

Supplemental Materials: Table S1. Variation and average of ecological variables across sampling sites excluding substrate, cover and macrophyte coverage for which a single value was noted. Min: minimum, max: maximum, av: average and std: standard deviation. SNCC: Société Nationale de Chemin de Fer du Congo.

| | Temperature | | | | Conductivity | | | | Dissoved Oxygen | | | |
|---|-------------|------|------|------|--------------|--------|--------|-------|-----------------|-----|-----|------|
| North basin | | | | | | | | | | | | |
| | Min | Max | Av | Std | Min | Max | Av | Std | Min | Max | Av | Std |
| (1) Sandy patch | 24.3 | 26.7 | 24.8 | ±0.9 | 1136.0 | 1152.0 | 1143.3 | ±6.0 | 7.0 | 7.7 | 7.4 | ±0.3 |
| (2) Rock and macrophytes | 22.7 | 26.3 | 24.5 | ±1.1 | 1137.0 | 1153.0 | 1144.5 | ±5.9 | 7.0 | 7.8 | 7.4 | ±0.3 |
| (3) Rocky shore | 24.2 | 25.9 | 24.7 | ±0.6 | 1137.0 | 1153.5 | 1146.2 | ±5.9 | 7.0 | 7.8 | 7.5 | ±0.3 |
| (4) Rocks mixed with sand | 24.1 | 25.6 | 24.8 | ±0.5 | 1129.5 | 1153.5 | 1144.0 | ±8.4 | 6.8 | 8.3 | 7.5 | ±0.5 |
| (5) Rocky shore | 23.8 | 25.7 | 24.6 | ±0.7 | 1134.0 | 1155.0 | 1145.3 | ±8.0 | 6.9 | 7.9 | 7.3 | ±0.4 |
| (6) Rocky shore—shaded | 23.9 | 25.9 | 24.7 | ±0.7 | 1137.5 | 1149.0 | 1143.0 | ±3.9 | 6.7 | 8.0 | 7.5 | ±0.5 |
| (7) Sandy patch | 24.4 | 26.4 | 25.4 | ±0.7 | 1140.5 | 1152.5 | 1144.6 | ±5.0 | 6.7 | 8.5 | 7.6 | ±0.6 |
| South basin | | | | | | | | | | | | |
| (8) Ishungu with macrophytes | 23.4 | 24.6 | 24.1 | ±0.5 | 1190.0 | 1195.0 | 1192.0 | ±2.1 | 6.2 | 6.7 | 6.4 | ±0.2 |
| (9) Ishungu with a rocky shore | 23.1 | 25.2 | 23.9 | ±1.0 | 1202.0 | 1219.0 | 1206.3 | ±8.5 | 6.0 | 6.5 | 6.4 | ±0.3 |
| (10) Kalengera with a denuded shore | 22.8 | 24.1 | 23.3 | ±0.6 | 1149.0 | 1190.0 | 1165.0 | ±19.2 | 5.2 | 5.5 | 5.4 | ±0.2 |
| (11) Kalengera with macrophytes | 22.1 | 23.8 | 23.1 | ±0.7 | 1150.0 | 1198.0 | 1168.5 | ±22.8 | 5.2 | 6.6 | 5.9 | ±0.6 |
| (12) Alleluia Port with a denuded shore | 22.8 | 23.9 | 23.3 | ±0.5 | 1148.0 | 1170.0 | 1155.5 | ±9.9 | 5.0 | 6.1 | 5.6 | ±0.5 |
| (13) SNCC beach with macrophytes | 22.7 | 23.7 | 23.2 | ±0.4 | 1150.0 | 1187.0 | 1167.8 | ±20.0 | 4.4 | 6.5 | 5.6 | ±0.9 |
| (14) Governor’s park with macrophytes | 22.7 | 23.8 | 23.4 | ±0.5 | 1152.0 | 1197.0 | 1173.5 | ±20.3 | 5.2 | 6.4 | 5.9 | ±0.6 |

Supplemental Materials: Table S1 continued

| | pH | | | | Transparency (cm) | | | | Depth (cm) | | | | | |
|---|-----|-----|-----|------|-------------------|-------|-------|---------|------------|--|-------|--------|-------|--------|
| North basin | | | | | | | | | | | | | | |
| | Min | Max | Av | Std | | Min | Max | Av | Std | | Min | Max | Av | Std |
| (1) Sandy patch | 7.2 | 8.8 | 8.4 | ±0.6 | | 160.0 | 300.0 | 163.7 | ±53.0 | | 86.7 | 466.7 | 181.1 | ±145.6 |
| (2) Rock and macrophytes | 7.2 | 8.7 | 8.4 | ±0.6 | | 160.0 | 300.0 | 197.8 | ±53.0 | | 143.3 | 346.7 | 205.8 | ±76.8 |
| (3) Rocky shore | 7.2 | 8.8 | 8.4 | ±0.6 | | 170.0 | 260.0 | 237.8 | ±34.2 | | 180.0 | 500.0 | 253.8 | ±122.3 |
| (4) Rocks mixed with sand | 7.2 | 8.9 | 8.5 | ±0.6 | | 120.0 | 320.0 | 236.8 | ±88.8 | | 136.7 | 320.0 | 204.4 | ±65.1 |
| (5) Rocky shore | 7.3 | 8.8 | 8.4 | ±0.6 | | 175.0 | 460.0 | 330.8.0 | ±102.0 | | 226.7 | 396.0 | 313.2 | ±62.8 |
| (6) Rocky shore—shaded | 7.3 | 8.7 | 8.4 | ±0.6 | | 250.0 | 420.0 | 300.8 | ±63.9 | | 356.0 | 650.0 | 473.8 | ±112.5 |
| (7) Sandy patch | 7.2 | 8.8 | 8.4 | ±0.6 | | 130.0 | 300.0 | 170.0 | ±64.5 | | 173.3 | 393.3 | 248.8 | ±85.6 |
| South basin | | | | | | | | | | | | | | |
| (8) Ishungu with macrophytes | 8.6 | 9.1 | 9.0 | ±0.2 | | 140.0 | 520.0 | 297.5 | ±159.7 | | 158.0 | 550.0 | 327.0 | ±163.9 |
| (9) Ishungu with a rocky shore | 8.9 | 9.2 | 9.1 | ±0.1 | | 300.0 | 540.0 | 400.0 | ±102.0 | | 300.0 | 1070.0 | 692.5 | ±314.6 |
| (10) Kalengera with a denuded shore | 9.0 | 9.2 | 9.1 | ±0.1 | | 200.0 | 300.0 | 235.0 | ±47.3 | | 200.0 | 770.0 | 492.5 | ±232.9 |
| (11) Kalengera with macrophytes | 8.7 | 9.1 | 8.9 | ±0.2 | | 180.0 | 360.0 | 262.5 | ±82.6 | | 340.0 | 460.0 | 385.0 | ±57.4 |
| (12) Alleluia Port with a denuded shore | 8.2 | 9.1 | 8.8 | ±0.4 | | 140.0 | 240.0 | 200.0 | ±43.2 | | 980.0 | 1030.0 | 992.5 | ±25.0 |
| (13) SNCC beach with macrophytes | 7.4 | 9.1 | 8.4 | ±0.8 | | 160.0 | 260.0 | 202.5 | ±46.5 | | 270.0 | 570.0 | 407.5 | ±160.1 |
| (14) Governor’s park with macrophytes | 8.5 | 9.1 | 8.9 | ±0.3 | | 280.0 | 360.0 | 310.0 | ±34.6 | | 330.0 | 370.0 | 340.0 | ±20.1 |