Table S1. Matapi Basin features and morphometric parameters.

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| Features and morphometric parameters | Unity | Value | Observation |
| Area | km2 | 11.09 | Small: 25 – 250 |
| Basin perimeter | Km | 18.85 | - |
| Stream length  | Km | 5.92 | - |
| Maximum height | m.a.s.l.\* | 29.82 | - |
| Minimum height | m.a.s.l.\* | 0.97 | - |
| Maximum gradient | m | 28.85 | - |
| Basin longest width | km | 3.50 | - |
| Basin longest length | km | 4.54 | - |
| Compactness coefficient | Dimensionless | 1.60 | Type III: 1.51 - >2 |
| Form factor | Dimensionless | 0.32 | Slightly elongated: 0.30-0.37 |
| Elongation ratio | Dimensionless | 0.83 | Low relief: >8 |
| Mean basin elevation | m | 11.63 | - |
| Mean basin slope  | m/m | 0.06 | - |
| Drainage density | km/km2 | 0.53 | Low: <1; High: >2 |

\*m.a.s.l. is meters above sea level.