**Supplementary Information**

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Figure S1. Univariate distributions of the four predictor variables for victims (red) and survivors (blue) of the first extinction pulse. A. Mean relative abundance, on a log scale. B. Body size (geometric mean of length and width). C. Mean NMDS 1 value (onshore – offshore position). D. Paleolatitude index.

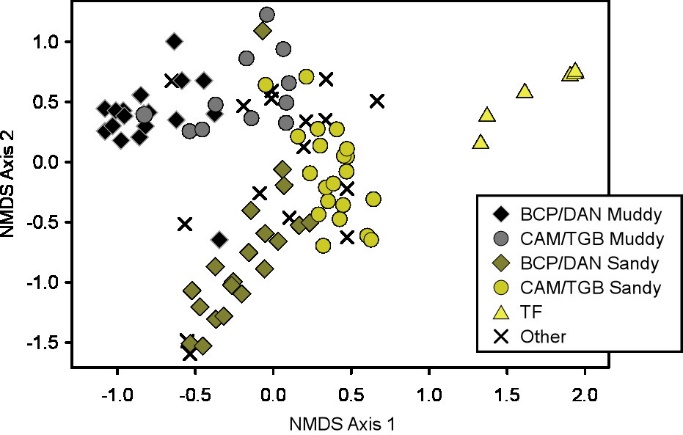
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Figure S2. Unrotated NMDS results (see Methods).

Table S1. Latitude and longitude of sampling locations. Names are only given for measured sections.

|  |  |  |  |
| --- | --- | --- | --- |
| Locality | Latitude | Longitude | Section Name |
| **ADR** | N 42˚15.430' | W 77˚32.156' |  |
| **BCP** | N 42˚21.810' | W 77˚38.675' | Big Creek |
| **BPH** | N 42˚04.394' | W 77˚17.953' |  |
| **CAM** | N 42˚12.008' | W 77˚26.219' | Cameron |
| **CCC** | N 41˚46.643' | W 77˚03.237' |  |
| **CML 1** | N 42˚10.275' | W 77˚21.697' |  |
| **DAN** | N 42˚29.615' | W 77˚39.920' | Dansville |
| **HAN** | N 42˚15.378' | W 77˚29.957' |  |
| **HNS** | N 42˚17.649' | W 77˚38.678' |  |
| **MFT** | N 41˚48.607' | W 77˚04.369' |  |
| **NCL** | N 41˚59.258' | W 77˚10.326' |  |
| **NYP** | N 42˚00.417' | W 77˚07.800' |  |
| **PUP** | N 41˚57.769' | W 77˚07.254' |  |
| **SCL** | N 41˚58.896' | W 77˚08.951' |  |
| **TF** | N 41˚48.728' | W 76˚30.133' |  |
| **TGB** | N 41˚54.423' | W 77˚09.715' | Tioga, Rt. 287 |
| **WAL** | N 42°32.294′ | W 79°10.133′ | Walnut Creek |
| **WCR** | N 42˚00.670' | W 77˚08.248' |  |
| **WSC** | N 42°30.280′ | W 78°05.014′ | Wiscoy Creek |

Table S2. Mo concentrations from the Pipe Creek Formation (first extinction pulse).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Locality | Sample ID | Mo (ppm) | Source | Method |
| **WSC** | Wisc\_PC\_100 | 0 | this study | XRF |
| **WSC** | Wisc\_PC\_40 | 0 | this study | XRF |
| **WSC** | Wisc\_PC\_0-10 | 5.41 | this study | XRF |
| **WSC** | Wisc\_PC\_70 | 8.78 | this study | XRF |
| **WSC** | Wisc\_PC\_180 | 5.02 | this study | XRF |
| **WSC** | Wisc\_PC\_240 | 0 | this study | XRF |
| **WSC** | Wisc\_PC\_310 | 5.89 | this study | XRF |
| **TF** | TF\_23 | 0 | this study | XRF |
| **TF** | TF\_22 | 0 | this study | XRF |
| **TF** | TF\_21 | 0 | this study | XRF |
| **TF** | TF\_20 | 0 | this study | XRF |
| **TF** | TF\_19 | 0 | this study | XRF |
| **TF** | TF\_18 | 0 | this study | XRF |
| **TF** | TF\_17 | 0 | this study | XRF |
| **TF** | TF\_16 | 0 | this study | XRF |
| **TF** | TF\_15 | 0 | this study | XRF |
| **TF** | TF\_14 | 0 | this study | XRF |
| **TF** | TF\_13 | 0 | this study | XRF |
| **TF** | TF\_12 | 0 | this study | XRF |
| **TF** | TF\_11 | 0 | this study | XRF |
| **TF** | TF\_10 | 0 | this study | XRF |
| **TF** | TF\_9 | 3.6 | this study | XRF |
| **TF** | TF\_8\_ | 0 | this study | XRF |
| **TF** | TF\_7 | 3.78 | this study | XRF |
| **TF** | TF\_6\_ | 0 | this study | XRF |
| **TF** | TF\_5 | 0 | this study | XRF |
| **TF** | TF\_4 | 0 | this study | XRF |
| **TF** | TF\_3 | 0 | this study | XRF |
| **TF** | TF\_2 | 0 | this study | XRF |
| **TF** | TF\_1 | 0 | this study | XRF |
| **CAM** | CAM\_60 | 0 | this study | XRF |
| **CAM** | CAM\_61 | 3.14 | this study | XRF |
| **CAM** | CAM\_63 | 0 | this study | XRF |
| **CAM** | CAM\_64 | 0 | this study | XRF |
| **CAM** | CAM\_67 | 0 | this study | XRF |
| **CAM** | CAM\_68 | 0 | this study | XRF |
| **CAM** | CAM\_69 | 0 | this study | XRF |
| **CAM** | CAM\_70 | 0 | this study | XRF |
| **CAM** | CAM\_71 | 0 | this study | XRF |
| **BCP** | BCP\_PC\_1 | 7.71 | this study | XRF |
| **BCP** | BCP\_PC\_2 | 0 | this study | XRF |
| **BCP** | BCP\_PC\_3 | 0 | this study | XRF |
| **BCP** | BCP\_PC\_4 | 0 | this study | XRF |
| **BCP** | BCP\_PC\_5 | 0 | this study | XRF |
| **BCP** | BCP\_PC\_6 | 0 | this study | XRF |
| **BCP** | BCP\_PC\_7 | 0 | this study | XRF |
| **BCP** | BCP\_PC\_8 | 0 | this study | XRF |
| **TGB** | A\_15 | 0 | this study | XRF |
| **TGB** | A\_16 | 0 | this study | XRF |
| **TGB** | A\_17 | 0 | this study | XRF |
| **TGB** | A\_18 | 0 | this study | XRF |
| **TGB** | A\_19 | 0 | this study | XRF |
| **TGB** | A\_20 | 0 | this study | XRF |
| **TGB** | A\_21 | 0 | this study | XRF |
| **TGB** | TGB\_15 | 3.74 | this study | XRF |
| **TGB** | TGB\_15 | 2.95 | this study | XRF |
| **TGB** | A\_22 | 0 | this study | XRF |
| **TGB** | A\_23 | 0 | this study | XRF |
| **TGB** | A\_24 | 0 | this study | XRF |
| **TGB** | A\_25 | 0 | this study | XRF |
| **TGB** | A\_26 | 0 | this study | XRF |
| **WAL** | - | 4 | Lash (2017) | XRF |
| **WAL** | - | 15 | Lash (2017) | XRF |
| **WAL** | - | 26 | Lash (2017) | XRF |
| **WAL** | - | 27 | Lash (2017) | XRF |
| **WAL** | - | 33 | Lash (2017) | XRF |
| **WAL** | - | 19 | Lash (2017) | XRF |
| **WAL** | - | 13 | Lash (2017) | XRF |
| **WAL** | - | 12 | Lash (2017) | XRF |
| **WAL** | - | 13 | Lash (2017) | XRF |
| **WAL** | - | 15 | Lash (2017) | XRF |
| **WAL** | - | 17 | Lash (2017) | XRF |
| **WAL** | - | 13 | Lash (2017) | XRF |
| **WAL** | - | 15 | Lash (2017) | XRF |
| **WAL** | - | 14 | Lash (2017) | XRF |
| **WAL** | - | 13 | Lash (2017) | XRF |
| **WAL** | - | 12 | Lash (2017) | XRF |
| **WAL** | - | 11 | Lash (2017) | XRF |
| **WAL** | - | 10 | Lash (2017) | XRF |
| **WAL** | - | 9 | Lash (2017) | XRF |
| **WAL** | - | 5 | Lash (2017) | XRF |
| **WAL** | - | 4 | Lash (2017) | XRF |
| **WAL** | - | 3 | Lash (2017) | XRF |
| **WAL** | WCLK\_66 | 86.2 | Kelly et al. (2019) | ICP-MS |
| **WAL** | WCLK\_58 | 54.9 | Kelly et al. (2019) | ICP-MS |
| **WAL** | WCLK\_53 | 61.7 | Kelly et al. (2019) | ICP-MS |
| **BCP** | BCLK\_2.0 | 2.3 | Kelly et al. (2019) | ICP-MS |
| **BCP** | BCLK\_1.0 | 1.8 | Kelly et al. (2019) | ICP-MS |
| **BCP** | BCLK\_0.0 | 2.9 | Kelly et al. (2019) | ICP-MS |

Table S3. Values for each species incorporated into the regression analysis. Several species were excluded from the regression analysis due to small sample size or poor preservation (see Methods). Species abbreviations listed in Table S4.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Species | Extinct | Occurs at Lower Latitude | Thermal Tolerance  (Composite Metric) | Proportion of Total Specimens | Per Sample Mean Proportion | Log10(Per Sample Mean Proportion) | Latitude | Mean Depth | Body Size |
| **S.infera** | 1 | 0 | -2.12577 | 0.163494 | 0.158085 | -0.80111 | 30.51 | -1.21154 | 8.478969 |
| **S.impressa** | 0 | 1 | 0.001156 | 0.016513 | 0.014633 | -1.83467 | 30.51 | -0.9052 | 20.71725 |
| **S.amanaensis** | 1 | 0 | -2.12577 | 0.038069 | 0.046598 | -1.33163 | 30.51 | -0.65594 | 16.19667 |
| **S.trulla** | 1 | 0 | -3.00804 | 0.007059 | 0.005842 | -2.23346 | 22.24 | -0.57584 | 23.89525 |
| **D.arcuata** | 1 | 0 | -2.23121 | 0.108282 | 0.129648 | -0.88723 | 30.51 | -0.43943 | 10.76468 |
| **Schizophoria.sp.A** | 1 | 0 | -2.12577 | 0.006177 | 0.008746 | -2.05817 | 30.51 | -0.43912 | 7.043796 |
| **D.cayuta** | 1 | 1 | -0.10428 | 0.018278 | 0.02385 | -1.62251 | 30.51 | -0.40468 | 13.95922 |
| **W.hirsuta** | 0 | 1 | 1.886462 | 0.067314 | 0.101234 | -0.99467 | 51.27 | 0.116644 | 13.12367 |
| **A.gregaria** | 0 | 1 | 1.457492 | 0.306189 | 0.152166 | -0.81768 | 46.19 | 0.135137 | 5.939594 |
| **C.contractum** | 0 | 1 | 1.626917 | 0.005042 | 0.00743 | -2.12898 | 47.3 | 0.178403 | 9.525285 |
| **T.mesacostalis** | 0 | 1 | 1.457492 | 0.001387 | 0.001501 | -2.82355 | 46.19 | 0.18337 | 11.65413 |
| **N.nervosa** | 1 | 1 | -0.10428 | 0.002773 | 0.005087 | -2.29352 | 30.51 | 0.238159 | 26.36702 |
| **R.orestes** | 1 | 0 | -0.66943 | 0.004916 | 0.009219 | -2.0353 | 46.19 | 0.302326 | 12.09384 |
| **C.hamiltonensis** | 1 | 1 | 0.056129 | 0.00416 | 0.005989 | -2.22263 | 31.95 | 0.343256 | 7.849426 |
| **S.hystrix** | 1 | 1 | -0.88112 | 0.083827 | 0.127021 | -0.89613 | 22.24 | 0.34489 | 17.93921 |
| **C.chemungensis** | 0 | 1 | 1.457492 | 0.011093 | 0.015449 | -1.8111 | 46.19 | 0.47785 | 32.86393 |
| **S.coelata** | 1 | 1 | -0.10428 | 0.014875 | 0.021132 | -1.67506 | 30.51 | 0.479603 | 22.54544 |
| **C.inermis** | 0 | 1 | 1.430456 | 0.030505 | 0.046858 | -1.32922 | 46.19 | 0.575073 | 28.94411 |
| **F.chemungensis** | 0 | 1 | 2.47945 | 0.014244 | 0.021782 | -1.6619 | 30.51 | 0.701885 | 22.54111 |
| **C.eximium** | 0 | 1 | 1.626917 | 0.078407 | 0.060727 | -1.21662 | 47.3 | 1.871847 | 7.464097 |

Table S4. Brachiopod species and abbreviations.

|  |  |  |
| --- | --- | --- |
| Abbreviation | Species | Order |
| *D .arcuata* | *Douvillina arcuata* | Strophomenida |
| *D. cayuta* | *Douvillina cayuta* | Strophomenida |
| *S. coelata* | *Strophonelloides coelata* | Strophomenida |
| *N. nervosa* | *Nervostrophia nervosa* | Strophomenida |
| Chonetid | Chonetid species | Productida |
| *D. walcotti* | *Devonoproductus walcotti* | Productida |
| *W. hirsuta* | *Whidbornella hirsuta* | Productida |
| *F. chemungensis* | *Floweria chemungensis* | Orthotedida |
| *S. infera* | *Stainbrookia infera* | Orthida |
| *S. impressa* | *Schizophoria impressa* | Orthida |
| *S. amanaensis* | *Schizophoria amanaensis* | Orthida |
| *S*. sp. A | *Schizophoria* species A | Orthida |
| *C. contractum* | *Cupularostrum contractum* | Rhynchonellida |
| *C. mesacostalis* | *Camarotoechia mesacostalis* | Rhynchonellida |
| *C. eximia* | *Cupularostrum eximia* | Rhynchonellida |
| *S. hystrix* | *Spinatrypa hystrix* | Atrypida |
| *S. trulla* | *Spinatrypa trulla* | Atrypida |
| *P. devoniana* | *Pseudoatrypa devoniana* | Atrypida |
| *A. angelica* | *“Athyris” angelica* | Athyridida |
| *C. inermis* | *Cyrtospirifer inermis* | Spiriferida |
| *C. chemungensis* | *Cyrtospirifer chemungensis* | Spiriferida |
| *R. orestes* | *Rigauxia orestes* | Spiriferida |
| *T. mesacostalis* | *Tylothyris mesacostalis* | Spiriferida |
| *A. gregaria* | *Ambocoelia gregaria* | Spiriferida |
| *C. hamiltonensis* | *Cyrtina hamiltonensis* | Spiriferinidida |
| *P. speciosa* | *Praewaagenoconcha speciosa* | Productida |
| *P. stigmata* | *“Productella” stigmata* | Productida |
| *P. lachrymosa* | *Praewaagenoconcha speciosa* | Productida |
| *S. onustus* | *Semiproductus onustus* | Productida |
| *P. rectispina* | *“Productella” rectispina* | Productida |
| *D. allegania* | *“Dalmanella” allegania* | Orthida |
| *T. leonensis* | *“Thiemella” leonensis* | Orthida |
| *S. planosulcata* | *Spinatrypa planosulcata* | Atrypida |
| *E. multicostata* | *Eumetabolatoechia multicostata* | Rhynchonellida |
| *J. duplicatus* | *Jacoburbirostrum duplicatus* | Rhynchonellida |

Table S5. Summary of univariate tests comparing victims and survivors of the first extinction pulse for each parameter separately. Mann Whitney tests were applied to all parameters, except for ‘Occurs at Lower Latitude’ for which the Fisher Test was applied. Asterisk marks significant results (*p* < 0.05).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter | Paleoatitude | Body Size | Mean Depth | Sample Mean | Occurs at Lower Latitude |
| **W** | 13 | 47 | 31 | 46 |  |
| **p-value** | 0.004\* | 0.882 | 0.175 | 0.824 | 0.038\* |

Table S6. Paleobiology Database collection numbers used in Figure 2B.

590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 629, 630, 631, 632, 633, 634, 635, 636, 641, 642, 643, 644, 645, 646, 647, 648, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 2775, 2777, 3102, 3374, 3375, 3376, 3378, 3379, 3380, 3381, 3382, 3383, 3396, 3397, 3398, 3399, 3400, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3408, 3409, 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3451, 3452, 3454, 3455, 3456, 3457, 3458, 3460, 3476, 3477, 3478, 3480, 3483, 3484, 3485, 3486, 3558, 3560, 3559, 3615, 3619, 3623, 3625, 3633, 3634, 3635, 3636, 3639, 3643, 3660, 3664, 3665, 3672, 3674, 3701, 3703, 3729, 3733, 3738, 3739, 3741, 3743, 3745, 3748, 3749, 3750, 3751, 3798, 3800, 3802, 3804, 3806, 3809, 3810, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3852, 3853, 3854, 3921, 3922, 3925, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3948, 3949, 3961, 3962, 3963, 3964, 3966, 3967, 3968, 3970, 3978, 3979, 3980, 3981, 3984, 3985, 3986, 3987, 3989, 3990, 3991, 3992, 3993, 3995, 3996, 3997, 3998, 3999, 4000, 4002, 4003, 4004, 4007, 4009, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4023, 4024, 4026, 4029, 4031, 4032, 4034, 4035, 4036, 4037, 4038, 4039, 4041, 4046, 4049, 4053, 4057, 4692, 4693, 4694, 4696, 4701, 4703, 4705, 4707, 4790, 4791, 4792, 4794, 4796, 4801, 4803, 4804, 4805, 4809, 4810, 4811, 4812, 4813, 4814, 4815, 4816, 4818, 4819, 4820, 4822, 4824, 4825, 4826, 4827, 4828, 4829, 4832, 4833, 4834, 4836, 4837, 4839, 4840, 4843, 4847, 4862, 4863, 4864, 4865, 5198, 5285, 5287, 5288, 5289, 5290, 5291, 5292, 5293, 5294, 5295, 5296, 5297, 5298, 5299, 5300, 5301, 5302, 5303, 5304, 5305, 5306, 5307, 5308, 5309, 5310, 5313, 5314, 5315, 5317, 5319, 5619, 5620, 5657, 5661, 5664, 5665, 5666, 5667, 5668, 5669, 5670, 5671, 5702, 5706, 5707, 5708, 5709, 5767, 5769, 5770, 5772, 5773, 5774, 5775, 5778, 5783, 5792, 5799, 5800, 5802, 5803, 5804, 5806, 5807, 5809, 5815, 5816, 5817, 5818, 5819, 5865, 5928, 5925, 5926, 5927, 5959, 5960, 6018, 6019, 6020, 6021, 6022, 6026, 6027, 6028, 6029, 6030, 6031, 6032, 6033, 6034, 6035, 6036, 6037, 6038, 6040, 6039, 6042, 6041, 6043, 6048, 6049, 6050, 6051, 6054, 6055, 6056, 6057, 6058, 6059, 6060, 6061, 6073, 6078, 6079, 6080, 6081, 6083, 6084, 6085, 6086, 6088, 6089, 6090, 6091, 6092, 6093, 6094, 6095, 6096, 6097, 6098, 6099, 6100, 6102, 6103, 6104, 6106, 6107, 6108, 6109, 6110, 6111, 6112, 6113, 6114, 6115, 6116, 6117, 6161, 6168, 6178, 6180, 6181, 6182, 6184, 6187, 6188, 6189, 6190, 6191, 6193, 6195, 6196, 6197, 6242, 6243, 6244, 6245, 6246, 6247, 6248, 6249, 6250, 6251, 6252, 6253, 6718, 6719, 6720, 6721, 6722, 6723, 6724, 6725, 6726, 6727, 6728, 6729, 6856, 6857, 6858, 6859, 6860, 6861, 6862, 6863, 6865, 6867, 6873, 6874, 6875, 6876, 6972, 6975, 6977, 6979, 6982, 6983, 6985, 6993, 6994, 7038, 7039, 7040, 7117, 7132, 7169, 7170, 7171, 7172, 7173, 7174, 7175, 7176, 7192, 7196, 7203, 7209, 7211, 7212, 7217, 7218, 7219, 7220, 7222, 7223, 7224, 7225, 7226, 7227, 7228, 7229, 7230, 7231, 7232, 7233, 7234, 7235, 7236, 7237, 7238, 7239, 7240, 7241, 7242, 7243, 7244, 7245, 7246, 7247, 7248, 7249, 7301, 7302, 7303, 7304, 7305, 7306, 7307, 7308, 7309, 7310, 8026, 8344, 8345, 8346, 8347, 8348, 8349, 8350, 8351, 8352, 8353, 8354, 8355, 8356, 8357, 8358, 8359, 8360, 8361, 8362, 8372, 8374, 8375, 8376, 8377, 8378, 8379, 8380, 8381, 8410, 8411, 8412, 8413, 8414, 8415, 8416, 8417, 8418, 8419, 8420, 8477, 8478, 8479, 8480, 8481, 8482, 8483, 8484, 8485, 8486, 8487, 8488, 8489, 8491, 8494, 8495, 8496, 8497, 8498, 8499, 8500, 8501, 8502, 8503, 8504, 8505, 8506, 8507, 8508, 8711, 8713, 8714, 8715, 8716, 8717, 8718, 8722, 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