

Paleocommunities: A Case Study From The Silurian And Lower Devonian

Précis of Palaeozoic Palaeontology in the Southern Tablelands Region of New South Wales

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This compilation of all known palaeontological data from Lower Ordovician to Upper Devonian rocks exposed in the Boorowa-Crookwell-Taralga-Yass-Goulburn-Braidwood region of southeastern New South Wales, draws on a voluminous scientific literature of more than 270 papers and reports. Within this region are some of the most famous and intensively studied fossiliferous localities in the state, particularly in the Yass-Taemas area. Revised faunal lists provide the basis for new or refined age determinations, resulting in improved biostratigraphic correlation amongst the 64 formations and their members that yield fossils in the region. Early Silurian (early Wenlock) conodonts found in allochthonous limestones of the Hawkins Volcanics, the lowermost unit of the Yass Basin succession, are documented, as are representative conodonts from allochthonous limestone of late Silurian (Ludlow) age previously erroneously assigned to the early Silurian (late Llandovery) Jerrawa Formation. A new species of the coniform conodont *Panderodus* is described under open nomenclature. It is recommended that the name Hanamitono Limestone be suppressed.

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KEYWORDS: Biostratigraphy, Conodonts, Devonian, Graptolites, Ordovician, Palaeontology, Silurian.

INTRODUCTION

Palaeozoic strata exposed in the Boorowa-Crookwell-Taralga-Yass-Goulburn-Braidwood region of southeastern New South Wales (Fig. 1) range in age from Early Ordovician to Late Devonian (Fig. 2) and include, in the Yass-Taemas area, some of the most famous fossiliferous localities in New South Wales. This compilation of all known palaeontological information from these rocks draws on a voluminous scientific literature including more than 270 papers and reports (approximately 15% of which have been published in the *Proceedings of the Linnean Society of New South Wales*) in which Palaeozoic fossils from the region have been documented. The region falls largely within the confines of the Goulburn 1:250,000 and Braidwood 1:100,000 mapsheets that have recently been investigated and mapped by the Geological Survey of NSW (GSNSW), but palaeontological data from adjacent mapsheets is also utilised to provide

age constraints. However, unpublished works, such as student theses, are largely excluded to avoid the possibility of introducing *nomina nuda* or clouding the record with identifications that have not been peer-reviewed. Although some parts of the present paper were incorporated into the Palaeontological Appendix (published on DVD) for the Goulburn Geological Sheet Explanatory Notes (Percival 2012b, in Thomas and Pogson 2012), several identifications and some correlations proposed therein have been revised for this expanded review, which also incorporates previously unpublished data and fossil determinations from the Braidwood region (Fitzherbert in press).

Previous palaeontological studies in the Southern Tablelands region have been concentrated in two highly fossiliferous areas: (1) the Silurian to earliest Devonian succession of the Yass Basin, and (2) the carbonate-dominated Murrumbidgee Group (of Early Devonian age) surrounding Burrinjuck Reservoir. Additional research has focussed on faunas of the

Paleocommunities A Case Study from the Silurian and Lower Devonian, A.J. Boucot and J.D. Lawson, editors, Cambridge University. Fossil communities, chiefly benthic, from Silurian and Devonian rocks are looked at in detail within this book. Discussion of their environmental and evolutionary. Paleocommunities A Case Study from the Silurian and Lower Devonian. No Access TYRANNOSAUR CANNIBALISM: A CASE OF A TOOTH-TRACED. Paleocommunities: a case study from the Silurian and Lower Devonian / edited by A.J. Boucot and J.D. Lawson. Other Authors. Boucot, Arthur J. (Arthur.millrace-cedarfalls.com: Paleocommunities 2 Volume Set: A Case Study from the Silurian and Lower Devonian (Hardcover): Hardcover. Fossil communities, chiefly. Community, Podolia (Silurian to of Ukraine) Paleocommunities--a case study from the Silurian and Lower Devonian [M. Foote/M. Foote/M. Eccentricocosta Community, Pridolian, Piscataquis County, Maine (Silurian of the United Paleocommunities--a case study from the Silurian and Lower Devonian .by their descriptions of Canadian Arctic species from the Silurian. They reviewed all Paleocommunities: a case study from the Silurian and Lower Devonian. Paleocommunities: A Case Study from the. Silurian and Lower. Devonian. Edited by. A. J. BOUCOT. Oregon State University. AND. J. D. LAWSON. University of. Upper Silurian and Lower Devonian vertebrate communities from the JD Lawson (eds) Paleocommunities - a case study from the Silurian and Devonian. Cam. Praeostrea Barrande, from the lower Paleozoic of Central Europe (Bivalvia) . Paleocommunities a case study from the Silurian and Lower Devonian. The new species is only the second undisputed pre-Devonian In Paleocommunities: a case study from the Silurian and Lower Devonian. The Late Silurian Ringerike Group of southern Norway is a lower Old Red in Boucot, A.J., and Lawson, J.D., eds., Paleocommunities: A Case. Study From the .. Case Study from the Silurian and Lower Devonian: Cambridge. University. Echinoderm associations of Central and Eastern North America. in Paleocommunities a case study from the Silurian and Lower Devonian. Silurian Devonian vertebrate dominated communities, with particular references to agnathans. In Paleocommunities: A Case Study from the Silurian and Lower. 'Upper Silurian and Lower Devonian vertebrate communities from the Anglo- Welsh Basin'. in: AJ Boucot, JD Lawson (eds) Paleocommunities - a case study. from the Silurian (late Llandovery) Eurypterid Bed of the Gutterford Burn Flagstones, Reservoir. Formation .. In Boucot, A. J & Lawson, J. D (eds) Paleocommunities: a case study from the Silurian and Lower Devonian, Cambridge. (Eds) Paleocommunities a case study from the Silurian and Lower. Devonian. Cambridge University Press, Cambridge, Bassett. Silurian and Early Devonian and have their absolute peak of diversity in the latest . parts of the world have proved more or less devoid of eurypterids A.J., Lawson, J.D. (Eds.), Paleocommunities: A Case Study from the Silurian and Lower.

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