

## Supplementary material

### **Long-term monitoring of potamodromous migratory fish larvae in an undammed river**

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**Table S1. Monthly variation of abiotic data of the seven reproductive periods October 2008 to March 2015, sampled the Ivinheima River, the upper Paraná River basin, Brazil**

| Month of sampling | Water level (m) | Rainfall (mm) | Temperature (°C) | pH   | Electrical conductivity ( $\mu\text{S cm}^{-1}$ ) | Dissolved oxygen ( $\text{mg L}^{-1}$ ) |
|-------------------|-----------------|---------------|------------------|------|---|---|
| Oct-08            | 1.09            | 2.79          | —                | —    | —   | —                                       |
| Nov-08            | 2.09            | 5.04          | 24.9             | 6.81 | 58.12   | 6.76                                    |
| Dec-08            | 1.08            | 1.95          | 28.4             | 6.72 | 48.22   | 8.3                                     |
| Jan-09            | 1.94            | 6.91          | 26               | 6.84 | 43.9  | 9.6                                     |
| Feb-09            | 2.03            | 4.18          | 29.4             | 6.97 | 44  | 5.45                                    |
| Mar-09            | 1.66            | 1.53          | 29.8             | 6.95 | 42.27   | 5.85                                    |
| Oct-09            | 2.16            | 10            | 23.9             | 6.76 | 38.72   | 7.13                                    |
| Nov-09            | 2.59            | 3.25          | 27.8             | 6.67 | 50.82   | 4.72                                    |
| Dec-09            | 2.69            | 5.6           | 28.2             | 7.42 | 53.42   | 4.99                                    |
| Jan-10            | 3.61            | 5.22          | 28.6             | 6.87 | 41.6  | 2.51                                    |
| Feb-10            | 3.26            | 5.1           | 31.1             | 7.98 | 55.2  | 4.29                                    |
| Mar-10            | 2.87            | 4.65          | 27.8             | 7.97 | 56.92   | 4.15                                    |
| Oct-10            | 2.7             | 3.02          | 24.1             | 8.51 | 48.17   | 6.1                                     |
| Nov-10            | 2.04            | 3.89          | 24.9             | 7.47 | 39.63   | 7.18                                    |
| Dec-10            | 2.3             | 4.61          | 26               | 6.91 | 39.8  | 3.64                                    |
| Jan-11            | 2.24            | 8.55          | 28.5             | 6.66 | 39.32   | 5.64                                    |
| Feb-11            | 3.44            | 10.72         | 28               | 6.35 | 36.9  | 4.01                                    |
| Mar-11            | 3.64            | 5.22          | 27.6             | 6.02 | 49.82   | 4.09                                    |
| Oct-11            | 1.78            | 6.11          | 25.3             | 6.38 | 39.72   | 6.06                                    |
| Nov-11            | 2.19            | 2.62          | 25               | 6.53 | 62.47   | 6.24                                    |
| Dec-11            | 1.51            | 3.25          | 28.7             | 6.86 | 43.32   | 6.28                                    |
| Jan-12            | 1.62            | 4.49          | 27.7             | 6.93 | 44.27   | 6.27                                    |
| Feb-12            | 1.42            | 3.41          | 29.7             | 6.74 | 43.5  | 6.9                                     |
| Mar-12            | 1.66            | 2.66          | 28.8             | 6.74 | 45.6  | 7.41                                    |
| Oct-12            | 1.56            | 2             | 27.3             | 7.18 | 42.72   | 6.31                                    |
| Nov-12            | 1.54            | 3.54          | 28.2             | 6.86 | 44.86   | 9.94                                    |
| Dec-12            | 1.78            | 7.56          | 30.5             | 6.72 | 43.22   | 4.79                                    |
| Jan-13            | 1.82            | 2.16          | 27.7             | 6.32 | 35.37   | 7.72                                    |
| Feb-13            | 1.64            | 7.08          | 28.3             | 6.71 | 36.95   | 8.51                                    |
| Mar-13            | 2.35            | 7.23          | 24.8             | 6.56 | 33.72   | 5.58                                    |
| Oct-13            | 2.32            | 4.74          | 26.5             | 6.9  | 53.55   | 6.61                                    |
| Nov-13            | 1.97            | 3.94          | 27.9             | 7.63 | 64.12   | 6.99                                    |
| Dec-13            | 1.59            | 1.14          | 30               | 6.73 | 45.82   | 6.51                                    |
| Jan-14            | 1.89            | 0.76          | 28.7             | 6.62 | 38.52   | 6.89                                    |

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|--------|------|------|------|------|-------|------|
| Feb-14 | 1.54 | 0.93 | 27.9 | 6.96 | 36.87 | 6.96 |
| Mar-14 | 2.59 | 0.52 | 27.4 | 6.57 | 40.15 | 7.15 |
| Oct-14 | 1.91 | 2.71 | 26.5 | 6.93 | 68.27 | 7.59 |
| Nov-14 | 2.12 | 6.48 | 26.1 | 6.64 | 55.35 | 8.13 |
| Dec-14 | 2.93 | 5.58 | 27.9 | 6.72 | 41.33 | 5.21 |
| Jan-15 | 2.06 | 3.13 | 30   | 7.3  | 52.95 | 6.32 |
| Feb-15 | 2.6  | 6.31 | 28.3 | 6.56 | 40.37 | 5.03 |
| Mar-15 | 2.54 | 4.16 | 27.8 | 6.74 | 43.26 | 5.8  |

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