren Ems und ihre Abhängigkeit von den Bewegungen des Meeresspiegels. *Probleme der Küstenforschung im südlichen Nordseegebiet,* 9: 13–47.

Behre, K.-E. 1976. Pollenanalytische Untersuchungen zur Vegetations- und Siedlungsgeschichte bei Flögeln und im Ahlenmoor (Elb-Weser-Winkel). *Probleme der Küstenforschung im südlichen Nordseegebiet*, 11: 101–18.

Behre, K.-E. 1986. Meeresspiegelverhalten und Besiedlung während der Zeit um Christi Geburt in den Nordseemarschen. *Offa*, 43: 45–53.

Behre, K.-E., 2000a. Der Mensch öffnet die Wälder – zur Entstehung der Heiden und anderer Offenlandschaften. *Rundgespräche der Kommission für Ökologie der Bayrischen Akademie der Wisssenschaften*, 18: 103–16.

Behre, K.-E., 2000b. Frühe Ackersysteme, Düngemethoden und die Entstehung der nordwestdeutschen Heiden. *Archäologisches Korrespondenzblatt*, 30: 135–51.

Behre, K.-E. & Kučan, D. 1994. *Die Geschichte der Kulturlandschaft und des Ackerbaus in der Siedlungskammer Flögeln, Niedersachsen, seit der Jungsteinzeit* (Probleme der Küstenforschung im südlichen Nordseegebiet, 21). Oldenburg: Isensee.

Behre, K.-E. & Kučan, D. 1999. Neue Untersuchungen am Aussendeichsmoor bei Sehestedt am Jadebusen. *Probleme der Küstenforschung im südlichen Nordseegebiet*, 26: 35–64.

Bennett, K.D. 1983. Devensian Late-Glacial and Flandrian Vegetational History at Hockham Mere, Norfolk, England. I: Pollen Percentages and Concentrations. *New Phytologist*, 95: 457–87.

Birks, H.J. & Madsen, B.J. 1979. Flandrian Vegetational History of Little Loch Roag, Isle of Lewis, Scotland. *Journal of Ecology*, 67: 825–42.

Birks, H.J.B. & Williams, W. 1983. Late-Quaternary Vegetational History of the Inner Hebrides. *Proceedings of the Royal Society of Edinburgh, Section B: Biological Sciences*, 83: 269–92.

Bornebusch, C.H. & Milthers, K. 1935. *Jordbundskort over Danmark/Soil Map of Denmark*. København: C.A. Reitzels.

Bottema, S., Cappers, R.T.J. & Kloosterman, A. 2005. The Pollen Signal of Early Neolithic Farming along a Habitation Gradient in northern Drenthe. *Paleaohistoria,* 45/46:37–57.

Bradley, R. 1977. Prehistoric Field Systems in Britain and North‐West Europe: A Review of Some Recent Work. *World Archaeology*, 9: 265–280.

Bradley, R. 2002. *The Past in Prehistoric Societies*. London: Taylor & Francis.

Bradley, R. & Fraser, E. 2010. Bronze Age Barrows on the Heathlands of Southern England: Construction, Forms and Interpretations. *Oxford Journal of Archaeology*, 29: 15–33.

Bradshaw, E.G., Rasmussen, P. & Odgaard, B.V. 2005. Mid-to Late-Holocene Land-Use Change and Lake Development at Dallund S0, Denmark: Synthesis of Multiproxy Data, Linking Land and Lake. *The Holocene*, 15: 1152–62.

Brown, A.G., Hatton, J., O’Brien, C.E., Selby, K.A., Langdon, P.G., Stuijts, I. & Caseldine, C. 2005. Vegetation, Landscape and Human Activity in Midland Ireland: Mire And Lake Records from the Lough Kinale-Derragh Lough Area, Central Ireland. *Vegetation History and Archaeobotany*, 14: 81–98.

Brown, H.J. 2016. Understanding the Later Prehistoric Field Systems of the Yorkshire Dales. Unpublished PhD dissertation, University of Bradford.

Bunting, M.J. 1994. Vegetation History of Orkney, Scotland: Pollen Records from Two Small Basins in West Mainland. *New Phytologist*, 128: 771–92.

Bunting, M.J. 1996. The Development of Heathland in Orkney, Scotland: Pollen Records from Loch of Knitchen (Rousay) and Loch of Torness (Hoy). *The Holocene*, 6: 193–212.

Casparie, W.A. & Groenman-van Waateringe, W. 1980. Palynological Analysis of Dutch barrows. *Palaeohistoria*, 22: 7–65.

Chambers, F.M. 1983. Three Radiocarbon-Dated Pollen Diagrams from Upland Peats North-West of Merthyr Tydfil, South Wales. *Journal of Ecology*, 71: 475–87.

Chambers, F.M., Mauquoy, D. & Todd, P.A. 1999. Recent Rise to Dominance of Molinia caerulea in Environmentally Sensitive Areas: New Perspectives from Palaeoecological Data. *Journal of Applied Ecology*, 36: 719–33.

Chambers, F.M., Cloutman, E.W., Daniell, J.R.G., Mauquoy, D. & Jones, P.S. 2013. Long-Term Ecological Study (Palaeoecology) to Chronicle Habitat Degradation and Inform Conservation Ecology: an Exemplar from the Brecon Beacons, South Wales. *Biodiversity and Conservation*, 22: 719–36.

Christiansen, S. 2001. Flows of Matter in a Traditional Heathland Farm about 1840. An Example from Northern West Jutland, Denmark. *Danish Journal of Geography* 101: 43–66.

Conry, M.J. 1974. Plaggen Soils. A Review of Man-Made Raised Soils. *Soils and Fertilizers*, 37: 319–26.

Coxon, P., Corcoran, R., Gibson, P. & McCarron, S. 2013. A Holocene Pollen Diagram from Lough Avullin, Clare Island, Western Ireland. In: D. Synnott, ed. *New Survey of Clare Island Volume 7: Plants and Fungi.*. Dublin: Royal Irish Academy, pp. 1–26**.**

Davies, A.L. 2016. Late Holocene Regime Shifts in Moorland Ecosystems: High Resolution Data from the Pennines, UK. *Vegetation History and Archaeobotany*, 25: 207–19.

de Klerk, P. 2005. A Pollen Diagram from the Ahlbecker Seegrund (Ueckermünder Heide, Vorpommern, NE Germany) from the Legacy of Franz Fukarek. *Archiv für Naturschutz und Landschaftsforschung*, 44: 93–108.

de Kort, J.-W. 2002. Schapen op de heide. Een vegetatiereconstructie van de omgeving van het vorstengraf van Oss in de Vroege IJzertijd. In: H. Fokkens H. & R. Jansen, eds. *2000 jaar bewoningsdynamiek. Brons- en IJzertijdbewoning in het Maas-Demer-Scheldegebied*. Leiden: Faculty of Archaeology, pp. 341–53.

Dimbleby, G.W. 1962. *The Development of British Heathlands and their Soils* (Oxford Forestry Memoirs, 23). Oxford: Clarendon Press.

Dodson, J.R. 1990. The Holocene Vegetation of a Prehistorically Inhabited Valley, Dingle Peninsula, Co. Kerry. *Proceedings of the Royal Irish Academy. Section B: Biological, Geological, and Chemical Science*, 90B: 151–74.

Doorenbosch, M., 2013. *Ancestral Heaths: Reconstructing the Barrow Landscape in the Central and Southern Netherlands*. Leiden: Sidestone Press.

Doorenbosch, M. & van Mourik, J.M. 2016. The Impact of Ancestral Heath Management on Soils and Landscapes: A Reconstruction Based on Paleoecological Analyses of Soil Records in the Central and Southeastern Netherlands. *Soil*, 2: 311–24.

Dörfler, W. 1989. Pollenanalytische Untersuchungen zur Vegetations- und Siedlungsgeschichte im Süden des Landkreises Cuxhaven, Niedersachsen. *Probleme der Küstenforschung im südlichen Nordseegebiet*, 17: 1–75.

Edwards, K.J. & Berridge, J.M. 1994. The Late‐Quaternary Vegetational History of Loch a’Bhogaidh, Rinns of Islay SSSI, Scotland. *New Phytologist*, 128: 749–69.

Edwards, K.J. & Mithen, S. 1995. The Colonization of the Hebridean Islands of Western Scotland: Evidence from the Palynological and Archaeological Records. *World Archaeology*, 26: 348–65.

Edwards, K.J., Whittington, G. & Ritchie, W. 2005. The Possible Role of Humans in the Early Stages of Machair Evolution: Palaeoenvironmental Investigations in the Outer Hebrides, Scotland. *Journal of Archaeological Science*, 32: 435–449.

Endtmann, E. 2002. Das “Herthamoor” – ein palynostratigraphisches Leitprofil für das Holozän der Insel Rügen. *Greifswalder Geographische Arbeiten*, 26: 143–47.

Fægri, K. 1935. *Quartärgeologische Untersuchungen im westlichen Norwegen II. Zur späquartären Geschichte Jærens*, Bergen: Grieg.

Fægri, K. 1944. On the Introduction of Agriculture in Western Norway. *Geologiska Föreningen i Stockholm Förhandlingar* 66: 449–62.

Farrell, M. 2015. Later Prehistoric Vegetation Dynamics and Bronze Age Agriculture at Hobbister, Orkney, Scotland. *Vegetation History and Archaeobotany*, 24: 467–86.

Feeser, I. & O’Connell, M. 2009. Fresh Insights into Long-Term Changes in Flora, Vegetation, Land Use and Soil Erosion in the Karstic Environment of the Burren, Western Ireland*. Journal of Ecology*, 97: 1083–100. <https://doi.org/10.1111/j.1365-2745.2009.01533.x>

Feeser, I. & O’Connell, M. 2010. Late Holocene Land-Use and Vegetation Dynamics in an Upland Karst Region Based on Pollen and Coprophilous Fungal Spore Analyses: An Example from the Burren, Western Ireland. *Vegetation History and Archaeobotany*, 19: 409–26.

Fleming, A. 1978. The Prehistoric Landscape of Dartmoor Part 1: South Dartmoor. *Proceedings of the Prehistoric Society*, 44: 97–123.

Fleming, A. 1983. The Prehistoric Landscape of Dartmoor Part 2: North and East Dartmoor. *Proceedings of the Prehistoric Society*, 49: 195–241.

Fleming, A. 1984. The Prehistoric Landscape of Dartmoor: Wider Implications. *Landscape History*, 6: 5–19.

Fleming, A. 1987. Coaxial Field Systems: Some Questions of Time and Space. *Antiquity*, 61: 188–202.

Fossitt, J.A. 1996. Late Quaternary Vegetation History of the Western Isles of Scotland. *New Phytologist*, 132: 171–96.

Fyfe, R.M., Brown, A.G. & Rippon, S.J. 2003. Mid-to Late-Holocene Vegetation History of Greater Exmoor, UK: Estimating the Spatial Extent of Human-Induced Vegetation Change. *Vegetation History and Archaeobotany*, 12: 215–32.

Fyfe, R.M., Brown, A.G. & Rippon, S.J. 2004. Characterising the Late Prehistoric,‘Romano-British’and Medieval Landscape, and Dating the Emergence of a Regionally Distinct Agricultural System in South West Britain. *Journal of Archaeological Science*, 31: 1699–714.

Fyfe, R.M., Brück, J., Johnston, R., Lewis, H., Roland, T.P. & Wickstead, H. 2008. Historical Context and Chronology of Bronze Age Land Enclosure on Dartmoor, UK. *Journal of Archaeological Science*, 35: 2250–61. <https://doi.org/10.1016/j.jas.2008.02.007>

Fyfe, R.M., Twiddle, C., Sugita, S., Gaillard, M.-J., Barratt, P., Caseldine, C.J. et al. 2013. The Holocene Vegetation Cover of Britain and Ireland: Overcoming Problems of Scale and Discerning Patterns of Openness. *Quaternary Science Reviews*, 73: 132–48.

Gaudig, G., Couwenberg, J. & Joosten, H. 2006. Peat Accumulation in Kettle Holes: Bottom Up or Top Down. *Mires and Peat*, 1: 1–16.

Giesecke, T. 2000. Pollenanalytische und sedimentchemische Untersuchungen zur Landschaftsgeschichte am Großen Treppelsee (Ost-Brandenburg, Deutschland). *Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin*, 39: 89–112.

Gradmann, R. 1898. Das *Pflanzenleben der Schwäbischen Alb*. Tübingen**:** Schwäbischer Albverein.

Groenewoudt, B., van Haaster, H., van Beek, R. & Brinkkemper, O. 2007. Towards a Reverse Image. Botanical Research into the Landscape History of the Eastern Netherlands (1100 bc–ad 1500). *Landscape History*, 29: 17–33.

Groenman-van Waateringe, W. 2012. Celtic Field Banks and Early Medieval Rye Cultivation. *Journal of Archaeology in the Low Countries*, 4: 151–8.

Groenman-van Waateringe, W. & Luijten, H. 1995. Pollen Analysis of two Plaggen Soils in the Province of North Brabant, The Netherlands. *Mededelingen Rijks Geologische Dienst*, 52: 331–42.

Groenman-van Waateringe, W. & Spek, T. 2016. Heathland and Palynology of Prehistoric Barrows. Reflections on the Interrelation between Soil Formation and Pollen Infiltration. *Palaeohistoria*, 57: 55–62.

Groves, J.A., Waller, M.P., Grant, M.J. & Schofield, J.E. 2012. Long-Term Development of a Cultural Landscape: The Origins and Dynamics of Lowland Heathland in Southern England. *Vegetation History and Archaeobotany*, 21: 453–70.

Hafsten, U. 1950. Pollenanalytisk datering (Myrfunn av horn fra Taksdal i Time på Jæren). *Stavanger Museum Årbok*, 60: 42–58.

Hannon, G.E., & Bradshaw, H.W.R. 1989. Recent Vegetation Dynamics on Two Connemara Lake Islands, Western Ireland. *Journal of Biogeography*,16: 75–81.

Heath, A.-M. 2004. Prehistoric Settlement and Agriculture on the Eastern Moors of the Peak District. Unpublished PhD dissertation, University of Sheffield.

Herking, C. 2002. Der menschliche Einfluß auf die Vegetation im Umkreis des Ahlbecker Sees und des Kleinen Faulen Sees, Kreis Uecker-Randow, im Spiegel pollenanalytischer Untersuchungen. *Archäologische Berichte aus Mecklenburg-Vorpommern,* 9: 16–25.

Hicks, S.P. 1971. Pollen-Analytical Evidence for the Effect of Prehistoric Agriculture on the Vegetation of North Derbyshire. *New Phytologist*, 70: 647–67.

Hjelle, K.L., Halvorsen, L.S. & Overland, A. 2010. Heathland Development and Relationship between Humans and Environment along the Coast of Western Norway through Time. *Quaternary International*, 220: 133–16. <https://doi.org/10.1016/j.quaint.2009.09.023>

Hobbs, R.J. & Gimingham, C.H. 1984. Studies on Fire in Scottish Heathland Communities II: Post-Fire Vegetation Development. *Journal of Ecology,* 72: 585–610.

Høgestol, M. & Prosch-Danielsen, L. 2006. Impulses of Agro-Pastoralism in the 4th and 3rd Millennia bc on the South-Western Coastal Rim of Norway. *Environmental Archaeology*, 11: 19–34. <https://doi.org/10.1179/174963106x97034>.

Holst, M.K. & Rasmussen, M. 2013. *Skelhøj and the Bronze Age Barrows of Southern Scandinavia*. Højbjerg : Jysk Arkæologisk Selskab & Nationalmuseet.

Huang, C.C. & O'Connell, M. 2000. Recent Land-Use and Soil-Erosion History within a Small Catchment in Connemara, Western Ireland: Evidence from Lake Sediments and Documentary Sources. *CATENA*, 41: 293–335, <https://doi.org/10.1016/S0341-8162(00)00095-3>

Hübner, E. 2005. *Jungneolithische Gräber auf der Jütischen Halbinsel: typologische und chronologische Studien zur Einzelgrabkultur*. København: Det Kongelige Nordiske Oldskriftselskab.

Hüppe, J. 1993. Entwicklung der Tieflands-Heidelandschaften Mitteleuropas in geobotanisch-vegetationsgeschichtlicher Sicht. *Berichte der Reinhold-Tüxen Gesellschaft,* 5: 49–75.

Iversen, J. 1964. Retrogressive Vegetational Succession in the Post-Glacial. *Journal of Animal Ecology*, 33: 59–70. <https://doi.org/10.2307/2430>

Jahns, S. 1999. Ein holozänes Pollendiagramm vom Kleinen Mochowsee, nördliche Niederlausitz. *Gleditschia*, 27: 45–56. <https://doi.org/10.1594/PANGAEA.729669>

Jahns, S. 2006. Palynological Investigations into the Late Pleistocene and Holocene History of Vegetation and Settlement at the Löddigsee, Mecklenburg, Germany. *Vegetation History and Archaeobotany* 16: 157–69.

Jeličić, L. & O’Connell, M. 1992. History of Vegetation and Land Use from 3200 bp to the Present in the North-West Burren, a Karstic Region of Western Ireland. *Vegetation History and Archaeobotany,* 1: 119–40.

Jessen, K. 1949. Studies in Late Quaternary Deposits and Flora‐History of Ireland. *Proceedings of Royal Irisch Academy*, 52: 88–279.

Jonassen, H. 1950. *Recent Pollen Sedimentation and Jutland Heath Diagrams*. Copenhagen: Munksgaard.

Kaland, P.E. 1979. Landskapsutvikling og bosettingshistorie i Nordhordalands lyngheiområde,.In: R. Fladby & I. Sandnes, eds. *På leiting etter den eldste gården*. Oslo: Universitetsforlaget, pp. 41–47.

Kaland, P.E. 1986. The Origin and Management of Norwegian Coastal Heaths as Reflected by Pollen Analysis. In: K.E. Behre, ed. *Anthropogenic Indicators in Pollen Diagrams*. Rotterdam: Balkema, pp. 19–36.

Kaland, P.E. 2014: Heathlands – Land-Use, Ecology and Vegetation History as a Source for Archaeological Interpretations. In: H.C. Gulløv, ed. *Northern Worlds, Landscapes, Interpretations and Dynamics*. Copenhagen: National Museum of Denmark, pp. 19–47.

Karg, S. 2008. Direct Evidence of Heathland Management in the Early Bronze Age (14th Century bc) from the Grave-Mound Skelhøj in Western Denmark. *Vegetation history and Archaeobotany* 17: 41–49.

Keatinge, T.H. & Dickson, J.H. 1979. Mid‐Flandrian Changes in Vegetation on Mainland Orkney. *New Phytologist*, 82: 585–612.

Kirleis, W. 2003. Vegetationsgeschichtliche und archäobotanische Untersuchungen zur Landwirtschaft und Umwelt im Bereich der prähistorischen Siedlungen bei Rullstorf, Ldkr. Lüneburg. *Probleme der Küstenforschung im südlichen Nordseegebiet*, 28: 65–132.

Lang, G. 1994. *Quartäre Vegetationsgeschichte Europas: Methoden und Ergebnisse*. Jena: Gustav Fischer.

Løken, T. ed. 1998. *Bronsealder i Norden, regioner og interaksjon.* Stavanger: Arkeologisk Museum.

Long, D.J. 1994. Prehistoric Field Systems and the Vegetation Development of the Gritstone Uplands of the Peak District. Unpublished PhD dissertation, University of Keele.

Løvschal, M. 2021. Anthropogenic Heathlands: Disturbance Ecologies and the Social Organisation of Past Super-Resilient Landscapes. *Antiquity*, 95: e14. <https://doi.org/10.15184/aqy.2021.46>

Mehl, I.K. & Hjelle, K.L. 2016. From Deciduous Forest to Open Landscape: Application of New Approaches to Help Understand Cultural Landscape Development in Western Norway. *Vegetation History and Archaeobotany*, 25: 153–76.

Meistrup Larsen, L., Kramer, F.E. & Nordsjællandsk Folkemuseum, 2004. *Lillevang – Beretning for arkæologiske prøveudgravninger og udgravninger i år 2003 på matrikel 10a af Asminderød by og sogn.* Hillerød: Nordsjællandsk Folkemuseum.

Merryfield, D.L. 1977. Palynological and stratigraphical studies on Exmoor. Unpublished PhD dissertation, King’s College London.

Mills, C., Crone, A., Edwards, K., & Whittington, G. 1995. The Excavation and Environmental Investigation of a Sub-Peat Stone Bank Near Loch Portain, North Uist, Outer Hebrides. *Proceedings of the Society of Antiquaries of Scotland*, 124: 155–71.

Mitchell, G.F. 1950. Studies in Irish Quaternary Deposits: No. 7. *Proceedings of the Royal Irish Academy. Section B: Biological, Geological, and Chemical Science*, 53: 111–206.

Mitchell, G.F. 1953. A Pollen-Diagram from Lough Gur, County Limerick (Studies in Irish Quaternary Deposits: No. 9). *Proceedings of the Royal Irish Academy. Section C: Archaeology, Celtic Studies, History, Linguistics, Literature*, 56: 481–88.

Mitchell, G.F. 1956. An Early Kitchen-Midden at Sutton, Co. Dublin . *Journal of the Royal Society of Antiquaries of Ireland*, 86: 1–26.

Mitchell, G.F. 1965. Littleton Bog, Tipperary: An Irish Agricultural Record. *Journal of the Royal Society of Antiquaries of Ireland*, 95: 121–32.

Molloy, K. & O’Connell, M. 1990. Palaeoecological Investigations towards the Reconstruction of Woodland and Land-Use History at Lough Sheeauns, Connemara, Western Ireland. *Review of Palaeobotany and Palynology*, 67: 75–113.

Moore, P.D., Gilbertson, D., Kent, M. & Grattan, J. eds. 1996. *The Outer Hebrides: The Last 14,000 Years*. Sheffield: Sheffield Academic Press (reviwed by P.D. Moore, 1997, in *Journal of Ecology*, 85: 399–400).

Mount, C. D.A. Weir., B. Collins., P. Lynch., A. O'Sullivan. & M. Deevy. 1999. Excavation and Environmental Analysis of a Neolithic Mound and Iron Age Barrow Cemetery at Rathdooney Beg, County Sligo, Ireland. *Proceedings of the Prehistoric Society*, 65: 337–71.

Mulder, Y.L.A. 2000. Aspects of Vegetation and Settlement History in the Outer Hebrides, Scotland. Unpublished PhD dissertation, University of Sheffield.

Müller, S. 1884. *Ursprung und erste Entwicklung der europäischen Bronzecultur, beleuchtet durch die ältesten Bronzefunde im südöstlichen Europa* (Archiv für Anthropologie 15). Braunschweig: Vieweg.

Myhre, L.N. 1998. *Historier fra en annen virkelighet : fortellinger om bronsealderen ved Karmsundet - Nasjonalbiblioteket*. Stavanger: Arkeologisk Museum.

Nielsen, A.B. & Odgaard, B.V. 2005. Reconstructing Land Cover from Pollen Assemblages from Small Lakes in Denmark. *Review of Palaeobotany and Palynology*, 133: 1–21.

Nielsen, A.B., Giesecke, T., Theuerkauf, M., Feeser, I., Behre, K.-E., Beug, H.-J., et al. 2012. Quantitative Reconstructions of Changes in Regional Openness in North-Central Europe Reveal New Insights into Old Questions. *Quaternary Science Reviews*, 47: 131–49. <https://doi.org/10.1016/j.quascirev.2012.05.011>

Nielsen, N.H., Kristiansen, S.M., Ljungberg, T., Enevold, R. & Løvschal, M. 2019. Low and Variable: Manuring Intensity in Danish Celtic Fields. *Journal of Archaeological Science: Reports*, 27: 101955. <https://doi.org/10.1016/j.jasrep.2019.101955>

O’Connell, M. 2021. Post-glacial Vegetation and Landscape Change in Upland Ireland with Particular O’Connell, M. 2021. Post-glacial vegetation and landscape change in upland Ireland with particular reference to Mám Éan, Connemara. *Review of Palaeobotany and Palynology*, 290: 104377. <https://doi.org/10.1016/j.revpalbo.2021.104377>

O’Connell, M., Molloy, K. & Bowler, M. 1988. Post-Glacial Landscape Evolution in Connemara, Western Ireland with Particular Reference to Woodland History. In: H.H. Birks, H.J.B. Birks, P.E. Kaland, & D. Moe, eds. The Cultural Landscape – Past, Present and Future. Cambridge: Cambridge University Press, pp. 267–87.

O’Connell, M., Molloy, K. & Jennings, E. 2020. Long-Term Human Impact and Environmental Change in Mid-Western Ireland, with Particular Reference to Céide Fields: An Overview. *E & G Quaternary Science Journal,* 69: 1–32.

Odgaard, B.V. 1985. A Pollen Analytical Investigation of a Bronze Age and Pre-Roman Iron Age Soil Profile from Grøntoft, Western Jutland. *Journal of Danish Archaeology*, 4: 121–28. <https://doi.org/10.1080/0108464X.1985.10589941>

Odgaard, B.V. 1992. The Fire History of Danish Heathland Areas as Reflected by Pollen and Charred Particles in Lake Sediments. *The Holocene*, 2: 218–26.

Odgaard, B.V. 1994. The Holocene Vegetation History of Northern West Jutland, Denmark. *Nordic Journal of Botany*, 14: 546. <https://doi.org/10.1111/j.1756-1051.1994.tb00649.x>

Odgaard, B.V. 1999. Fossil Pollen as a Record of Past Biodiversity. *Journal of Biogeography*, 26: 7–17. <https://doi.org/10.1046/j.1365-2699.1999.00280.x>

Odgaard, B.V. & Rasmussen, P. 2000. Origin and Temporal Development of Macro-Scale Vegetation Patterns in the Cultural Landscape of Denmark. *Journal of Ecology,* 88: 733–78.

Odgaard, B.V. & Rostholm, H. 1987. A Single Grave Barrow at Harreskov, Jutland. *Journal of Danish Archaeology*, 6: 87–100. <https://doi.org/10.1080/0108464X.1987.10589979>

Oeggl, K., Kofler, W. & Wahlmüller-Oeggl, N. 2005. Pollenanalytische Untersuchungen zur Vegetations- und Siedlungsgeschichte im Montafon. In: J. Rollinger & R. Rollinger, eds. *Montafon 1: Mensch - Geschichte - Naturraum. Die lebensweltlichen Grundlagen*. Schruns: Montafoner Museen Heimatschutzverein Montafon, pp. 183–207.

O’Sullivan, P.E. 1976. Pollen Analysis and Radiocarbon Dating of a Core from Loch Pityoulish, Eastern Highlands of Scotland. *Journal of Biogeography*, 3: 293–302.

Overbeck, F. 1975. *Botanisch-Geologische Moorkunde.* Neumünster: Wachholtz.

Overland, A. & Hjelle, K.L. 2009. From Forest to Open Pastures and Fields: Cultural Landscape Development in Western Norway Inferred from Two Pollen Records Representing Different Spatial Scales of Vegetation. *Vegetation History and Archaeobotany*, 18: 459–76. <https://doi.org/10.1007/s00334-009-0225-7>

Parkes, H.M. & Mitchell, F.J. 2000. Vegetation History at Clonmacnoise, Co. Offaly. *Biology and Environment: Proceedings of the Royal Irish Academy*, 100B: 35–40

Plunkett, G. 2009. Land-Use Patterns and Cultural Change in the Middle to Late Bronze Age in Ireland: Inferences from Pollen Records. *Vegetation History and Archaeobotany*, 18: 273–95.

Polak, B. 1959. Palynology of the Uddeler Meer. A Contribution to our Knowledge of the Vegetation and of the Agriculture in the Northern Part of the Veluwe in Prehistoric and Early Historic Times. *Acta Botanica Neerlandica*, 8: 547–71.

Prøsch-Danielsen, L. & Sandgren, P. 2003. The Use of Pollen, Magnetic and Carbon Analyses in Identifying Agricultural Activity and Soil Erosion from the Neolithic to the Iron Age: A Study of Two Lake Sediment Cores from Jæren, South-Western Norway. *Environmental Archaeology,* 8: 33–50.

Prøsch-Danielsen, L. & Selsing, L. 2009. *Aeolian Activity during the Last 9200 Calendar Years bp along the Southwestern Coastal Rim of Norway*. Stavanger: Arkeologisk Museum.

Prøsch-Danielsen, L. & Simonsen, A. 2000. Palaeoecological Investigations Towards the Reconstruction of the History of Forest Clearances and Coastal Heathlands in South-Western Norway. *Vegetation History and Archaeobotany*, 9: 189–204. <https://doi.org/10.1007/BF01294634>

Rippon, S.J., Fyfe, R.M. & Brown, A.G. 2006. Beyond Villages and Open Fields: The Origins and Development of a Historic Landscape Characterised by Dispersed Settlement in South-West England. *Medieval Archaeology*. 50: 31–70.

Sevink, J., Koster, E.A., van Geel, B. & Wallinga, J. 2013. Drift Sands, Lakes, and Soils: The Multiphase Holocene History of the Laarder Wasmeren Area Near Hilversum, The Netherlands. *Netherlands Journal of Geosciences*, 92: 243–66.

Simmons, I.G. & Innes, J.B. 1988. Late Quaternary Vegetational History of the North York Moors X. Investigations on East Bilsdale Moor. *Journal of Biogeography*, 15: 299–324.

Simpson, I., Dockrill, S., Bull, I., & Evershed, R. 1998. Early Anthropogenic Soil Formation at Tofts Ness, Sanday, Orkney. *Journal of Archaeological Science,* 25: 729–46.

Smith, A.G. 1959. The Mires OF South Western Westmorland: Stratigraphy and Pollen Analysis. *New Phytologist*, 58: 105–27.

Smith, A.G. Gaskell-Brown, C., Goddard, I.C., Pearson, G.W., Dresser, P.Q. & Goddard, A. 1981. Archaeology and Environmental History of a Barrow at Pubble, Loughermore Townland, County Londonderry. *Proceedings of the Royal Irish Academy. Section C: Archaeology, Celtic Studies, History, Linguistics, Literature*, 81: 29–66.

Spek, T., Groenman-van Waateringe, W., Kooistra, M. & Bakker, L. 2003. Formation and Land-Use History of Celtic Fields in North-West Europe – An Interdisciplinary Case Study at Zeijen, The Netherlands. *European Journal of Archaeology*, 6: 141–73.

Stevenson, A.C. & Thompson, D.B.A. 1993. Long-Term Changes in the Extent of Heather Moorland in Upland Britain and Ireland: Palaeoecological Evidence for the Importance of Grazing. *The Holocene*, 3: 70–76.

Stockmarr, J. 1975. Retrogressive Forest Development, as Reflected in a Mor Pollen Diagram from Mantingerbos, Drenthe, The Netherlands. *Palaeohistoria*, 17: 37–51.

Teunissen, D. & Teunissen-van Oorschot, H. 1980. The History of the Vegetation in SW Connemara (Ireland). *Acta Botanica Neerlandica*, 29: 285–306.

Timpany, S., Mighall, T, Foster, I, Martinez Cortizas, A, Owen, O, Krus, A & Kamerling, I. 2022. Later Prehistoric and Norse Communities in the Northern Isles: Multi-Proxy Environmental Investigations on Orkney. *Environmental Archaeology*, 27: 146–67 <https://doi.org/10.1080/14614103.2020.1803014>

Tipping, R. 1995. The Form and the Fate of Scotland’s Woodlands. *Proceedings of the Society of Antiquaries of Scotland*, 124: 1–54.

Tisdall, E.W., McCulloch, R.D., Sanderson, D.C.W., Simpson, I.A. & Woodward, N.L. 2013. Living with Sand: A Record of Landscape Change and Storminess during the Bronze and Iron Ages Orkney, Scotland. *Quaternary International*, 308: 205–15.

van Beek, R., Gouw-Bouman, M. & Bos, J.A.A. 2015. Mapping Regional Vegetation Developments in Twente (the Netherlands) since the Late Glacial and Evaluating Contemporary Settlement Patterns. *Netherlands Journal of Geosciences*, 94: 229–55.

van Giffen, A.E., 1947. *Oudheidkundig bodemonderzoek in Nederland –een kwart eeuw: gedenkboek A.E. van Giffen*. Meppel: Boom & Zoon.

van Zeist, W. 1954. A Contribution to the Problem of the So-Called Grenzhorizont. *Palaeohistoria*, 3: 220–24.

van Zeist, W. 1955. Pollen Analytical Investigations in the Northern Netherlands with Special Reference to Archaeology. *Acta Botanica Neerlandica*, 4: 1–81.

van Zeist, W. 1959. Studies on the Post-Boreal Vegetational History of South-Eastern Drenthe (Netherlands). *Acta Botanica Neerlandica*, 8: 156–84.

van Zeist, W. 1963. Het stuifmeelonderzoek van de grafheuvel te Mol. *Archaeologia Belgica* *,*72: 20–22.

Verrill, L. & Tipping, R. 2010. Use and Abandonment of a Neolithic Field System at Belderrig, Co. Mayo, Ireland: Evidence for Economic Marginality. *The Holocene,* 20: 1011–21. [https://doi.org/10.1177/0959683610369503](https://doi.org/10.1177%2F0959683610369503)

Walker, D. 1957. A Site at Stump Cross, near Grassington, Yorkshire, and the Age of the Pennine Microlithic Industry. *Proceedings of the Prehistoric Society*, 22: 23–28.

Walker, M.J.C. 1984. A Pollen Diagram from St Kilda, Outer Hebrides, Scotland. *New Phytologist*, 97: 99–113.

Waterbolk, H.T. 1954. *De praehistorische mens en zijn milieu*. Koninklijke: Van Gorcum.

Waterbolk, H.T. 1956. Pollen Spectra from Neolithic Grave Monuments in the Northern Netherlands. *Palaeohistoria*, 5: 39–51.

Waterbolk, H.T. 1964. The Bronze Age Settlement of Elp. *Helinium*, 4: 97–131.

Wells, C., Huckerby, E., & Hall, V. 1997. Mid-and Late-Holocene Vegetation History and Tephra Studies at Fenton Cottage, Lancashire, UK. *Vegetation History and Archaeobotany*, 6: 153–66.

Wiethold, J. & Lütjens, I. 2001. Paläeokologische Untersuchungen an jahresgeschichteten Sedimenten aus dem Belauer See, Kr. Pion, Schleswig-Holstein. Ergebnisse zur Vegetations- und Siedlungsgeschichte des westlichen Ostholsteins von der vorromischen Eisenzeit bis zum hohen Mittelalter. In: P.Schauer, ed. *Paläoökosystemforschung und Geschichte* (Regensburger Beiträge zur Prähistorischen Archäologie, 7*)*. Regensburg: Universität Regensburg, pp. 239–57.

Williamson, T., Bumstead, J., Frost, J., Owens, L. & Pease, S. 2017. The Landscape Archaeology of Knettishall Heath, Suffolk and its Implications. *Landscapes*, 18: 161–77.

Woldring, H., Boekema, Y., Cleveringa, P., de Wolf, H., Schokker, J. & Bottema-Mac Gillavry, J.N. 2007. Het Messchenveld (Dr.): ook palaeobotanisch, archeologisch en geologisch een vijf-sterrenlokatie. *Paleo-Aktueel*, 18: 58–68.

Wolters, S. 1999. Spät-und postglaziale Vegetationsentwicklung im Bereich der Fercher Berge südwestlich von Potsdam. *Gleditschia*, 27: 25–44.

Yates, D.T. 1999. Bronze Age Field Systems in the Thames Valley. *Oxford journal of Archaeology*, 18: 157–70.

Yates, D.T. 2007. *Land, Power and Prestige: Bronze Age Field Systems in Southern England*. Oxford: Oxbow Books.