**Supporting Information**

**Paper 2, Volume 58(2), 2017**: Temporal and spatial variability in macroinvertebrate community structure in relation to environmental variables in Gbako River, Niger State, Nigeria

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**Table S1.** The overall composition, abundance, and distribution of macroinvertebrate taxa in Gbako River, Niger State, July to December, 2013.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Taxon | Code | Station 1 | Station 2 | Station 3 | Station 4 | All Stations |
| Order Coleoptera |  |  |  |  |  |  |
| Family Dystiscida |  |  |  |  |  |  |
| *Philaccolus* sp*.* | Phi | 1 | 7 | 7 | 1 | 16 |
| *Canthoyporus* sp*.* | Can | 1 | 3 | - | - | 4 |
| *Cybister* sp*.* | Cyb | 2 | 1 | - | - | 3 |
| *Philodytes* sp*.* | Phl | 10 | - | 4 | 1 | 15 |
| *Coelhyrus* sp*.* | Coe | 1 | 1 | - | 5 | 7 |
| *Hyphydrus* sp*.* | Hyp | - | 7 | - | - | 7 |
| Family Gyrinidae |  |  |  |  |  |  |
| *Orectogyrus* sp. | Ore | 7 | 5 | - | 2 | 14 |
| Family Notonelidae |  |  |  |  |  |  |
| *Hydrocanthus* sp*.* | Hyd | 2 | 2 | - | 2 | 6 |
| Family Corixidae |  |  |  |  |  |  |
| *Micronecta* sp*.* | Mic | - | - | - | 2 | 2 |
| Family Hyraenidae |  |  |  |  |  |  |
| *Hydrophilia* sp*.* | Hyr | 2 | 3 | - | - | 5 |
| Family Aeshnidae |  |  |  |  |  |  |
| *Aeshnx* sp*.* | Aes | - | 1 | - | - | 1 |
| Family Hydrophilidae |  |  |  |  |  |  |
| *Helochares* sp. | Hel | - | 1 | 4 | 8 | 13 |
| *Hydrophilus* sp. | Hyo | - | 3 | - | 8 | 11 |
| Elmida larva |  |  |  |  |  |  |
| *Elmid* | Elm | - | 3 | 3 | - | 6 |
| Total |  | 26 | 37 | 18 | 29 | 110 |
| Order Ephemeroptera |  |  |  |  |  |  |
| Family Baetidae |  |  |  |  |  |  |
| *Pseudocloeon* sp*.* | Pse | 8 | 3 | 5 | 1 | 17 |
| *Bugillisia* sp*.* | Bug | 15 | 22 | 40 | 37 | 114 |
| *Cloeon* sp*.* | Clo | 1 | 1 | 2 | - | 4 |
| Family Oligoneuridae |  |  |  |  |  |  |
| *Oligoneux* sp*.* | Oli | 2 | - | - | 1 | 3 |
| Family Polymitarcyidae |  |  |  |  |  |  |
| *Polymix* sp*.* | Pol | - | - | - | 3 | 3 |
| Total |  | 26 | 26 | 47 | 42 | 141 |
| Order Zygoptera |  |  |  |  |  |  |
| Family Calopterygidae |  |  |  |  |  |  |
| *Calopteryx* sp*.* | Cal | 9 | 11 | 13 | 4 | 37 |
| Family Coenagronidae |  |  |  |  |  |  |
| *Coenagrion* sp*.* | Coe | 4 | 4 | 4 | 11 | 23 |
| Family Platycnemididae |  |  |  |  |  |  |
| *Platycnemid* sp*.* | Pla | - | 3 | - | - | 3 |
| *Platycnemid* sp*.*  *Mesocnemis* sp*.* | Pla  Mes | -  - | 3  - | -  2 | -  - | 3  2 |
| Total |  | 13 | 18 | 19 | 15 | 65 |
| Order Anisoptera |  |  |  |  |  |  |
| Family Libellulidae |  |  |  |  |  |  |
| *Bradinopyga* sp*.* | Bra | 2 | 22 | - | 17 | 41 |
| *Brachythemus leucostica* | Brl | 14 | 5 | 26 | 17 | 62 |
| *Xyxomma* sp. | Xyx | 1 | 1 | - | - | 2 |
| Family Gomphidae |  |  |  |  |  |  |
| *Gomphus* sp*.* | Gom | 6 | 1 | 3 | 2 | 12 |
| *Lestinogomphus sp.* | Les | 3 | - | 1 | - | 4 |
| Family Corduliidae |  |  |  |  |  |  |
| *Cordulex* sp. | Cor | 2 | 2 | - | 1 | 5 |
| Total |  | 28 | 31 | 30 | 37 | 126 |
| Order Hemiptera |  |  |  |  |  |  |
| Family Hydrometrida |  |  |  |  |  |  |
| *Hydrometra* sp. | Hyd | 2 | 2 | 2 | 6 | 12 |
| Family Nepidae |  |  |  |  |  |  |
| *Nepa* sp*.* | Nep | 2 | - | 5 | - | 7 |
| Family Velidae |  |  |  |  |  |  |
| *Velia caprai* | Vec | - | 11 | 25 | 18 | 54 |
| Total |  | 4 | 13 | 32 | 24 | 73 |
| Order Diptera |  |  |  |  |  |  |
| Family Psychodidae |  |  |  |  |  |  |
| *Psychodid* sp. | Psy | 1 | - | - | - | 1 |
| Family Tabanidae |  |  |  |  |  |  |
| *Tabanus* sp*.* | Tab | - | - | 1 | - | 1 |
| Total |  | 1 | - | 1 | - | 2 |
| Order Molusca |  |  |  |  |  |  |
| Gastropoda |  |  |  |  |  |  |
| *Neritina rubricate* | Ner | 1 | 14 | 13 | - | 28 |
| Family Sphaeriidae |  |  |  |  |  |  |
| *Sphaerudux* sp*.* | Sph | 1 | 2 | 3 | 2 | 8 |
| Family Thiaridae |  |  |  |  |  |  |
| *Potadoma* | Psc | 1 | 7 | 3 | 2 | 13 |
| Family Unimidae |  |  |  |  |  |  |
| *Unimx* sp. | Uni | - | 1 | 6 | 2 | 9 |
| Total |  | 3 | 24 | 25 | 6 | 58 |
| Order Crustacea |  |  |  |  |  |  |
| Family Potamonatidae |  |  |  |  |  |  |
| *Sudanonantes* sp. | Pot | 1 | - | 1 | - | 2 |
| Amphiphoda | Amp | 17 | - | 30 | 51 | 98 |
| Total |  | 18 | - | 31 | 51 | 100 |
| Order Plecoptera |  |  |  |  |  |  |
| Family Perlidae |  |  |  |  |  |  |
| *Neoperla* sp*.* | Neo | 1 | - | - | - | 1 |
| Total No of Taxa/Species (S) |  | 29 | 29 | 23 | 24 |  |
| Total Sum of Individuals (N) |  | 120 | 149 | 203 | 204 | 676 |