

## **Supplemental Data:**

References and Paleobiology Database collection numbers (where applicable) of the local fossil assemblages used to construct the ecological dominance dataset.

### **Ordovician**

Bayer, T.N., 1967, Repetitive benthonic community in the Maquoketa Fm. (Ordovician) of Minnesota: *Journal of Paleontology*, v. 41, p. 417-422. (Collection 357 is pooled from many assemblages; 13 other collections from the paper are included)

Berry, W.B.N., Lawson, D.A., and Yancey, E.S., 1979, Species diversity patterns in some middle Ordovician communities from California and Nevada: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 26, p. 99-116. (Collections 296, 424, 425)

Cisne, J.L., 1973, Beecher's Trilobite Bed revisited: ecology of an Ordovician deepwater fauna: *Postilla*, v. 160, p. 1-25. (Collection 340)

Frey, R.C., 1987, The paleoecology of a Late Ordovician shale unit from southwest Ohio and southeastern Indiana: *Journal of Paleontology*, v. 61, p. 242-267. (Collection 368, includes three pooled assemblages considered separately in the analysis).

Frey, R.C., 1987, The occurrence of pelecypods in early Paleozoic epicontinental sea environments, late Ordovician of the Cincinnati, Ohio area: *Palaios*, v. 2, p. 3-23. (Collections 369, 371, 373, 377)

Holland, S.M., Unpublished Data. (Collection 35351)

- Nilsson, R., 1977, A boring through Middle and Upper Ordovician strata at Koängen in western Scania, southern Sweden: Sveriges Geologiska Undersökning, Serie C, Avhandlingar och Uppsatser, v. 71, p. 1-58. (Collections 378, 379, 380)
- Parker, W.C., 1983, Fossil ecological successions in Paleozoic level bottom brachiopod-bryozoan communities: Unpublished Ph.D. Dissertation, University of Chicago, 217 p. (Collections 396, 398, 421)
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- Ross, R.J., 1967, Some Middle Ordovician brachiopods and trilobites from the Basin and Range, western United States: USGS Professional Paper 523-D, p. D1-D4. (Collections 296, 424, 425)
- Titus, R., 1982, Fossil communities of the middle Trenton Group (Ordovician) of New York state: *Journal of Paleontology*, v. 56, p. 477-485. (Collections 430, 432, 433)
- Titus, R., and Cameron, B., 1976, Fossil communities of the lower Trenton Group (Middle Ordovician) of central and northwestern New York state: *Journal of Paleontology*, v. 50, p. 1209-1225. (Collections 332, 333, 334, 335, 337, 338)
- Yancey, E.S., 1971, Early middle Ordovician marine benthic communities in southern Nevada and California: Unpublished M.Sc. Thesis, University of California, Berkeley. (Collection 424)

## Silurian

- Antia, D.D.J., 1981, Faunas from the Upper Silurian (Upper Ludlovian) in the Ludlow-Much Wenlock District, England: *Geological Journal*, v. 16, p. 137-147. (Collections 8300, 8302, 8304, 8305, 8306, 8307, 8308, 8309, 8310, 8311, 8312, 8313, 8314, 8315, 8316, 8320, 8321, 8322, 8323, 8324, 8325)
- Baarli, B.G., 1987, Benthic faunal associations in the lower Silurian Solvik Formation of the Oslo-Asker District, Norway: *Lethaia*, v. 20, p. 75-90. (Collections 502, 503, 504, 505, 506, 507)
- Hurst, J.M., 1975, Some observations on brachiopods and the level-bottom community ecology of Gotland: *Geol. Föreningens i Stockholm Förhandlingar*, v. 97, p. 250-264. (Collections 466, 476)
- Hurst, J.M., and Pickerill, R.K., 1986, The relationship between sedimentary facies and faunal associations in the Llandovery siliclastic Ross Brook Formation, Arisaig, Nova Scotia: *Canadian Journal of Earth Sciences*, v. 23, p. 705-726. (Collections 3038, 3039, 3040, 3043, 3046, 3047, 3051, 3052, 3054, 3055, 3056, 3057, 3058, 3060, 3061, 3062, 3066, 3067, 3068, 3134, 3136, 3137, 3149, 3151, 3159, 3164, 3165, 3168, 3170, 3171, 3172, 3173, 3176, 3178, 3185, 3187, 3188, 3190, 3191, 3192, 3200, 3201, 3203, 3204, 3205, 3206)
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- Johnson, M.E., and Campbell, G.T., 1980, Recurrent carbonate environments in the Lower Silurian of northern Michigan and their inter-regional correlation: *Journal of Paleontology*, v. 54, p. 1041-1057. (Collection 539)
- Pickerill, R.K., and Hurst, J.M., 1983, Sedimentary facies, depositional environments, and faunal associations of the lower Llandovery (Silurian) Beechill Cove Formation, Arisaig, Nova Scotia: *Canadian Journal of Earth Sciences*, v. 20, p. 1761-1779. (Collections 3233, 3234, 3239)
- Watkins, R., 1977, Silurian marine communities west of Dingle, Ireland: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 23, p. 79-118. (Collections 499, 500, 501)
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Brower, J.C., and Nye, O.B., 1991, Quantitative analysis of paleocommunities in the lower part of the Hamilton Group near Cazenovia, New York: *in* Landing, E., and Brett, C.E., eds., *Dynamic Stratigraphy and Depositional Environments of the Hamilton Group (Middle Devonian) in New York State, Part II*, New York State Museum Bulletin 469, p. 37-73. (Collections 9373, 9374, 9375, 9376, 9377, 9378, 9379, 9380, 9381, 9382, 9383, 9395, 9396, 9397, 9398, 9399, 9400, 9401, 9402, 9403, 9404, 9405, 9406, 9407, 9408, 9409, 9477, 9478, 9479, 9480, 9481, 9482, 9483, 9484, 9485, 9486, 9487, 9488, 9489, 9490, 9491, 9492, 9493, 9494, 9495, 9496, 9497, 9498, 9499, 9500, 9501, 9502, 9503, 9504, 9505, 9506, 9507, 9508, 9509, 9510, 9511, 9512, 9513, 9595, 9596, 9597, 9598, 9600, 9601, 9602, 9603, 9604, 9605, 9606, 9607, 9608, 9609, 9610, 9611, 9612)

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- Ferguson, L., 1962, The paleoecology of a Lower Carboniferous marine transgression: *Journal of Paleontology*, v. 36, p. 1090-1107. (Collections 6393, 6394, 6401, 6403, 6410, 6422, 6451)
- Horowitz, A.S., and Waters, J.A., 1972, A Mississippian Echinoderm Site in Alabama: *Journal of Paleontology*, v. 46, p. 660-665. (Collection 2710, collection includes several sites lumped together, only *in situ* data were used)
- Lane, N.G., Matthews, J.L., Driscoll, E.G., and Yochelson, E.L., 1973, Paleontology and paleoecology of the Crawfordsville fossil site (Upper Osagian: Indiana): *University of California Publications in Geological Sciences*, v. 99, p. 1-141. (Collections 8121, 8136, 8137)
- Mudge, M.R., Yochelson, E.L., Douglas, R.C., Duncan, H., Strimple, H.L., Gordon, M., and Dunkle, D.H., 1962, Stratigraphy and Paleontology of the Uppermost

- Pennsylvanian and Lowermost Permian Rocks in Kansas. USGS Professional Paper 323, 213 p. (Collections 11693, 11751, 11761, 12056)
- Olszewski, T.D., 2000, Testing for a relationship between paleocommunity recurrence and taxonomic turnover using a sequence stratigraphic framework: Unpublished Ph.D. Dissertation, Pennsylvania State University, 379 p. (Collections 785, 787, 794, 800, 810, 818, 830, 831, 841, 860, 868, 870)
- Schneider, C.L., 2003, Community paleoecology of the Pennsylvanian Winchell Formation, north-central Texas. Unpublished Ph.D. Dissertation, University of Texas, Austin, 306 p. (Collections 43864, 43880, 43881, 43882, 43883, 43885, 43968, 43970, 43971, 43972, 43973, 43974, 43984, 43985, 43986, 43988, 43989, 43990, 43991, 43997, 44120, 44123, 44126, 44136, 44163)
- Smith, D.P., 1978, Paleontology and paleoecology of the basal New Providence Shale (Osagian: Mississippian) at Paris Landing, Tennessee: Unpublished M.A. Thesis, Indiana University, 173 p. (Collections 6914, 6915, 6916, 6917, 6918, 6919, 6920, 6921, 6922, 6923)
- Waters, J.A., 1978, The paleontology and paleoecology of the Lower Bangor Limestone (Chesterian, Mississippian) in northwestern Alabama: Unpublished Ph.D. Dissertation, Indiana University, 193 p. (Collections 6757, 6749, 6750, 6751, 6754, 6755, 6757, 6759, 6763, 6764, 6765, 6766, 6769, 6773, 6780, 6782, 6789, 6790, 6791, 6792, 6793, 6794, 6795, 6797, 6798, 6799, 6801, 6803, 6804, 6805, 6806, 6807, 6809, 6811, 6823, 6831, 6835, 6837, 6841, 6844, 6845, 6846, 6847, 6848)



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## **Permian**

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Waterhouse, J.B., 1987, Late Palaeozoic Mollusca and correlations from the south-east Bowen Basin, east Australia: *Palaeontographica Abt. A*, v. 198, p. 129-233. (28 collections)

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### **Triassic**

Fraiser, M.L., Unpublished Data.

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## **Jurassic**

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33947, 33952, 33953, 33954, 33958, 33960, 33962, 33963, 33965, 33966, 33968, 33969, 33970, 33971, 33972, 34120, 35437, 35438, 35440, 35445, 35446, 35447, 35448, 35449, 35450, 35453, 35455)

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