

MA module

Pollen Project

You are asked to undertake an assessment of the pollen from a sequence of sediments from Tan-y-Bwlch in Ceredigion, West Wales.

Your report will be based on the pollen diagram you have produced as a result of the analysis you have carried out. After a description of the vegetation changes represented in the diagram your interpretation should include a discussion of the reasons for the environmental changes reflected in the pollen record. In addition, the evidence for environmental change evident in the pollen record from Tan-y-Bwlch should be compared with that from other diagrams in the wider region.

The written report will form the basis for assessment. This will be in the form of an assessment report for a developer or archaeological unit. In order to complete this task students will be required to show analytical skills and demonstrate report writing skills.

The report forms one part of the portfolio and will be 2500 words (or equivalence).

References

Bell, M. & Walker, M.J.C. 2005 ***Late Quaternary Environmental Change: Physical and Human Perspectives***. 2nd edition, Addison-Wesley-Longman, London.

Buckley, S.L. & Walker, M.J.C. The Flandrian vegetation history of upland mid-Wales: Bryniau Pica, in M.J.C. Walker and D. McCarroll (eds.), ***The Quaternary of West Wales: Field Guide***. Quaternary Research Association, London, 93-102.

Caseldine, A.E. 2013a Pollen analysis at Craig y Dullfan and Banc Wernwgan and other recent palaeoenvironmental studies in Wales. ***Archaeologia Cambrensis* 162**, 275-307.

Caseldine, A.E., Griffiths, C.J. & Crowther, J. 2012 Palaeoenvironmental investigations, in N. Page, G. Hughes, R. Jones and K. Murphy, Excavations at Erglodd, Llangynfelyn, Ceredigion: prehistoric/Roman lead smelting site and medieval trackway, ***Archaeologia Cambrensis* 161**, 313-343.

www.cambrian-news.co.uk/article.cfm?...History%20of%20Pen%20Dinas%20may%20...

<https://coflein.gov.uk/en/site/92236/details/pendinas-hillfort-aberystwyth>

Lynch, F., Aldhouse-Green, S. and Davies, J.L. 2000 ***Prehistoric Wales***. Sutton Publishing, Stroud.

Godwin, H. & Newton, L. 1938 The submerged forest at Borth and Ynyslas, Cardiganshire: data for the study of post-glacial history. ***New Phytologist* 37**, 333-344.

Grimm, E.C. 1991-93 ***TILIA***. Springfield, Illinois State Museum

Grimm, E.C. 2004 ***TGView (version 2.0.2)***. Springfield, Illinois State Museum, Research and Collections Center.

Heyworth, A., Kidson, C. & Wilks, P. 1985 Late-glacial and Holocene sediments at Clarach Bay, near Aberystwyth. ***Journal of Ecology* 73**, 459-480.

Hughes, P.D.M., Morriss, S.H., Schulz, J. and Barber, K.E. 2001 Mire development and human impact in the Teifi Valley: evidence from the Tregaron (Cors Caron) peatlands, in M.J.C. Walker and D. McCarroll (eds.), ***The Quaternary of West Wales field guide***. Quaternary Research Association 76-92.

Lomas-Clarke, S.H. and Barber, K.E. 2007 Human impact signals from peat bogs – a combined palynological and geochemical approach. ***Vegetation History and Archaeobotany* 16**, 419-429.

Lowe, J.J. & Walker M.J.C. 2014 ***Reconstructing Quaternary Environments***. 3rd edition. Addison-Wesley-Longman, London.

Mighall, T.M. 2013 ***A Further Palaeoenvironmental Assessment of the Blanket Peat Surrounding the Source of the Severn, Plynlimon, and its Wider Context***. Unpublished Report, Metal Links Project/RCAHMW

Mighall, T.M., Timberlake, S., Grattan, J.P., 2012 ***A palaeoecological assessment of the blanket peat surrounding the Source of the Severn, Plynlimon***. Unpublished report, Metal Links Project/RCAHMW

Mighall, T.M., Timberlake, S., Martínez-Cortizas, A., Silva-Sánchez and Foster, I.D.L. 2017 Did prehistoric and Roman mining and metallurgy have a significant impact on vegetation? ***Journal of Archaeological Science: Reports* 11**, 613-625.

Moore, P. D., Webb, J. A., and Collinson, M. E., 1991. ***Pollen Analysis***. 2nd edition, Blackwell Scientific Publications, Oxford.

Roberts, N. 2014 ***The Holocene***. 3rd edition. Wiley Blackwell

Taylor, J.A. 1973 Chronometers and chronicles: a study of palaeoenvironments in west central Wales. ***Progress in Geography* 5**, 247-334.

Walker, M.J.C., Buckley, S.L. and Caseldine, A.E. 2001 Landscape change and human impact in west Wales during the Lateglacial and Flandrian, in M.J.C. Walker and D. McCarroll (eds.), ***The Quaternary of West Wales: Field Guide***. Quaternary Research Association, London, 17-29.

Walker, M.J.C. and McCarroll, D. (eds.), ***The Quaternary of West Wales: Field Guide***. Quaternary Research Association, London.