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| **Lithostrati-graphy** | **Samples** | **Lithofacies** | **Depositional** **environment** | **Taphonomy** | **Palaeo-latitude** | **Location** | **Basin** | **No. of sampling points** | **No. of species** | **No. & % ge of endemic species in each basin** | **References** |
| Lincolnshire Formation | 1a | Limestone and chert | Mid to outer ramp | Apparently autochthonous | 250S | Virginia | Eastern basin Shenandoah valley basin | 15+ | 22 | Collectively 27 (57%) out of 47 species from Virginia are endemic | [26] |
| Edinburg Formation | 1b | Argillaceous limestone & calcareous shales | Outer ramp | Apparently autochthonous | 250S | Virginia | 20+ | 43 | [26] |
| Crown Point Formation | 2a | Limestone | Inner ramp | Apparently autochthonous | 220S | New York | Appalachian basin | 10+ | 34 | Collectively 24 out of 49 (49%) species from the Appalachian basin are endemic | [24,25] |
| Valcour Formation | 2b | Limestone & dolomite | Inner ramp | Apparently autochthonous | 220S | New York | 5+ | 3 |
| Loysburg Formation | 3a | Limestone & dolomite | Mid ramp | Apparently autochthonous | 220S | Pennsylvania | 5+ | 12 |
| Hatter Formation | 3b | Limestone | Peritidal | Apparently autochthonous | 220S | Pennsylvania | 5+ | 14 |
| Benner Formation | 3c | Limestone | Peritidal | Apparently autochthonous | 220S | Pennsylvania | 5+ | 9 |
| Lexington Limestone | 5 | Limestone | Inner ramp | Apparently autochthonous | 200S | Kentucky |  | 4 | 6 | [45] |
| Balclatchie Formation | 4a | Mudstones | deep marine mudstones | Allochthonous | 210S | Girvan, Scotland | Girvan basin | ? | 2 | 0 (Girvan fauna is completely allochthono-us, so no endemic species) | [46] |
| Ardwell Farm Formation | 4b | Mudstones | deep marine mudstones | Allochthonous | 210S | Girvan, Scotland | 2+ | 5 | [46,47] |
| Bucke Formation | 6 | Limestone, dolomite and shales | Inner ramp | Apparently autochthonous | 170S | Ontario, Canada | Timiskaming outlier | 20+ | 49 | 26 (53%) |  [27] |
| Bony Falls Limestone | 7 | Limestone | Inner ramp | Apparently autochthonous | 130S | Michigan | Michigan basin | 10+ | 12 | 9 (75%) |  [41,42] |
| Bromide Formation | 8a, 8b | Limestone with few interbedded shales and sandstone | Peritidal to Mid ramp | Autochthonous | 130S | Oklahoma | Oklahoma Aulacogen | 100+ | 53 | 29 (56%) |  [20] |
| Hull Formation | 9 | Limestone & shales | Inner ramp | Apparently autochthonous | 130S | Ontario, Canada | Ottawa basin | ? | 17 | 5 (29%) |  [36] |
| Platteville Formation | 10a | Limestone | Open marine shelf | Apparently autochthonous | 110S | Platteville, Minnesota | Illinois basin | ? | 18 | 16 (42%) out of 38 species from the Illinois basin are endemic |  [39] |
| Spechts Ferry Member Decorah Formation | 10b | shales with few thin beds of Limestone | Open marine subtidal shelf | Apparently autochthonous | 110S | Minnesota NA | ? | 20 |  [40] |
| Glenwood Formation | 10c | Shales | Outer shelf | Apparently autochthonous | 100S | Glenwood, Minnesota | ? | 5 |  [39] |
| Silliman’s Fossil Mount | 12 | Calcareous shales & Limestone | Mid to outer ramp | Apparently autochthonous | 50N | Franklin, Canada | Foxe basin | 20+ | 30 | 8 out of 32 species (25%) are endemic |  [43] |
| Frobisher bay Formation | 11 | limestone with some interbedded shales | Inner ramp | Apparently autochthonous | 30N | Baffin Island Nunavut, Canada | ? | 4 |  [44] |
| Lower Esbataottine Formation | 13 | Limestone | Inner to mid-ramp | Apparently autochthonous | 130N | Mackenzie, Canada | Root river basin | 30 | 31 | 20 (65%) |  [17] |