

TABLE 1

Complete database containing per-event (A) and per-site (B) records used in the analyses and referenced in the manuscript

(A) Per-event database

| ID | CITY              | ZONE             | LAT      | Lon       | DAY | MONTH | YEAR | HOUR | SIMCOLLECTORS | TEMP | HUMID | TBR | HBR    | N_TEMP | N_HUMID | N_TBR | N_HBR |
|----|-------------------|------------------|----------|-----------|-----|-------|------|------|---------------|------|-------|-----|--------|--------|---------|-------|-------|
| 1  | Atalaia do Norte  | Atalaia-Benjamin | -4.36923 | -70.18119 | 20  | 7     | 23   | 18   | 2             | 25.5 | 80.9  | 15  | 7.500  | 0.468  | 0.361   | 0.028 | 0.037 |
| 2  | Atalaia do Norte  | Atalaia-Benjamin | -4.36923 | -70.18119 | 20  | 7     | 23   | 19   | 2             | 24.3 | 85.3  | 11  | 5.500  | 0.274  | 0.537   | 0.020 | 0.027 |
| 3  | Atalaia do Norte  | Atalaia-Benjamin | -4.36923 | -70.18119 | 20  | 7     | 23   | 20   | 2             | 23.8 | 85.9  | 3   | 1.500  | 0.194  | 0.561   | 0.004 | 0.006 |
| 4  | Atalaia do Norte  | Atalaia-Benjamin | -4.36923 | -70.18119 | 20  | 7     | 23   | 21   | 2             | 23.6 | 86.4  | 6   | 3.000  | 0.161  | 0.581   | 0.010 | 0.014 |
| 5  | Atalaia do Norte  | Atalaia-Benjamin | -4.36923 | -70.18119 | 20  | 7     | 23   | 23   | 2             | 23.5 | 88.1  | 6   | 3.000  | 0.145  | 0.649   | 0.010 | 0.014 |
| 6  | Atalaia do Norte  | Atalaia-Benjamin | -4.36458 | -70.19862 | 21  | 7     | 23   | 18   | 2             | 26.9 | 82.3  | 1   | 0.500  | 0.694  | 0.417   | 0.000 | 0.001 |
| 7  | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 21  | 7     | 23   | 18   | 2             | 26.9 | 82.3  | 4   | 2.000  | 0.694  | 0.417   | 0.006 | 0.009 |
| 8  | Atalaia do Norte  | Atalaia-Benjamin | -4.36458 | -70.19862 | 21  | 7     | 23   | 19   | 2             | 25.6 | 85.9  | 2   | 1.000  | 0.484  | 0.561   | 0.002 | 0.004 |
| 9  | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 21  | 7     | 23   | 19   | 2             | 25.6 | 85.9  | 1   | 0.500  | 0.484  | 0.561   | 0.000 | 0.001 |
| 10 | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 21  | 7     | 23   | 20   | 2             | 25.1 | 86.9  | 1   | 0.500  | 0.403  | 0.601   | 0.000 | 0.001 |
| 11 | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 21  | 7     | 23   | 21   | 2             | 25.1 | 86.9  | 2   | 1.000  | 0.403  | 0.601   | 0.002 | 0.004 |
| 12 | Atalaia do Norte  | Atalaia-Benjamin | -4.40772 | -70.16295 | 22  | 7     | 23   | 18   | 1             | 26.6 | 78.3  | 10  | 10.000 | 0.645  | 0.257   | 0.018 | 0.050 |
| 13 | Atalaia do Norte  | Atalaia-Benjamin | -4.36458 | -70.19862 | 22  | 7     | 23   | 18   | 2             | 26.9 | 82.3  | 1   | 0.500  | 0.694  | 0.417   | 0.000 | 0.001 |
| 14 | Atalaia do Norte  | Atalaia-Benjamin | -4.41592 | -70.14637 | 22  | 7     | 23   | 19   | 2             | 25.3 | 82.1  | 2   | 1.000  | 0.435  | 0.409   | 0.002 | 0.004 |
| 15 | Atalaia do Norte  | Atalaia-Benjamin | -4.40772 | -70.16295 | 22  | 7     | 23   | 19   | 1             | 25.3 | 82.1  | 8   | 8.000  | 0.435  | 0.409   | 0.014 | 0.040 |
| 16 | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 22  | 7     | 23   | 19   | 2             | 25.6 | 85.9  | 1   | 0.500  | 0.484  | 0.561   | 0.000 | 0.001 |
| 17 | Atalaia do Norte  | Atalaia-Benjamin | -4.40772 | -70.16295 | 22  | 7     | 23   | 20   | 1             | 24.5 | 83.4  | 12  | 12.000 | 0.306  | 0.461   | 0.022 | 0.060 |
| 18 | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 22  | 7     | 23   | 20   | 2             | 25.1 | 86.9  | 1   | 0.500  | 0.403  | 0.601   | 0.000 | 0.001 |
| 19 | Atalaia do Norte  | Atalaia-Benjamin | -4.40772 | -70.16295 | 22  | 7     | 23   | 21   | 1             | 24.0 | 84.4  | 5   | 5.000  | 0.226  | 0.501   | 0.008 | 0.024 |
| 20 | Atalaia do Norte  | Atalaia-Benjamin | -4.40772 | -70.16295 | 22  | 7     | 23   | 22   | 1             | 23.6 | 85.0  | 6   | 6.000  | 0.161  | 0.525   | 0.010 | 0.030 |
| 21 | Atalaia do Norte  | Atalaia-Benjamin | -4.40772 | -70.16295 | 22  | 7     | 23   | 23   | 1             | 23.2 | 85.6  | 3   | 3.000  | 0.097  | 0.549   | 0.004 | 0.014 |
| 22 | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 23  | 7     | 23   | 19   | 2             | 25.6 | 85.9  | 1   | 0.500  | 0.484  | 0.561   | 0.000 | 0.001 |
| 23 | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 23  | 7     | 23   | 20   | 2             | 25.1 | 86.9  | 1   | 0.500  | 0.403  | 0.601   | 0.000 | 0.001 |
| 24 | Atalaia do Norte  | Atalaia-Benjamin | -4.41617 | -70.14379 | 24  | 7     | 23   | 18   | 2             | 26.7 | 77.8  | 14  | 7.000  | 0.661  | 0.236   | 0.026 | 0.035 |
| 25 | Atalaia do Norte  | Atalaia-Benjamin | -4.37368 | -70.19577 | 24  | 7     | 23   | 18   | 3             | 26.7 | 77.8  | 3   | 1.000  | 0.661  | 0.236   | 0.004 | 0.004 |
| 26 | Atalaia do Norte  | Atalaia-Benjamin | -4.41617 | -70.14379 | 24  | 7     | 23   | 19   | 2             | 25.4 | 81.7  | 12  | 6.000  | 0.452  | 0.393   | 0.022 | 0.030 |
| 27 | Atalaia do Norte  | Atalaia-Benjamin | -4.37368 | -70.19577 | 24  | 7     | 23   | 19   | 3             | 25.4 | 81.7  | 1   | 0.333  | 0.452  | 0.393   | 0.000 | 0.000 |
| 28 | Atalaia do Norte  | Atalaia-Benjamin | -4.37807 | -70.19319 | 24  | 7     | 23   | 19   | 2             | 25.6 | 85.9  | 1   | 0.500  | 0.484  | 0.561   | 0.000 | 0.001 |
| 29 | Atalaia do Norte  | Atalaia-Benjamin | -4.41617 | -70.14379 | 24  | 7     | 23   | 20   | 2             | 24.3 | 84.2  | 15  | 7.500  | 0.274  | 0.493   | 0.028 | 0.037 |
| 30 | Atalaia do Norte  | Atalaia-Benjamin | -4.37368 | -70.19577 | 24  | 7     | 23   | 20   | 3             | 24.3 | 84.2  | 4   | 1.333  | 0.274  | 0.493   | 0.006 | 0.006 |
| 31 | Atalaia do Norte  | Atalaia-Benjamin | -4.41617 | -70.14379 | 24  | 7     | 23   | 21   | 2             | 23.8 | 85.3  | 17  | 8.500  | 0.194  | 0.537   | 0.033 | 0.042 |
| 32 | Atalaia do Norte  | Atalaia-Benjamin | -4.37368 | -70.19577 | 24  | 7     | 23   | 21   | 3             | 23.8 | 85.3  | 1   | 0.333  | 0.194  | 0.537   | 0.000 | 0.000 |
| 33 | Atalaia do Norte  | Atalaia-Benjamin | -4.41617 | -70.14379 | 24  | 7     | 23   | 22   | 2             | 23.2 | 86.3  | 9   | 4.500  | 0.097  | 0.577   | 0.016 | 0.022 |
| 34 | Atalaia do Norte  | Atalaia-Benjamin | -4.37368 | -70.19577 | 24  | 7     | 23   | 22   | 3             | 23.2 | 86.3  | 3   | 1.000  | 0.097  | 0.577   | 0.004 | 0.004 |
| 35 | Atalaia do Norte  | Atalaia-Benjamin | -4.41617 | -70.14379 | 24  | 7     | 23   | 23   | 2             | 22.8 | 86.4  | 5   | 2.500  | 0.032  | 0.581   | 0.008 | 0.012 |
| 36 | Atalaia do Norte  | Atalaia-Benjamin | -4.37311 | -70.2402  | 25  | 7     | 23   | 18   | 4             | 26.9 | 77.6  | 17  | 4.250  | 0.694  | 0.228   | 0.033 | 0.021 |
| 37 | Atalaia do Norte  | Atalaia-Benjamin | -4.37311 | -70.2402  | 25  | 7     | 23   | 19   | 4             | 26.3 | 80.9  | 1   | 0.250  | 0.597  | 0.361   | 0.000 | 0.000 |
| 38 | Atalaia do Norte  | Atalaia-Benjamin | -4.37311 | -70.2402  | 25  | 7     | 23   | 20   | 4             | 25.3 | 84.4  | 5   | 1.250  | 0.435  | 0.501   | 0.008 | 0.005 |
| 39 | Atalaia do Norte  | Atalaia-Benjamin | -4.37311 | -70.2402  | 25  | 7     | 23   | 21   | 4             | 24.3 | 87.2  | 8   | 2.000  | 0.274  | 0.613   | 0.014 | 0.009 |
| 40 | Atalaia do Norte  | Atalaia-Benjamin | -4.37311 | -70.2402  | 25  | 7     | 23   | 22   | 4             | 23.9 | 87.8  | 4   | 1.000  | 0.210  | 0.637   | 0.006 | 0.004 |
| 41 | Atalaia do Norte  | Atalaia-Benjamin | -4.37311 | -70.2402  | 25  | 7     | 23   | 23   | 4             | 23.5 | 88.4  | 1   | 0.250  | 0.145  | 0.661   | 0.000 | 0.000 |
| 42 | Atalaia do Norte  | Atalaia-Benjamin | -4.3923  | -70.16642 | 26  | 7     | 23   | 20   | 2             | 25.7 | 83.0  | 4   | 2.000  | 0.500  | 0.445   | 0.006 | 0.009 |
| 43 | Atalaia do Norte  | Atalaia-Benjamin | -4.3923  | -70.16642 | 26  | 7     | 23   | 21   | 2             | 25.2 | 83.8  | 3   | 1.500  | 0.419  | 0.477   | 0.004 | 0.006 |
| 44 | Atalaia do Norte  | Atalaia-Benjamin | -4.3923  | -70.16642 | 26  | 7     | 23   | 22   | 2             | 24.7 | 84.5  | 1   | 0.500  | 0.339  | 0.505   | 0.000 | 0.001 |
| 45 | Atalaia do Norte  | Atalaia-Benjamin | -4.3923  | -70.16642 | 26  | 7     | 23   | 23   | 2             | 24.4 | 85.0  | 3   | 1.500  | 0.290  | 0.525   | 0.004 | 0.006 |
| 46 | Benjamim Constant | Atalaia-Benjamin | -4.44108 | -70.10792 | 10  | 7     | 23   | 18   | 2             | 26.4 | 78.1  | 1   | 0.500  | 0.613  | 0.248   | 0.000 | 0.001 |
| 47 | Benjamim Constant | Atalaia-Benjamin | -4.44108 | -70.10792 | 10  | 7     | 23   | 19   | 2             | 25.6 | 79.7  | 4   | 2.000  | 0.484  | 0.313   | 0.006 | 0.009 |
| 48 | Benjamim Constant | Atalaia-Benjamin | -4.43878 | -70.08122 | 10  | 7     | 23   | 20   | 2             | 23.4 | 84.2  | 4   | 2.000  | 0.129  | 0.493   | 0.006 | 0.009 |
| 49 | Benjamim Constant | Atalaia-Benjamin | -4.44108 | -70.10792 | 10  | 7     | 23   | 20   | 2             | 25.0 | 80.9  | 2   | 1.000  | 0.387  | 0.361   | 0.002 | 0.004 |
| 50 | Benjamim Constant | Atalaia-Benjamin | -4.43878 | -70.08122 | 10  | 7     | 23   | 21   | 2             | 23.2 | 84.3  | 9   | 4.500  | 0.097  | 0.497   | 0.016 | 0.022 |
| 51 | Benjamim Constant | Atalaia-Benjamin | -4.44108 | -70.10792 | 10  | 7     | 23   | 21   | 2             | 24.6 | 81.3  | 3   | 1.500  | 0.323  | 0.377   | 0.004 | 0.006 |
| 52 | Benjamim Constant | Atalaia-Benjamin | -4.43878 | -70.08122 | 10  | 7     | 23   | 22   | 2             | 22.8 | 84.9  | 4   | 2.000  | 0.032  | 0.521   | 0.006 | 0.009 |
| 53 | Benjamim Constant | Atalaia-Benjamin | -4.44108 | -70.10792 | 10  | 7     | 23   | 22   | 2             | 24.1 | 82.0  | 3   | 1.500  | 0.242  | 0.405   | 0.004 | 0.006 |
| 54 | Benjamim Constant | Atalaia-Benjamin | -4.43878 | -70.08122 | 10  | 7     | 23   | 23   | 2             | 23.1 | 85.2  | 2   | 1.000  | 0.081  | 0.533   | 0.002 | 0.004 |
| 55 | Benjamim Constant | Atalaia-Benjamin | -4.44108 | -70.10792 | 10  | 7     | 23   | 23   | 2             | 23.4 | 83.5  | 1   | 0.500  | 0.129  | 0.465   | 0.000 | 0.001 |
| 56 | Benjamim Constant | Atalaia-Benjamin | -4.41331 | -69.95143 | 11  | 7     | 23   | 18   | 4             | 28.3 | 77.1  | 2   | 0.500  | 0.919  | 0.208   | 0.002 | 0.001 |
| 57 | Benjamim Constant | Atalaia-Benjamin | -4.41331 | -69.95143 | 11  | 7     | 23   | 19   | 4             | 26.3 | 79.8  | 1   | 0.250  | 0.597  | 0.317   | 0.000 | 0.000 |



|     |                   |                  |            |             |    |   |    |    |   |      |      |     |         |       |       |       |       |
|-----|-------------------|------------------|------------|-------------|----|---|----|----|---|------|------|-----|---------|-------|-------|-------|-------|
| 58  | Benjamim Constant | Atalaia-Benjamin | -4.41331   | -69.95143   | 11 | 7 | 23 | 20 | 4 | 25.1 | 83.7 | 6   | 1.500   | 0.403 | 0.473 | 0.010 | 0.006 |
| 59  | Benjamim Constant | Atalaia-Benjamin | -4.41331   | -69.95143   | 11 | 7 | 23 | 21 | 4 | 24.5 | 84.8 | 7   | 1.750   | 0.306 | 0.517 | 0.012 | 0.008 |
| 60  | Benjamim Constant | Atalaia-Benjamin | -4.41331   | -69.95143   | 11 | 7 | 23 | 22 | 4 | 24.1 | 85.5 | 3   | 0.750   | 0.242 | 0.545 | 0.004 | 0.003 |
| 61  | Benjamim Constant | Atalaia-Benjamin | -4.40989   | -70.03597   | 12 | 7 | 23 | 18 | 3 | 26.8 | 85.4 | 10  | 3.333   | 0.677 | 0.541 | 0.018 | 0.016 |
| 62  | Benjamim Constant | Atalaia-Benjamin | -4.42094   | -70.05772   | 12 | 7 | 23 | 18 | 2 | 27.0 | 80.2 | 8   | 4.000   | 0.710 | 0.333 | 0.014 | 0.019 |
| 63  | Benjamim Constant | Atalaia-Benjamin | -4.42094   | -70.05772   | 12 | 7 | 23 | 19 | 2 | 25.8 | 83.0 | 8   | 4.000   | 0.516 | 0.445 | 0.014 | 0.019 |
| 64  | Benjamim Constant | Atalaia-Benjamin | -4.40989   | -70.03597   | 12 | 7 | 23 | 19 | 3 | 26.1 | 86.7 | 9   | 3.000   | 0.565 | 0.593 | 0.016 | 0.014 |
| 65  | Benjamim Constant | Atalaia-Benjamin | -4.42094   | -70.05772   | 12 | 7 | 23 | 20 | 2 | 25.2 | 83.9 | 3   | 1.500   | 0.419 | 0.481 | 0.004 | 0.006 |
| 66  | Benjamim Constant | Atalaia-Benjamin | -4.40989   | -70.03597   | 12 | 7 | 23 | 20 | 3 | 25.6 | 87.4 | 15  | 5.000   | 0.484 | 0.621 | 0.028 | 0.024 |
| 67  | Benjamim Constant | Atalaia-Benjamin | -4.40989   | -70.03597   | 12 | 7 | 23 | 21 | 3 | 25.1 | 87.6 | 14  | 4.667   | 0.403 | 0.629 | 0.026 | 0.023 |
| 68  | Benjamim Constant | Atalaia-Benjamin | -4.42094   | -70.05772   | 12 | 7 | 23 | 22 | 2 | 24.1 | 85.3 | 1   | 0.500   | 0.242 | 0.537 | 0.000 | 0.001 |
| 69  | Benjamim Constant | Atalaia-Benjamin | -4.40989   | -70.03597   | 12 | 7 | 23 | 22 | 3 | 24.7 | 88.2 | 9   | 3.000   | 0.339 | 0.653 | 0.016 | 0.014 |
| 70  | Benjamim Constant | Atalaia-Benjamin | -4.42094   | -70.05772   | 12 | 7 | 23 | 23 | 2 | 23.7 | 85.7 | 2   | 1.000   | 0.177 | 0.553 | 0.002 | 0.004 |
| 71  | Benjamim Constant | Atalaia-Benjamin | -4.40989   | -70.03597   | 12 | 7 | 23 | 23 | 3 | 24.4 | 88.5 | 4   | 1.333   | 0.290 | 0.665 | 0.006 | 0.006 |
| 72  | Benjamim Constant | Atalaia-Benjamin | -4.4187    | -70.0492    | 13 | 7 | 23 | 18 | 3 | 27.5 | 81.8 | 8   | 2.667   | 0.790 | 0.397 | 0.014 | 0.012 |
| 73  | Benjamim Constant | Atalaia-Benjamin | -4.4187    | -70.0492    | 13 | 7 | 23 | 19 | 3 | 26.9 | 83.1 | 21  | 7.000   | 0.694 | 0.449 | 0.041 | 0.035 |
| 74  | Benjamim Constant | Atalaia-Benjamin | -4.4187    | -70.0492    | 13 | 7 | 23 | 20 | 3 | 26.1 | 84.8 | 18  | 6.000   | 0.565 | 0.517 | 0.035 | 0.030 |
| 75  | Benjamim Constant | Atalaia-Benjamin | -4.4187    | -70.0492    | 13 | 7 | 23 | 21 | 3 | 25.5 | 86.3 | 14  | 4.667   | 0.468 | 0.577 | 0.026 | 0.023 |
| 76  | Benjamim Constant | Atalaia-Benjamin | -4.4187    | -70.0492    | 13 | 7 | 23 | 22 | 3 | 25.0 | 86.9 | 4   | 1.333   | 0.387 | 0.601 | 0.006 | 0.006 |
| 77  | Benjamim Constant | Atalaia-Benjamin | -4.4187    | -70.0492    | 13 | 7 | 23 | 23 | 3 | 24.4 | 88.7 | 7   | 2.333   | 0.290 | 0.673 | 0.012 | 0.011 |
| 78  | Benjamim Constant | Atalaia-Benjamin | -4.38622   | -70.00293   | 14 | 7 | 23 | 18 | 3 | 24.1 | 81.8 | 1   | 0.333   | 0.242 | 0.397 | 0.000 | 0.000 |
| 79  | Benjamim Constant | Atalaia-Benjamin | -4.39572   | -70.02904   | 14 | 7 | 23 | 18 | 2 | 25.2 | 81.6 | 4   | 2.000   | 0.419 | 0.389 | 0.006 | 0.009 |
| 80  | Benjamim Constant | Atalaia-Benjamin | -4.38622   | -70.00293   | 14 | 7 | 23 | 19 | 3 | 24.1 | 81.8 | 4   | 1.333   | 0.242 | 0.397 | 0.006 | 0.006 |
| 81  | Benjamim Constant | Atalaia-Benjamin | -4.39572   | -70.02904   | 14 | 7 | 23 | 19 | 2 | 24.4 | 84.3 | 6   | 3.000   | 0.290 | 0.497 | 0.010 | 0.014 |
| 82  | Benjamim Constant | Atalaia-Benjamin | -4.38622   | -70.00293   | 14 | 7 | 23 | 20 | 3 | 23.6 | 83.9 | 5   | 1.667   | 0.161 | 0.481 | 0.008 | 0.007 |
| 83  | Benjamim Constant | Atalaia-Benjamin | -4.39572   | -70.02904   | 14 | 7 | 23 | 20 | 2 | 23.7 | 86.1 | 6   | 3.000   | 0.177 | 0.569 | 0.010 | 0.014 |
| 84  | Benjamim Constant | Atalaia-Benjamin | -4.39572   | -70.02904   | 14 | 7 | 23 | 21 | 2 | 23.5 | 87.2 | 9   | 4.500   | 0.145 | 0.613 | 0.016 | 0.022 |
| 85  | Benjamim Constant | Atalaia-Benjamin | -4.38622   | -70.00293   | 14 | 7 | 23 | 21 | 3 | 23.9 | 83.5 | 6   | 2.000   | 0.210 | 0.465 | 0.010 | 0.009 |
| 86  | Benjamim Constant | Atalaia-Benjamin | -4.39572   | -70.02904   | 14 | 7 | 23 | 22 | 2 | 23.7 | 87.7 | 12  | 6.000   | 0.177 | 0.633 | 0.022 | 0.030 |
| 87  | Benjamim Constant | Atalaia-Benjamin | -4.38622   | -70.00293   | 14 | 7 | 23 | 22 | 3 | 24.0 | 83.9 | 7   | 2.333   | 0.226 | 0.481 | 0.012 | 0.011 |
| 88  | Benjamim Constant | Atalaia-Benjamin | -4.39572   | -70.02904   | 14 | 7 | 23 | 23 | 2 | 23.7 | 88.0 | 11  | 5.500   | 0.177 | 0.645 | 0.020 | 0.027 |
| 89  | Benjamim Constant | Atalaia-Benjamin | -4.38622   | -70.00293   | 14 | 7 | 23 | 23 | 3 | 23.9 | 84.4 | 4   | 1.333   | 0.210 | 0.501 | 0.006 | 0.006 |
| 90  | Benjamim Constant | Atalaia-Benjamin | -4.38825   | -70.04204   | 17 | 7 | 23 | 18 | 4 | 26.9 | 79.8 | 6   | 1.500   | 0.694 | 0.317 | 0.010 | 0.006 |
| 91  | Benjamim Constant | Atalaia-Benjamin | -4.38825   | -70.04204   | 17 | 7 | 23 | 19 | 4 | 25.8 | 82.9 | 15  | 3.750   | 0.516 | 0.441 | 0.028 | 0.018 |
| 92  | Benjamim Constant | Atalaia-Benjamin | -4.38825   | -70.04204   | 17 | 7 | 23 | 20 | 4 | 25.2 | 84.0 | 13  | 3.250   | 0.419 | 0.485 | 0.024 | 0.015 |
| 93  | Benjamim Constant | Atalaia-Benjamin | -4.38825   | -70.04204   | 17 | 7 | 23 | 21 | 4 | 24.7 | 84.9 | 1   | 0.250   | 0.339 | 0.521 | 0.000 | 0.000 |
| 94  | Benjamim Constant | Atalaia-Benjamin | -4.38825   | -70.04204   | 17 | 7 | 23 | 22 | 4 | 24.3 | 85.4 | 2   | 0.500   | 0.274 | 0.541 | 0.002 | 0.001 |
| 95  | Benjamim Constant | Atalaia-Benjamin | -4.38825   | -70.04204   | 17 | 7 | 23 | 23 | 4 | 23.9 | 86.0 | 4   | 1.000   | 0.210 | 0.565 | 0.006 | 0.004 |
| 96  | Benjamim Constant | Atalaia-Benjamin | -4.43259   | -70.12937   | 18 | 7 | 23 | 18 | 2 | 26.4 | 82.5 | 15  | 7.500   | 0.613 | 0.425 | 0.028 | 0.037 |
| 97  | Benjamim Constant | Atalaia-Benjamin | -4.43259   | -70.12937   | 18 | 7 | 23 | 19 | 2 | 25.4 | 86.3 | 1   | 0.500   | 0.452 | 0.577 | 0.000 | 0.001 |
| 98  | Benjamim Constant | Atalaia-Benjamin | -4.43259   | -70.12937   | 18 | 7 | 23 | 20 | 2 | 24.9 | 87.5 | 1   | 0.500   | 0.371 | 0.625 | 0.000 | 0.001 |
| 99  | Barcelos          | Barcelos         | -0.96823   | -62.93618   | 22 | 6 | 22 | 18 | 2 | 27.4 | 77.0 | 53  | 26.500  | 0.774 | 0.204 | 0.106 | 0.135 |
| 100 | Barcelos          | Barcelos         | -0.97506   | -62.93095   | 22 | 6 | 22 | 18 | 2 | 28.2 | 71.9 | 138 | 69.000  | 0.903 | 0.000 | 0.278 | 0.353 |
| 101 | Barcelos          | Barcelos         | -0.96823   | -62.93618   | 22 | 6 | 22 | 19 | 2 | 26.4 | 78.9 | 50  | 25.000  | 0.613 | 0.281 | 0.100 | 0.127 |
| 102 | Barcelos          | Barcelos         | -0.97506   | -62.93095   | 22 | 6 | 22 | 19 | 2 | 27.2 | 76.7 | 109 | 54.500  | 0.742 | 0.192 | 0.220 | 0.279 |
| 103 | Barcelos          | Barcelos         | -0.96823   | -62.93618   | 22 | 6 | 22 | 20 | 2 | 25.4 | 80.6 | 28  | 14.000  | 0.452 | 0.349 | 0.055 | 0.071 |
| 104 | Barcelos          | Barcelos         | -0.97506   | -62.93095   | 22 | 6 | 22 | 20 | 2 | 26.3 | 77.9 | 121 | 60.500  | 0.597 | 0.240 | 0.244 | 0.309 |
| 105 | Barcelos          | Barcelos         | -0.96823   | -62.93618   | 22 | 6 | 22 | 21 | 2 | 24.8 | 81.2 | 25  | 12.500  | 0.355 | 0.373 | 0.049 | 0.063 |
| 106 | Barcelos          | Barcelos         | -0.97506   | -62.93095   | 22 | 6 | 22 | 21 | 2 | 25.6 | 80.3 | 87  | 43.500  | 0.484 | 0.337 | 0.175 | 0.222 |
| 107 | Barcelos          | Barcelos         | -0.96823   | -62.93618   | 22 | 6 | 22 | 22 | 2 | 24.2 | 81.9 | 31  | 15.500  | 0.258 | 0.401 | 0.061 | 0.078 |
| 108 | Barcelos          | Barcelos         | -0.97506   | -62.93095   | 22 | 6 | 22 | 22 | 2 | 25.2 | 81.2 | 95  | 47.500  | 0.419 | 0.373 | 0.191 | 0.243 |
| 109 | Barcelos          | Barcelos         | -0.96823   | -62.93618   | 22 | 6 | 22 | 23 | 2 | 23.4 | 84.7 | 21  | 10.500  | 0.129 | 0.513 | 0.041 | 0.053 |
| 110 | Barcelos          | Barcelos         | -0.97506   | -62.93095   | 22 | 6 | 22 | 23 | 2 | 24.9 | 82.2 | 94  | 47.000  | 0.371 | 0.413 | 0.189 | 0.240 |
| 111 | Barcelos          | Barcelos         | -0.9784484 | -62.9305818 | 23 | 6 | 22 | 18 | 3 | 26.8 | 77.0 | 120 | 40.000  | 0.677 | 0.204 | 0.242 | 0.204 |
| 112 | Barcelos          | Barcelos         | -0.9823501 | -62.9317704 | 23 | 6 | 22 | 18 | 2 | 28.8 | 72.0 | 243 | 121.500 | 1.000 | 0.004 | 0.492 | 0.623 |
| 113 | Barcelos          | Barcelos         | -0.9784484 | -62.9305818 | 23 | 6 | 22 | 19 | 3 | 25.9 | 80.1 | 91  | 30.333  | 0.532 | 0.329 | 0.183 | 0.154 |
| 114 | Barcelos          | Barcelos         | -0.9823501 | -62.9317704 | 23 | 6 | 22 | 19 | 2 | 27.8 | 74.0 | 107 | 53.500  | 0.839 | 0.084 | 0.215 | 0.273 |
| 115 | Barcelos          | Barcelos         | -0.9784484 | -62.9305818 | 23 | 6 | 22 | 20 | 3 | 25.5 | 81.1 | 128 | 42.667  | 0.468 | 0.369 | 0.258 | 0.218 |
| 116 | Barcelos          | Barcelos         | -0.9823501 | -62.9317704 | 23 | 6 | 22 | 20 | 2 | 27.2 | 75.5 | 94  | 47.000  | 0.742 | 0.144 | 0.189 | 0.240 |
| 117 | Barcelos          | Barcelos         | -0.9784484 | -62.9305818 | 23 | 6 | 22 | 21 | 3 | 25.3 | 82.1 | 77  | 25.667  | 0.435 | 0.409 | 0.154 | 0.131 |
| 118 | Barcelos          | Barcelos         | -0.9823501 | -62.9317704 | 23 | 6 | 22 | 21 | 2 | 26.7 | 76.9 | 110 | 55.000  | 0.661 | 0.200 | 0.222 | 0.281 |
| 119 | Barcelos          | Barcelos         | -0.9784484 | -62.9305818 | 23 | 6 | 22 | 22 | 3 | 25.3 | 82.5 | 71  | 23.667  | 0.435 | 0.425 | 0.142 | 0.120 |
| 120 | Barcelos          | Barcelos         | -0.9823501 | -62.9317704 | 23 | 6 | 22 | 22 | 2 | 26.9 | 76.2 | 89  | 44.500  | 0.694 | 0.172 | 0.179 | 0.227 |
| 121 | Barcelos          | Barcelos         | -0.9784484 | -62.9305818 | 23 | 6 | 22 | 23 | 3 | 25.2 | 83.0 | 109 | 36.333  | 0.419 | 0.445 | 0.220 | 0.185 |
| 122 | Barcelos          | Barcelos         | -0.9823501 | -62.9317704 | 23 | 6 | 22 | 23 | 2 | 26.6 | 76.5 | 97  | 48.500  | 0.645 | 0.184 | 0.195 | 0.248 |
| 123 | Barcelos          | Barcelos         | -0.9659757 | -62.9356666 | 24 | 6 | 22 | 18 | 2 | 26.7 | 75.1 | 26  | 13.000  | 0.661 | 0.128 | 0.051 | 0.065 |
| 124 | Barcelos          | Barcelos         | -0.978856  | -62.927828  | 24 | 6 | 22 | 18 | 2 | 27.0 | 73.5 | 80  | 40.000  | 0.710 | 0.064 | 0.161 | 0.204 |

|     |          |          |            |             |    |   |    |    |   |      |      |     |         |       |       |       |       |
|-----|----------|----------|------------|-------------|----|---|----|----|---|------|------|-----|---------|-------|-------|-------|-------|
| 125 | Barcelos | Barcelos | -0.9659757 | -62.9356666 | 24 | 6 | 22 | 19 | 2 | 26.0 | 78.8 | 34  | 17.000  | 0.548 | 0.277 | 0.067 | 0.086 |
| 126 | Barcelos | Barcelos | -0.978856  | -62.927828  | 24 | 6 | 22 | 19 | 2 | 26.3 | 77.1 | 49  | 24.500  | 0.597 | 0.208 | 0.098 | 0.125 |
| 127 | Barcelos | Barcelos | -0.978856  | -62.927828  | 24 | 6 | 22 | 20 | 2 | 25.7 | 79.8 | 43  | 21.500  | 0.500 | 0.317 | 0.085 | 0.109 |
| 128 | Barcelos | Barcelos | -0.9659757 | -62.9356666 | 24 | 6 | 22 | 20 | 2 | 25.7 | 80.7 | 25  | 12.500  | 0.500 | 0.353 | 0.049 | 0.063 |
| 129 | Barcelos | Barcelos | -0.978856  | -62.927828  | 24 | 6 | 22 | 21 | 2 | 25.2 | 80.7 | 10  | 5.000   | 0.419 | 0.353 | 0.018 | 0.024 |
| 130 | Barcelos | Barcelos | -0.9659757 | -62.9356666 | 24 | 6 | 22 | 21 | 2 | 25.3 | 82.0 | 20  | 10.000  | 0.435 | 0.405 | 0.039 | 0.050 |
| 131 | Barcelos | Barcelos | -0.978856  | -62.927828  | 24 | 6 | 22 | 22 | 2 | 24.8 | 82.2 | 18  | 9.000   | 0.355 | 0.413 | 0.035 | 0.045 |
| 132 | Barcelos | Barcelos | -0.9659757 | -62.9356666 | 24 | 6 | 22 | 22 | 2 | 25.0 | 82.6 | 13  | 6.500   | 0.387 | 0.429 | 0.024 | 0.032 |
| 133 | Barcelos | Barcelos | -0.978856  | -62.927828  | 24 | 6 | 22 | 23 | 2 | 24.8 | 82.3 | 11  | 5.500   | 0.355 | 0.417 | 0.020 | 0.027 |
| 134 | Barcelos | Barcelos | -0.9659757 | -62.9356666 | 24 | 6 | 22 | 23 | 2 | 24.8 | 82.9 | 13  | 6.500   | 0.355 | 0.441 | 0.024 | 0.032 |
| 135 | Barcelos | Barcelos | -0.9866299 | -62.93707   | 25 | 6 | 22 | 18 | 3 | 25.5 | 75.5 | 23  | 7.667   | 0.468 | 0.144 | 0.045 | 0.038 |
| 136 | Barcelos | Barcelos | -0.9866299 | -62.93707   | 25 | 6 | 22 | 19 | 3 | 24.1 | 82.7 | 6   | 2.000   | 0.242 | 0.433 | 0.010 | 0.009 |
| 137 | Barcelos | Barcelos | -0.9866299 | -62.93707   | 25 | 6 | 22 | 20 | 3 | 23.7 | 84.1 | 7   | 2.333   | 0.177 | 0.489 | 0.012 | 0.011 |
| 138 | Barcelos | Barcelos | -0.9866299 | -62.93707   | 25 | 6 | 22 | 21 | 3 | 23.4 | 85.5 | 4   | 1.333   | 0.129 | 0.545 | 0.006 | 0.006 |
| 139 | Barcelos | Barcelos | -0.9909519 | -62.9183878 | 26 | 6 | 22 | 18 | 2 | 25.4 | 78.2 | 3   | 1.500   | 0.452 | 0.253 | 0.004 | 0.006 |
| 140 | Barcelos | Barcelos | -0.9871705 | -62.9232475 | 26 | 6 | 22 | 18 | 2 | 25.9 | 73.0 | 246 | 123.000 | 0.532 | 0.044 | 0.498 | 0.630 |
| 141 | Barcelos | Barcelos | -0.9909519 | -62.9183878 | 26 | 6 | 22 | 19 | 2 | 24.7 | 79.5 | 11  | 5.500   | 0.339 | 0.305 | 0.020 | 0.027 |
| 142 | Barcelos | Barcelos | -0.9871705 | -62.9232475 | 26 | 6 | 22 | 19 | 2 | 26.2 | 74.6 | 215 | 107.500 | 0.581 | 0.108 | 0.435 | 0.551 |
| 143 | Barcelos | Barcelos | -0.9909519 | -62.9183878 | 26 | 6 | 22 | 20 | 2 | 24.6 | 81.1 | 9   | 4.500   | 0.323 | 0.369 | 0.016 | 0.022 |
| 144 | Barcelos | Barcelos | -0.9871705 | -62.9232475 | 26 | 6 | 22 | 20 | 2 | 25.7 | 75.4 | 155 | 77.500  | 0.500 | 0.140 | 0.313 | 0.397 |
| 145 | Barcelos | Barcelos | -0.9909519 | -62.9183878 | 26 | 6 | 22 | 21 | 2 | 24.5 | 82.1 | 2   | 1.000   | 0.306 | 0.409 | 0.002 | 0.004 |
| 146 | Barcelos | Barcelos | -0.9871705 | -62.9232475 | 26 | 6 | 22 | 21 | 2 | 25.4 | 77.8 | 66  | 33.000  | 0.452 | 0.236 | 0.132 | 0.168 |
| 147 | Barcelos | Barcelos | -0.9909519 | -62.9183878 | 26 | 6 | 22 | 22 | 2 | 24.4 | 83.2 | 5   | 2.500   | 0.290 | 0.453 | 0.008 | 0.012 |
| 148 | Barcelos | Barcelos | -0.9871705 | -62.9232475 | 26 | 6 | 22 | 22 | 2 | 25.1 | 79.5 | 93  | 46.500  | 0.403 | 0.305 | 0.187 | 0.237 |
| 149 | Barcelos | Barcelos | -0.9909519 | -62.9183878 | 26 | 6 | 22 | 23 | 2 | 24.5 | 84.3 | 5   | 2.500   | 0.306 | 0.497 | 0.008 | 0.012 |
| 150 | Barcelos | Barcelos | -0.9871705 | -62.9232475 | 26 | 6 | 22 | 23 | 2 | 24.8 | 81.4 | 46  | 23.000  | 0.355 | 0.381 | 0.091 | 0.117 |
| 151 | Barcelos | Barcelos | -0.9576782 | -62.9393312 | 28 | 6 | 22 | 18 | 3 | 26.1 | 80.9 | 12  | 4.000   | 0.565 | 0.361 | 0.022 | 0.019 |
| 152 | Barcelos | Barcelos | -0.951286  | -62.9452853 | 28 | 6 | 22 | 18 | 2 | 26.3 | 78.0 | 2   | 1.000   | 0.597 | 0.244 | 0.002 | 0.004 |
| 153 | Barcelos | Barcelos | -0.951286  | -62.9452853 | 28 | 6 | 22 | 19 | 2 | 24.7 | 82.9 | 1   | 0.500   | 0.339 | 0.441 | 0.000 | 0.001 |
| 154 | Barcelos | Barcelos | -0.9576782 | -62.9393312 | 28 | 6 | 22 | 19 | 3 | 25.3 | 83.0 | 12  | 4.000   | 0.435 | 0.445 | 0.022 | 0.019 |
| 155 | Barcelos | Barcelos | -0.9576782 | -62.9393312 | 28 | 6 | 22 | 20 | 3 | 24.9 | 83.7 | 6   | 2.000   | 0.371 | 0.473 | 0.010 | 0.009 |
| 156 | Barcelos | Barcelos | -0.951286  | -62.9452853 | 28 | 6 | 22 | 21 | 2 | 23.5 | 84.5 | 1   | 0.500   | 0.145 | 0.505 | 0.000 | 0.001 |
| 157 | Barcelos | Barcelos | -0.9576782 | -62.9393312 | 28 | 6 | 22 | 21 | 3 | 24.5 | 84.6 | 1   | 0.333   | 0.306 | 0.509 | 0.000 | 0.000 |
| 158 | Barcelos | Barcelos | -0.951286  | -62.9452853 | 28 | 6 | 22 | 22 | 2 | 23.5 | 85.2 | 1   | 0.500   | 0.145 | 0.533 | 0.000 | 0.001 |
| 159 | Barcelos | Barcelos | -0.9576782 | -62.9393312 | 28 | 6 | 22 | 23 | 3 | 24.6 | 85.1 | 1   | 0.333   | 0.323 | 0.529 | 0.000 | 0.000 |
| 160 | Barcelos | Barcelos | -0.9815896 | -62.908489  | 29 | 6 | 22 | 18 | 2 | 27.7 | 78.9 | 196 | 98.000  | 0.823 | 0.281 | 0.396 | 0.502 |
| 161 | Barcelos | Barcelos | -0.9754895 | -62.9198499 | 29 | 6 | 22 | 18 | 2 | 27.8 | 76.1 | 28  | 14.000  | 0.839 | 0.168 | 0.055 | 0.071 |
| 162 | Barcelos | Barcelos | -0.9754895 | -62.9198499 | 29 | 6 | 22 | 19 | 2 | 27.3 | 81.4 | 27  | 13.500  | 0.758 | 0.381 | 0.053 | 0.068 |
| 163 | Barcelos | Barcelos | -0.9815896 | -62.908489  | 29 | 6 | 22 | 19 | 2 | 27.5 | 79.7 | 310 | 155.000 | 0.790 | 0.313 | 0.628 | 0.795 |
| 164 | Barcelos | Barcelos | -0.9754895 | -62.9198499 | 29 | 6 | 22 | 20 | 2 | 27.0 | 79.4 | 16  | 8.000   | 0.710 | 0.301 | 0.030 | 0.040 |
| 165 | Barcelos | Barcelos | -0.9815896 | -62.908489  | 29 | 6 | 22 | 20 | 2 | 27.1 | 77.4 | 207 | 103.500 | 0.726 | 0.220 | 0.419 | 0.530 |
| 166 | Barcelos | Barcelos | -0.9754895 | -62.9198499 | 29 | 6 | 22 | 21 | 2 | 26.5 | 81.0 | 22  | 11.000  | 0.629 | 0.365 | 0.043 | 0.055 |
| 167 | Barcelos | Barcelos | -0.9815896 | -62.908489  | 29 | 6 | 22 | 21 | 2 | 26.7 | 79.1 | 248 | 124.000 | 0.661 | 0.289 | 0.502 | 0.635 |
| 168 | Barcelos | Barcelos | -0.9754895 | -62.9198499 | 29 | 6 | 22 | 22 | 2 | 26.1 | 79.7 | 9   | 4.500   | 0.565 | 0.313 | 0.016 | 0.022 |
| 169 | Barcelos | Barcelos | -0.9815896 | -62.908489  | 29 | 6 | 22 | 22 | 2 | 26.5 | 77.4 | 101 | 50.500  | 0.629 | 0.220 | 0.203 | 0.258 |
| 170 | Barcelos | Barcelos | -0.9754895 | -62.9198499 | 29 | 6 | 22 | 23 | 2 | 25.6 | 80.9 | 6   | 3.000   | 0.484 | 0.361 | 0.010 | 0.014 |
| 171 | Barcelos | Barcelos | -0.9815896 | -62.908489  | 29 | 6 | 22 | 23 | 2 | 26.0 | 79.5 | 73  | 36.500  | 0.548 | 0.305 | 0.146 | 0.186 |
| 172 | Barcelos | Barcelos | -0.9911079 | -62.9256259 | 30 | 6 | 22 | 18 | 3 | 27.7 | 77.2 | 361 | 120.333 | 0.823 | 0.212 | 0.732 | 0.617 |
| 173 | Barcelos | Barcelos | -0.9791428 | -62.9183878 | 30 | 6 | 22 | 18 | 2 | 28.2 | 73.6 | 61  | 30.500  | 0.903 | 0.068 | 0.122 | 0.155 |
| 174 | Barcelos | Barcelos | -0.9911079 | -62.9256259 | 30 | 6 | 22 | 19 | 3 | 26.2 | 80.5 | 493 | 164.333 | 0.581 | 0.345 | 1.000 | 0.843 |
| 175 | Barcelos | Barcelos | -0.9791428 | -62.9183878 | 30 | 6 | 22 | 19 | 2 | 26.9 | 77.3 | 39  | 19.500  | 0.694 | 0.216 | 0.077 | 0.099 |
| 176 | Barcelos | Barcelos | -0.9911079 | -62.9256259 | 30 | 6 | 22 | 20 | 3 | 25.2 | 82.3 | 412 | 137.333 | 0.419 | 0.417 | 0.835 | 0.704 |
| 177 | Barcelos | Barcelos | -0.9791428 | -62.9183878 | 30 | 6 | 22 | 20 | 2 | 26.2 | 79.5 | 29  | 14.500  | 0.581 | 0.305 | 0.057 | 0.073 |
| 178 | Barcelos | Barcelos | -0.9911079 | -62.9256259 | 30 | 6 | 22 | 21 | 3 | 24.5 | 83.2 | 385 | 128.333 | 0.306 | 0.453 | 0.780 | 0.658 |
| 179 | Barcelos | Barcelos | -0.9791428 | -62.9183878 | 30 | 6 | 22 | 21 | 2 | 25.6 | 80.6 | 13  | 6.500   | 0.484 | 0.349 | 0.024 | 0.032 |
| 180 | Barcelos | Barcelos | -0.9911079 | -62.9256259 | 30 | 6 | 22 | 22 | 3 | 23.7 | 85.0 | 472 | 157.333 | 0.177 | 0.525 | 0.957 | 0.807 |
| 181 | Barcelos | Barcelos | -0.9911079 | -62.9256259 | 30 | 6 | 22 | 22 | 3 | 24.0 | 84.4 | 365 | 121.667 | 0.226 | 0.501 | 0.740 | 0.623 |
| 182 | Barcelos | Barcelos | -0.9791428 | -62.9183878 | 30 | 6 | 22 | 22 | 2 | 25.0 | 81.4 | 13  | 6.500   | 0.387 | 0.381 | 0.024 | 0.032 |
| 183 | Barcelos | Barcelos | -0.9791428 | -62.9183878 | 30 | 6 | 22 | 23 | 2 | 24.5 | 82.2 | 2   | 1.000   | 0.306 | 0.413 | 0.002 | 0.004 |
| 184 | Barcelos | Barcelos | -0.997236  | -62.9160039 | 1  | 7 | 22 | 18 | 2 | 24.4 | 82.8 | 31  | 15.500  | 0.290 | 0.437 | 0.061 | 0.078 |
| 185 | Barcelos | Barcelos | -0.9940335 | -62.9157209 | 1  | 7 | 22 | 18 | 2 | 26.2 | 76.6 | 344 | 172.000 | 0.581 | 0.188 | 0.697 | 0.882 |
| 186 | Barcelos | Barcelos | -0.997236  | -62.9160039 | 1  | 7 | 22 | 19 | 2 | 24.9 | 81.4 | 19  | 9.500   | 0.371 | 0.381 | 0.037 | 0.047 |
| 187 | Barcelos | Barcelos | -0.9940335 | -62.9157209 | 1  | 7 | 22 | 19 | 2 | 25.2 | 79.4 | 162 | 81.000  | 0.419 | 0.301 | 0.327 | 0.415 |
| 188 | Barcelos | Barcelos | -0.9940335 | -62.9157209 | 1  | 7 | 22 | 20 | 2 | 24.9 | 80.6 | 207 | 103.500 | 0.371 | 0.349 | 0.419 | 0.530 |
| 189 | Barcelos | Barcelos | -0.997236  | -62.9160039 | 1  | 7 | 22 | 20 | 2 | 24.9 | 81.4 | 19  | 9.500   | 0.371 | 0.381 | 0.037 | 0.047 |
| 190 | Barcelos | Barcelos | -0.997236  | -62.9160039 | 1  | 7 | 22 | 21 | 2 | 24.3 | 83.4 | 27  | 13.500  | 0.274 | 0.461 | 0.053 | 0.068 |
| 191 | Barcelos | Barcelos | -0.9940335 | -62.9157209 | 1  | 7 | 22 | 21 | 2 | 24.5 | 81.4 | 187 | 93.500  | 0.306 | 0.381 | 0.378 | 0.479 |

|     |          |          |            |             |    |    |    |    |   |      |      |     |         |       |       |       |       |
|-----|----------|----------|------------|-------------|----|----|----|----|---|------|------|-----|---------|-------|-------|-------|-------|
| 192 | Barcelos | Barcelos | -0.9940335 | -62.9157209 | 1  | 7  | 22 | 22 | 2 | 24.1 | 81.7 | 140 | 70.000  | 0.242 | 0.393 | 0.283 | 0.358 |
| 193 | Barcelos | Barcelos | -0.997236  | -62.9160039 | 1  | 7  | 22 | 22 | 2 | 24.5 | 82.7 | 6   | 3.000   | 0.306 | 0.433 | 0.010 | 0.014 |
| 194 | Barcelos | Barcelos | -0.9940335 | -62.9157209 | 1  | 7  | 22 | 23 | 2 | 23.6 | 82.6 | 184 | 92.000  | 0.161 | 0.429 | 0.372 | 0.471 |
| 195 | Barcelos | Barcelos | -0.997236  | -62.9160039 | 1  | 7  | 22 | 23 | 2 | 24.3 | 83.4 | 4   | 2.000   | 0.274 | 0.461 | 0.006 | 0.009 |
| 196 | Barcelos | Barcelos | -0.9857906 | -62.9346227 | 4  | 7  | 22 | 18 | 3 | 25.6 | 81.9 | 409 | 136.333 | 0.484 | 0.401 | 0.829 | 0.699 |
| 197 | Barcelos | Barcelos | -0.9827303 | -62.9392394 | 4  | 7  | 22 | 18 | 2 | 26.8 | 78.2 | 321 | 160.500 | 0.677 | 0.253 | 0.650 | 0.823 |
| 198 | Barcelos | Barcelos | -0.9857906 | -62.9346227 | 4  | 7  | 22 | 19 | 3 | 25.4 | 83.4 | 173 | 57.667  | 0.452 | 0.461 | 0.350 | 0.295 |
| 199 | Barcelos | Barcelos | -0.9827303 | -62.9392394 | 4  | 7  | 22 | 19 | 2 | 25.4 | 81.2 | 340 | 170.000 | 0.452 | 0.373 | 0.689 | 0.872 |
| 200 | Barcelos | Barcelos | -0.9857906 | -62.9346227 | 4  | 7  | 22 | 20 | 3 | 26.5 | 76.7 | 188 | 62.667  | 0.629 | 0.192 | 0.380 | 0.320 |
| 201 | Barcelos | Barcelos | -0.9827303 | -62.9392394 | 4  | 7  | 22 | 21 | 2 | 24.4 | 82.2 | 332 | 166.000 | 0.290 | 0.413 | 0.673 | 0.851 |
| 202 | Barcelos | Barcelos | -0.9857906 | -62.9346227 | 4  | 7  | 22 | 21 | 3 | 25.9 | 78.8 | 93  | 31.000  | 0.532 | 0.277 | 0.187 | 0.158 |
| 203 | Barcelos | Barcelos | -0.9857906 | -62.9346227 | 4  | 7  | 22 | 22 | 3 | 24.0 | 82.7 | 57  | 19.000  | 0.226 | 0.433 | 0.114 | 0.096 |
| 204 | Barcelos | Barcelos | -0.9827303 | -62.9392394 | 4  | 7  | 22 | 22 | 2 | 24.1 | 82.4 | 246 | 123.000 | 0.242 | 0.421 | 0.498 | 0.630 |
| 205 | Barcelos | Barcelos | -0.9857906 | -62.9346227 | 4  | 7  | 22 | 23 | 3 | 22.6 | 85.8 | 36  | 12.000  | 0.000 | 0.557 | 0.071 | 0.060 |
| 206 | Barcelos | Barcelos | -0.9827303 | -62.9392394 | 4  | 7  | 22 | 23 | 2 | 23.6 | 83.1 | 194 | 97.000  | 0.161 | 0.449 | 0.392 | 0.497 |
| 207 | Calçoene | Calçoene | 2.307215   | -51.661241  | 23 | 11 | 21 | 18 | 2 | 28.1 | 78.8 | 2   | 1.000   | 0.887 | 0.277 | 0.002 | 0.004 |
| 208 | Calçoene | Calçoene | 2.307215   | -51.661241  | 23 | 11 | 21 | 19 | 2 | 26.3 | 84.3 | 5   | 2.500   | 0.597 | 0.497 | 0.008 | 0.012 |
| 209 | Calçoene | Calçoene | 2.307215   | -51.661241  | 23 | 11 | 21 | 20 | 2 | 25.0 | 87.9 | 3   | 1.500   | 0.387 | 0.639 | 0.004 | 0.006 |
| 210 | Calçoene | Calçoene | 2.307215   | -51.661241  | 23 | 11 | 21 | 21 | 2 | 24.6 | 89.1 | 7   | 3.500   | 0.315 | 0.687 | 0.012 | 0.017 |
| 211 | Calçoene | Calçoene | 2.307215   | -51.661241  | 23 | 11 | 21 | 22 | 2 | 24.3 | 89.9 | 5   | 2.500   | 0.274 | 0.721 | 0.008 | 0.012 |
| 212 | Calçoene | Calçoene | 2.307631   | -51.641231  | 23 | 11 | 21 | 22 | 2 | 24.6 | 87.4 | 1   | 0.500   | 0.315 | 0.619 | 0.000 | 0.001 |
| 213 | Calçoene | Calçoene | 2.307215   | -51.661241  | 23 | 11 | 21 | 23 | 2 | 24.1 | 90.5 | 10  | 5.000   | 0.234 | 0.743 | 0.018 | 0.024 |
| 214 | Calçoene | Calçoene | 2.307631   | -51.641231  | 23 | 11 | 21 | 23 | 2 | 24.3 | 87.8 | 2   | 1.000   | 0.266 | 0.635 | 0.002 | 0.004 |
| 215 | Calçoene | Calçoene | 2.342694   | -51.642528  | 24 | 11 | 21 | 18 | 2 | 25.2 | 92.2 | 12  | 6.000   | 0.411 | 0.812 | 0.022 | 0.030 |
| 216 | Calçoene | Calçoene | 2.340333   | -51.645167  | 24 | 11 | 21 | 18 | 2 | 25.8 | 90.4 | 3   | 1.500   | 0.508 | 0.741 | 0.004 | 0.006 |
| 217 | Calçoene | Calçoene | 2.342694   | -51.642528  | 24 | 11 | 21 | 19 | 2 | 24.6 | 94.2 | 6   | 3.000   | 0.323 | 0.894 | 0.010 | 0.014 |
| 218 | Calçoene | Calçoene | 2.340333   | -51.645167  | 24 | 11 | 21 | 19 | 2 | 25.2 | 92.3 | 2   | 1.000   | 0.419 | 0.816 | 0.002 | 0.004 |
| 219 | Calçoene | Calçoene | 2.342694   | -51.642528  | 24 | 11 | 21 | 20 | 2 | 25.3 | 88.0 | 14  | 7.000   | 0.435 | 0.645 | 0.026 | 0.035 |
| 220 | Calçoene | Calçoene | 2.340333   | -51.645167  | 24 | 11 | 21 | 20 | 2 | 25.5 | 87.5 | 17  | 8.500   | 0.460 | 0.625 | 0.033 | 0.042 |
| 221 | Calçoene | Calçoene | 2.342694   | -51.642528  | 24 | 11 | 21 | 21 | 2 | 25.0 | 89.6 | 8   | 4.000   | 0.379 | 0.709 | 0.014 | 0.019 |
| 222 | Calçoene | Calçoene | 2.340333   | -51.645167  | 24 | 11 | 21 | 21 | 2 | 25.5 | 90.1 | 15  | 7.500   | 0.468 | 0.729 | 0.028 | 0.037 |
| 223 | Calçoene | Calçoene | 2.342694   | -51.642528  | 24 | 11 | 21 | 22 | 2 | 24.5 | 93.5 | 4   | 2.000   | 0.298 | 0.866 | 0.006 | 0.009 |
| 224 | Calçoene | Calçoene | 2.340333   | -51.645167  | 24 | 11 | 21 | 22 | 2 | 24.9 | 92.8 | 7   | 3.500   | 0.371 | 0.838 | 0.012 | 0.017 |
| 225 | Calçoene | Calçoene | 2.342694   | -51.642528  | 24 | 11 | 21 | 23 | 2 | 24.4 | 93.3 | 1   | 0.500   | 0.282 | 0.856 | 0.000 | 0.001 |
| 226 | Calçoene | Calçoene | 2.340333   | -51.645167  | 24 | 11 | 21 | 23 | 2 | 24.5 | 95.3 | 6   | 3.000   | 0.298 | 0.938 | 0.010 | 0.014 |
| 227 | Calçoene | Calçoene | 2.31884    | -51.65333   | 25 | 11 | 21 | 18 | 2 | 27.1 | 87.3 | 5   | 2.500   | 0.726 | 0.617 | 0.008 | 0.012 |
| 228 | Calçoene | Calçoene | 2.31884    | -51.65333   | 25 | 11 | 21 | 20 | 2 | 24.5 | 95.2 | 5   | 2.500   | 0.298 | 0.934 | 0.008 | 0.012 |
| 229 | Calçoene | Calçoene | 2.31884    | -51.65333   | 25 | 11 | 21 | 23 | 2 | 24.3 | 96.4 | 1   | 0.500   | 0.274 | 0.982 | 0.000 | 0.001 |
| 230 | Calçoene | Calçoene | 2.37512    | -51.65385   | 26 | 11 | 21 | 18 | 2 | 25.0 | 91.7 | 3   | 1.500   | 0.387 | 0.792 | 0.004 | 0.006 |
| 231 | Calçoene | Calçoene | 2.37304    | -51.65388   | 26 | 11 | 21 | 18 | 2 | 25.9 | 89.8 | 18  | 9.000   | 0.524 | 0.717 | 0.035 | 0.045 |
| 232 | Calçoene | Calçoene | 2.37512    | -51.65385   | 26 | 11 | 21 | 19 | 2 | 24.6 | 93.8 | 2   | 1.000   | 0.315 | 0.878 | 0.002 | 0.004 |
| 233 | Calçoene | Calçoene | 2.37304    | -51.65388   | 26 | 11 | 21 | 19 | 2 | 25.1 | 91.5 | 3   | 1.500   | 0.403 | 0.786 | 0.004 | 0.006 |
| 234 | Calçoene | Calçoene | 2.37512    | -51.65385   | 26 | 11 | 21 | 20 | 2 | 25.1 | 95.5 | 1   | 0.500   | 0.395 | 0.944 | 0.000 | 0.001 |
| 235 | Calçoene | Calçoene | 2.37304    | -51.65388   | 26 | 11 | 21 | 20 | 2 | 25.5 | 91.6 | 12  | 6.000   | 0.460 | 0.788 | 0.022 | 0.030 |
| 236 | Calçoene | Calçoene | 2.37512    | -51.65385   | 26 | 11 | 21 | 21 | 2 | 24.6 | 96.6 | 4   | 2.000   | 0.323 | 0.988 | 0.006 | 0.009 |
| 237 | Calçoene | Calçoene | 2.37304    | -51.65388   | 26 | 11 | 21 | 21 | 2 | 24.8 | 93.1 | 14  | 7.000   | 0.347 | 0.848 | 0.026 | 0.035 |
| 238 | Calçoene | Calçoene | 2.37304    | -51.65388   | 26 | 11 | 21 | 22 | 2 | 24.3 | 94.5 | 10  | 5.000   | 0.274 | 0.906 | 0.018 | 0.024 |
| 239 | Calçoene | Calçoene | 2.37304    | -51.65388   | 26 | 11 | 21 | 23 | 2 | 23.9 | 96.9 | 11  | 5.500   | 0.202 | 1.000 | 0.020 | 0.027 |
| 240 | Calçoene | Calçoene | 2.37512    | -51.65385   | 26 | 11 | 21 | 23 | 2 | 24.1 | 96.8 | 2   | 1.000   | 0.234 | 0.996 | 0.002 | 0.004 |
| 241 | Calçoene | Calçoene | 2.30606    | -51.63669   | 28 | 11 | 21 | 18 | 2 | 26.2 | 88.5 | 3   | 1.500   | 0.581 | 0.663 | 0.004 | 0.006 |
| 242 | Calçoene | Calçoene | 2.30606    | -51.63669   | 28 | 11 | 21 | 19 | 2 | 25.6 | 89.2 | 2   | 1.000   | 0.484 | 0.693 | 0.002 | 0.004 |
| 243 | Calçoene | Calçoene | 2.30606    | -51.63669   | 28 | 11 | 21 | 20 | 2 | 24.8 | 92.2 | 1   | 0.500   | 0.347 | 0.812 | 0.000 | 0.001 |
| 244 | Calçoene | Calçoene | 2.30606    | -51.63669   | 28 | 11 | 21 | 22 | 2 | 24.2 | 93.9 | 1   | 0.500   | 0.258 | 0.882 | 0.000 | 0.001 |
| 245 | Calçoene | Calçoene | 2.30606    | -51.63669   | 28 | 11 | 21 | 23 | 2 | 24.1 | 95.2 | 2   | 1.000   | 0.234 | 0.934 | 0.002 | 0.004 |
| 246 | Calçoene | Calçoene | 2.40088    | -51.67063   | 30 | 11 | 21 | 18 | 2 | 23.9 | 85.9 | 22  | 11.000  | 0.210 | 0.559 | 0.043 | 0.055 |
| 247 | Calçoene | Calçoene | 2.40072    | -51.67329   | 30 | 11 | 21 | 18 | 2 | 24.6 | 89.7 | 6   | 3.000   | 0.323 | 0.711 | 0.010 | 0.014 |
| 248 | Calçoene | Calçoene | 2.40088    | -51.67063   | 30 | 11 | 21 | 19 | 2 | 23.7 | 86.4 | 8   | 4.000   | 0.169 | 0.581 | 0.014 | 0.019 |
| 249 | Calçoene | Calçoene | 2.40088    | -51.67063   | 30 | 11 | 21 | 20 | 2 | 24.6 | 91.5 | 18  | 9.000   | 0.315 | 0.786 | 0.035 | 0.045 |
| 250 | Calçoene | Calçoene | 2.40088    | -51.67063   | 30 | 11 | 21 | 21 | 2 | 24.3 | 91.9 | 15  | 7.500   | 0.274 | 0.802 | 0.028 | 0.037 |
| 251 | Calçoene | Calçoene | 2.40072    | -51.67329   | 30 | 11 | 21 | 21 | 2 | 24.7 | 96.9 | 1   | 0.500   | 0.331 | 1.000 | 0.000 | 0.001 |
| 252 | Calçoene | Calçoene | 2.40088    | -51.67063   | 30 | 11 | 21 | 22 | 2 | 24.0 | 92.1 | 2   | 1.000   | 0.218 | 0.810 | 0.002 | 0.004 |
| 253 | Calçoene | Calçoene | 2.40072    | -51.67329   | 30 | 11 | 21 | 22 | 2 | 24.6 | 96.2 | 1   | 0.500   | 0.323 | 0.974 | 0.000 | 0.001 |
| 254 | Calçoene | Calçoene | 2.40088    | -51.67063   | 30 | 11 | 21 | 23 | 2 | 23.9 | 92.1 | 5   | 2.500   | 0.202 | 0.810 | 0.008 | 0.012 |
| 255 | Calçoene | Calçoene | 2.40072    | -51.67329   | 30 | 11 | 21 | 23 | 2 | 24.4 | 96.6 | 1   | 0.500   | 0.290 | 0.988 | 0.000 | 0.001 |
| 256 | Calçoene | Calçoene | 2.2884     | -51.63939   | 1  | 12 | 21 | 18 | 2 | 23.7 | 87.1 | 3   | 1.500   | 0.169 | 0.607 | 0.004 | 0.006 |
| 257 | Calçoene | Calçoene | 2.2884     | -51.63939   | 1  | 12 | 21 | 19 | 2 | 23.6 | 87.1 | 3   | 1.500   | 0.161 | 0.609 | 0.004 | 0.006 |
| 258 | Calçoene | Calçoene | 2.2884     | -51.63939   | 1  | 12 | 21 | 20 | 2 | 23.6 | 87.1 | 3   | 1.500   | 0.161 | 0.609 | 0.004 | 0.006 |

|     |          |          |          |           |    |    |    |    |   |      |      |    |        |       |       |       |       |
|-----|----------|----------|----------|-----------|----|----|----|----|---|------|------|----|--------|-------|-------|-------|-------|
| 259 | Calçoene | Calçoene | 2.29386  | -51.64376 | 1  | 12 | 21 | 20 | 2 | 24.0 | 92.8 | 1  | 0.500  | 0.218 | 0.838 | 0.000 | 0.001 |
| 260 | Calçoene | Calçoene | 2.2884   | -51.63939 | 1  | 12 | 21 | 21 | 2 | 23.6 | 87.1 | 1  | 0.500  | 0.161 | 0.609 | 0.000 | 0.001 |
| 261 | Calçoene | Calçoene | 2.2884   | -51.63939 | 1  | 12 | 21 | 22 | 2 | 23.0 | 88.9 | 4  | 2.000  | 0.056 | 0.681 | 0.006 | 0.009 |
| 262 | Calçoene | Calçoene | 2.29386  | -51.64376 | 1  | 12 | 21 | 22 | 2 | 23.9 | 94.1 | 1  | 0.500  | 0.210 | 0.888 | 0.000 | 0.001 |
| 263 | Calçoene | Calçoene | 2.2884   | -51.63939 | 1  | 12 | 21 | 23 | 2 | 22.9 | 89.1 | 2  | 1.000  | 0.048 | 0.689 | 0.002 | 0.004 |
| 264 | Coari    | Coari    | -4.15209 | -63.14442 | 23 | 11 | 22 | 18 | 2 | 26.1 | 75.7 | 32 | 16.000 | 0.565 | 0.152 | 0.063 | 0.081 |
| 265 | Coari    | Coari    | -4.17346 | -63.16007 | 23 | 11 | 22 | 18 | 3 | 26.7 | 73.5 | 17 | 5.667  | 0.661 | 0.064 | 0.033 | 0.028 |
| 266 | Coari    | Coari    | -4.15209 | -63.14442 | 23 | 11 | 22 | 19 | 2 | 25.3 | 78.5 | 41 | 20.500 | 0.435 | 0.265 | 0.081 | 0.104 |
| 267 | Coari    | Coari    | -4.17346 | -63.16007 | 23 | 11 | 22 | 19 | 3 | 26.1 | 75.9 | 43 | 14.333 | 0.565 | 0.160 | 0.085 | 0.072 |
| 268 | Coari    | Coari    | -4.15209 | -63.14442 | 23 | 11 | 22 | 20 | 2 | 24.9 | 80.4 | 60 | 30.000 | 0.371 | 0.341 | 0.120 | 0.153 |
| 269 | Coari    | Coari    | -4.17346 | -63.16007 | 23 | 11 | 22 | 20 | 3 | 25.7 | 77.5 | 40 | 13.333 | 0.500 | 0.224 | 0.079 | 0.067 |
| 270 | Coari    | Coari    | -4.15209 | -63.14442 | 23 | 11 | 22 | 21 | 2 | 24.7 | 81.4 | 31 | 15.500 | 0.339 | 0.381 | 0.061 | 0.078 |
| 271 | Coari    | Coari    | -4.17346 | -63.16007 | 23 | 11 | 22 | 21 | 3 | 25.4 | 78.7 | 28 | 9.333  | 0.452 | 0.273 | 0.055 | 0.047 |
| 272 | Coari    | Coari    | -4.15209 | -63.14442 | 23 | 11 | 22 | 22 | 2 | 24.5 | 82.3 | 28 | 14.000 | 0.306 | 0.417 | 0.055 | 0.071 |
| 273 | Coari    | Coari    | -4.17346 | -63.16007 | 23 | 11 | 22 | 22 | 3 | 25.3 | 79.3 | 14 | 4.667  | 0.435 | 0.297 | 0.026 | 0.023 |
| 274 | Coari    | Coari    | -4.15209 | -63.14442 | 23 | 11 | 22 | 23 | 2 | 24.3 | 82.7 | 27 | 13.500 | 0.274 | 0.433 | 0.053 | 0.068 |
| 275 | Coari    | Coari    | -4.17346 | -63.16007 | 23 | 11 | 22 | 23 | 3 | 25.2 | 79.6 | 9  | 3.000  | 0.419 | 0.309 | 0.016 | 0.014 |
| 276 | Coari    | Coari    | -4.2191  | -63.1798  | 24 | 11 | 22 | 18 | 2 | 26.2 | 77.7 | 43 | 21.500 | 0.581 | 0.232 | 0.085 | 0.109 |
| 277 | Coari    | Coari    | -4.19828 | -63.17111 | 24 | 11 | 22 | 18 | 3 | 27.1 | 75.2 | 18 | 6.000  | 0.726 | 0.132 | 0.035 | 0.030 |
| 278 | Coari    | Coari    | -4.2191  | -63.1798  | 24 | 11 | 22 | 19 | 2 | 25.6 | 80.1 | 33 | 16.500 | 0.484 | 0.329 | 0.065 | 0.083 |
| 279 | Coari    | Coari    | -4.19828 | -63.17111 | 24 | 11 | 22 | 19 | 3 | 26.2 | 78.5 | 39 | 13.000 | 0.581 | 0.265 | 0.077 | 0.065 |
| 280 | Coari    | Coari    | -4.2191  | -63.1798  | 24 | 11 | 22 | 20 | 2 | 25.1 | 82.0 | 48 | 24.000 | 0.403 | 0.405 | 0.096 | 0.122 |
| 281 | Coari    | Coari    | -4.19828 | -63.17111 | 24 | 11 | 22 | 20 | 3 | 25.9 | 79.2 | 54 | 18.000 | 0.532 | 0.293 | 0.108 | 0.091 |
| 282 | Coari    | Coari    | -4.2191  | -63.1798  | 24 | 11 | 22 | 21 | 2 | 25.1 | 82.6 | 43 | 21.500 | 0.403 | 0.429 | 0.085 | 0.109 |
| 283 | Coari    | Coari    | -4.19828 | -63.17111 | 24 | 11 | 22 | 21 | 3 | 25.7 | 80.1 | 52 | 17.333 | 0.500 | 0.329 | 0.104 | 0.088 |
| 284 | Coari    | Coari    | -4.2191  | -63.1798  | 24 | 11 | 22 | 22 | 2 | 24.8 | 83.3 | 23 | 11.500 | 0.355 | 0.457 | 0.045 | 0.058 |
| 285 | Coari    | Coari    | -4.19828 | -63.17111 | 24 | 11 | 22 | 22 | 3 | 25.5 | 81.0 | 22 | 7.333  | 0.468 | 0.365 | 0.043 | 0.036 |
| 286 | Coari    | Coari    | -4.2191  | -63.1798  | 24 | 11 | 22 | 23 | 2 | 24.6 | 83.7 | 17 | 8.500  | 0.323 | 0.473 | 0.033 | 0.042 |
| 287 | Coari    | Coari    | -4.19828 | -63.17111 | 24 | 11 | 22 | 23 | 3 | 25.4 | 81.3 | 14 | 4.667  | 0.452 | 0.377 | 0.026 | 0.023 |
| 288 | Coari    | Coari    | -4.13828 | -63.1112  | 25 | 11 | 22 | 18 | 3 | 27.6 | 78.1 | 11 | 3.667  | 0.806 | 0.248 | 0.020 | 0.018 |
| 289 | Coari    | Coari    | -4.13828 | -63.1112  | 25 | 11 | 22 | 19 | 3 | 26.8 | 80.2 | 30 | 10.000 | 0.677 | 0.333 | 0.059 | 0.050 |
| 290 | Coari    | Coari    | -4.13828 | -63.1112  | 25 | 11 | 22 | 20 | 3 | 26.5 | 80.9 | 9  | 3.000  | 0.629 | 0.361 | 0.016 | 0.014 |
| 291 | Coari    | Coari    | -4.13828 | -63.1112  | 25 | 11 | 22 | 21 | 3 | 26.2 | 80.6 | 9  | 3.000  | 0.581 | 0.349 | 0.016 | 0.014 |
| 292 | Coari    | Coari    | -4.13828 | -63.1112  | 25 | 11 | 22 | 22 | 3 | 25.7 | 81.9 | 8  | 2.667  | 0.500 | 0.401 | 0.014 | 0.012 |
| 293 | Coari    | Coari    | -4.13828 | -63.1112  | 25 | 11 | 22 | 23 | 3 | 25.4 | 81.8 | 7  | 2.333  | 0.452 | 0.397 | 0.012 | 0.011 |
| 294 | Coari    | Coari    | -4.11834 | -63.08357 | 26 | 11 | 22 | 18 | 3 | 25.3 | 80.5 | 10 | 3.333  | 0.435 | 0.345 | 0.018 | 0.016 |
| 295 | Coari    | Coari    | -4.11706 | -63.05516 | 26 | 11 | 22 | 18 | 2 | 25.7 | 78.1 | 39 | 19.500 | 0.500 | 0.248 | 0.077 | 0.099 |
| 296 | Coari    | Coari    | -4.11834 | -63.08357 | 26 | 11 | 22 | 19 | 3 | 24.8 | 82.4 | 18 | 6.000  | 0.355 | 0.421 | 0.035 | 0.030 |
| 297 | Coari    | Coari    | -4.11706 | -63.05516 | 26 | 11 | 22 | 19 | 2 | 24.9 | 81.4 | 40 | 20.000 | 0.371 | 0.381 | 0.079 | 0.101 |
| 298 | Coari    | Coari    | -4.11706 | -63.05516 | 26 | 11 | 22 | 20 | 2 | 24.5 | 83.4 | 33 | 16.500 | 0.306 | 0.461 | 0.065 | 0.083 |
| 299 | Coari    | Coari    | -4.11834 | -63.08357 | 26 | 11 | 22 | 20 | 3 | 24.6 | 84.0 | 63 | 21.000 | 0.323 | 0.485 | 0.126 | 0.107 |
| 300 | Coari    | Coari    | -4.11834 | -63.08357 | 26 | 11 | 22 | 21 | 3 | 24.5 | 83.7 | 41 | 13.667 | 0.306 | 0.473 | 0.081 | 0.069 |
| 301 | Coari    | Coari    | -4.11706 | -63.05516 | 26 | 11 | 22 | 21 | 2 | 24.6 | 83.6 | 14 | 7.000  | 0.323 | 0.469 | 0.026 | 0.035 |
| 302 | Coari    | Coari    | -4.11834 | -63.08357 | 26 | 11 | 22 | 22 | 3 | 24.4 | 84.3 | 33 | 11.000 | 0.290 | 0.497 | 0.065 | 0.055 |
| 303 | Coari    | Coari    | -4.11706 | -63.05516 | 26 | 11 | 22 | 22 | 2 | 24.5 | 83.6 | 17 | 8.500  | 0.306 | 0.469 | 0.033 | 0.042 |
| 304 | Coari    | Coari    | -4.11834 | -63.08357 | 26 | 11 | 22 | 23 | 3 | 24.1 | 84.4 | 25 | 8.333  | 0.242 | 0.501 | 0.049 | 0.042 |
| 305 | Coari    | Coari    | -4.11706 | -63.05516 | 26 | 11 | 22 | 23 | 2 | 24.2 | 84.8 | 16 | 8.000  | 0.258 | 0.517 | 0.030 | 0.040 |
| 306 | Coari    | Coari    | -4.08763 | -63.03659 | 27 | 11 | 22 | 18 | 2 | 25.0 | 76.7 | 10 | 5.000  | 0.387 | 0.192 | 0.018 | 0.024 |
| 307 | Coari    | Coari    | -4.11054 | -63.03975 | 27 | 11 | 22 | 18 | 3 | 25.6 | 76.9 | 17 | 5.667  | 0.484 | 0.200 | 0.033 | 0.028 |
| 308 | Coari    | Coari    | -4.08763 | -63.03659 | 27 | 11 | 22 | 19 | 2 | 24.0 | 80.5 | 25 | 12.500 | 0.226 | 0.345 | 0.049 | 0.063 |
| 309 | Coari    | Coari    | -4.11054 | -63.03975 | 27 | 11 | 22 | 19 | 3 | 24.5 | 80.0 | 39 | 13.000 | 0.306 | 0.325 | 0.077 | 0.065 |
| 310 | Coari    | Coari    | -4.08763 | -63.03659 | 27 | 11 | 22 | 20 | 2 | 23.7 | 81.5 | 27 | 13.500 | 0.177 | 0.385 | 0.053 | 0.068 |
| 311 | Coari    | Coari    | -4.11054 | -63.03975 | 27 | 11 | 22 | 20 | 3 | 24.1 | 81.2 | 58 | 19.333 | 0.242 | 0.373 | 0.116 | 0.098 |
| 312 | Coari    | Coari    | -4.08763 | -63.03659 | 27 | 11 | 22 | 21 | 2 | 23.4 | 83.1 | 12 | 6.000  | 0.129 | 0.449 | 0.022 | 0.030 |
| 313 | Coari    | Coari    | -4.11054 | -63.03975 | 27 | 11 | 22 | 21 | 3 | 23.6 | 82.3 | 46 | 15.333 | 0.161 | 0.417 | 0.091 | 0.077 |
| 314 | Coari    | Coari    | -4.08763 | -63.03659 | 27 | 11 | 22 | 22 | 2 | 23.3 | 83.4 | 7  | 3.500  | 0.113 | 0.461 | 0.012 | 0.017 |
| 315 | Coari    | Coari    | -4.11054 | -63.03975 | 27 | 11 | 22 | 22 | 3 | 23.5 | 82.7 | 52 | 17.333 | 0.145 | 0.433 | 0.104 | 0.088 |
| 316 | Coari    | Coari    | -4.08763 | -63.03659 | 27 | 11 | 22 | 23 | 2 | 23.1 | 83.4 | 10 | 5.000  | 0.081 | 0.461 | 0.018 | 0.024 |
| 317 | Coari    | Coari    | -4.11054 | -63.03975 | 27 | 11 | 22 | 23 | 3 | 23.2 | 83.5 | 11 | 3.667  | 0.097 | 0.465 | 0.020 | 0.018 |
| 318 | Coari    | Coari    | -4.11175 | -63.02847 | 28 | 11 | 22 | 19 | 2 | 25.7 | 78.0 | 23 | 11.500 | 0.500 | 0.244 | 0.045 | 0.058 |
| 319 | Coari    | Coari    | -4.11175 | -63.02847 | 28 | 11 | 22 | 20 | 2 | 24.9 | 81.4 | 24 | 12.000 | 0.371 | 0.381 | 0.047 | 0.060 |
| 320 | Coari    | Coari    | -4.11175 | -63.02847 | 28 | 11 | 22 | 21 | 2 | 24.1 | 83.9 | 15 | 7.500  | 0.242 | 0.481 | 0.028 | 0.037 |
| 321 | Coari    | Coari    | -4.11175 | -63.02847 | 28 | 11 | 22 | 22 | 2 | 23.5 | 84.8 | 12 | 6.000  | 0.145 | 0.517 | 0.022 | 0.030 |
| 322 | Coari    | Coari    | -4.11175 | -63.02847 | 28 | 11 | 22 | 23 | 2 | 23.0 | 85.5 | 4  | 2.000  | 0.065 | 0.545 | 0.006 | 0.009 |
| 323 | Coari    | Coari    | -4.17688 | -63.19342 | 29 | 11 | 22 | 18 | 3 | 26.2 | 81.6 | 14 | 4.667  | 0.581 | 0.389 | 0.026 | 0.023 |
| 324 | Coari    | Coari    | -4.16898 | -63.17531 | 29 | 11 | 22 | 18 | 2 | 27.1 | 79.6 | 71 | 35.500 | 0.726 | 0.309 | 0.142 | 0.181 |
| 325 | Coari    | Coari    | -4.17688 | -63.19342 | 29 | 11 | 22 | 19 | 3 | 25.0 | 84.6 | 18 | 6.000  | 0.387 | 0.509 | 0.035 | 0.030 |

|     |       |       |          |           |    |    |    |    |   |      |      |    |        |       |       |       |       |
|-----|-------|-------|----------|-----------|----|----|----|----|---|------|------|----|--------|-------|-------|-------|-------|
| 326 | Coari | Coari | -4.16898 | -63.17531 | 29 | 11 | 22 | 19 | 2 | 25.9 | 83.8 | 72 | 36.000 | 0.532 | 0.477 | 0.144 | 0.184 |
| 327 | Coari | Coari | -4.17688 | -63.19342 | 29 | 11 | 22 | 20 | 3 | 24.5 | 85.0 | 22 | 7.333  | 0.306 | 0.525 | 0.043 | 0.036 |
| 328 | Coari | Coari | -4.16898 | -63.17531 | 29 | 11 | 22 | 20 | 2 | 25.2 | 85.1 | 72 | 36.000 | 0.419 | 0.529 | 0.144 | 0.184 |
| 329 | Coari | Coari | -4.17688 | -63.19342 | 29 | 11 | 22 | 21 | 3 | 24.0 | 85.4 | 28 | 9.333  | 0.226 | 0.541 | 0.055 | 0.047 |
| 330 | Coari | Coari | -4.16898 | -63.17531 | 29 | 11 | 22 | 21 | 2 | 25.1 | 84.7 | 78 | 39.000 | 0.403 | 0.513 | 0.157 | 0.199 |
| 331 | Coari | Coari | -4.17688 | -63.19342 | 29 | 11 | 22 | 22 | 3 | 23.7 | 85.7 | 35 | 11.667 | 0.177 | 0.553 | 0.069 | 0.059 |
| 332 | Coari | Coari | -4.16898 | -63.17531 | 29 | 11 | 22 | 22 | 2 | 24.6 | 85.5 | 64 | 32.000 | 0.323 | 0.545 | 0.128 | 0.163 |
| 333 | Coari | Coari | -4.17688 | -63.19342 | 29 | 11 | 22 | 23 | 3 | 23.4 | 86.0 | 26 | 8.667  | 0.129 | 0.565 | 0.051 | 0.043 |
| 334 | Coari | Coari | -4.16898 | -63.17531 | 29 | 11 | 22 | 23 | 2 | 24.4 | 85.4 | 47 | 23.500 | 0.290 | 0.541 | 0.093 | 0.119 |
| 335 | Coari | Coari | -4.25578 | -63.17721 | 30 | 11 | 22 | 18 | 2 | 26.7 | 82.0 | 3  | 1.500  | 0.661 | 0.405 | 0.004 | 0.006 |
| 336 | Coari | Coari | -4.23718 | -63.19107 | 30 | 11 | 22 | 18 | 3 | 27.0 | 82.1 | 18 | 6.000  | 0.710 | 0.409 | 0.035 | 0.030 |
| 337 | Coari | Coari | -4.25578 | -63.17721 | 30 | 11 | 22 | 19 | 2 | 26.1 | 84.5 | 4  | 2.000  | 0.565 | 0.505 | 0.006 | 0.009 |
| 338 | Coari | Coari | -4.23718 | -63.19107 | 30 | 11 | 22 | 19 | 3 | 26.6 | 82.9 | 8  | 2.667  | 0.645 | 0.441 | 0.014 | 0.012 |
| 339 | Coari | Coari | -4.25578 | -63.17721 | 30 | 11 | 22 | 20 | 2 | 25.4 | 85.7 | 5  | 2.500  | 0.452 | 0.553 | 0.008 | 0.012 |
| 340 | Coari | Coari | -4.23718 | -63.19107 | 30 | 11 | 22 | 20 | 3 | 25.9 | 83.7 | 12 | 4.000  | 0.532 | 0.473 | 0.022 | 0.019 |
| 341 | Coari | Coari | -4.25578 | -63.17721 | 30 | 11 | 22 | 21 | 2 | 25.1 | 86.2 | 5  | 2.500  | 0.403 | 0.573 | 0.008 | 0.012 |
| 342 | Coari | Coari | -4.23718 | -63.19107 | 30 | 11 | 22 | 21 | 3 | 25.3 | 84.3 | 15 | 5.000  | 0.435 | 0.497 | 0.028 | 0.024 |
| 343 | Coari | Coari | -4.25578 | -63.17721 | 30 | 11 | 22 | 22 | 2 | 24.6 | 86.8 | 1  | 0.500  | 0.323 | 0.597 | 0.000 | 0.001 |
| 344 | Coari | Coari | -4.23718 | -63.19107 | 30 | 11 | 22 | 22 | 3 | 24.8 | 84.8 | 3  | 1.000  | 0.355 | 0.517 | 0.004 | 0.004 |
| 345 | Coari | Coari | -4.23718 | -63.19107 | 30 | 11 | 22 | 23 | 3 | 24.7 | 81.2 | 6  | 2.000  | 0.339 | 0.373 | 0.010 | 0.009 |
| 346 | Coari | Coari | -4.12842 | -63.14272 | 2  | 12 | 22 | 18 | 3 | 24.1 | 81.0 | 1  | 0.333  | 0.242 | 0.365 | 0.000 | 0.000 |
| 347 | Coari | Coari | -4.12891 | -63.12771 | 2  | 12 | 22 | 18 | 2 | 24.2 | 79.4 | 6  | 3.000  | 0.258 | 0.301 | 0.010 | 0.014 |
| 348 | Coari | Coari | -4.12842 | -63.14272 | 2  | 12 | 22 | 19 | 3 | 23.8 | 82.7 | 9  | 3.000  | 0.194 | 0.433 | 0.016 | 0.014 |
| 349 | Coari | Coari | -4.12891 | -63.12771 | 2  | 12 | 22 | 19 | 2 | 24.4 | 81.2 | 9  | 4.500  | 0.290 | 0.373 | 0.016 | 0.022 |
| 350 | Coari | Coari | -4.12842 | -63.14272 | 2  | 12 | 22 | 20 | 3 | 23.5 | 83.1 | 12 | 4.000  | 0.145 | 0.449 | 0.022 | 0.019 |
| 351 | Coari | Coari | -4.12891 | -63.12771 | 2  | 12 | 22 | 20 | 2 | 23.8 | 82.9 | 5  | 2.500  | 0.194 | 0.441 | 0.008 | 0.012 |
| 352 | Coari | Coari | -4.12842 | -63.14272 | 2  | 12 | 22 | 21 | 3 | 23.5 | 83.4 | 7  | 2.333  | 0.145 | 0.461 | 0.012 | 0.011 |
| 353 | Coari | Coari | -4.12891 | -63.12771 | 2  | 12 | 22 | 21 | 2 | 23.8 | 83.8 | 1  | 0.500  | 0.194 | 0.477 | 0.000 | 0.001 |
| 354 | Coari | Coari | -4.12842 | -63.14272 | 2  | 12 | 22 | 22 | 3 | 23.6 | 83.2 | 10 | 3.333  | 0.161 | 0.453 | 0.018 | 0.016 |
| 355 | Coari | Coari | -4.12891 | -63.12771 | 2  | 12 | 22 | 22 | 2 | 23.7 | 83.7 | 3  | 1.500  | 0.177 | 0.473 | 0.004 | 0.006 |
| 356 | Coari | Coari | -4.12842 | -63.14272 | 2  | 12 | 22 | 23 | 3 | 23.3 | 83.5 | 5  | 1.667  | 0.113 | 0.465 | 0.008 | 0.007 |
| 357 | Coari | Coari | -4.12891 | -63.12771 | 2  | 12 | 22 | 23 | 2 | 23.5 | 84.2 | 13 | 6.500  | 0.145 | 0.493 | 0.024 | 0.032 |
| 358 | Coari | Coari | -4.12891 | -63.12771 | 3  | 12 | 22 | 21 | 2 | 23.8 | 83.8 | 1  | 0.500  | 0.194 | 0.477 | 0.000 | 0.001 |
| 359 | Coari | Coari | -4.16609 | -63.11449 | 4  | 12 | 22 | 18 | 2 | 26.2 | 78.6 | 31 | 15.500 | 0.581 | 0.269 | 0.061 | 0.078 |
| 360 | Coari | Coari | -4.16609 | -63.11449 | 4  | 12 | 22 | 19 | 2 | 25.2 | 81.8 | 29 | 14.500 | 0.419 | 0.397 | 0.057 | 0.073 |
| 361 | Coari | Coari | -4.16609 | -63.11449 | 4  | 12 | 22 | 20 | 2 | 24.9 | 83.6 | 49 | 24.500 | 0.371 | 0.469 | 0.098 | 0.125 |
| 362 | Coari | Coari | -4.12891 | -63.12771 | 4  | 12 | 22 | 21 | 2 | 23.8 | 83.8 | 1  | 0.500  | 0.194 | 0.477 | 0.000 | 0.001 |
| 363 | Coari | Coari | -4.16609 | -63.11449 | 4  | 12 | 22 | 21 | 2 | 24.5 | 84.6 | 47 | 23.500 | 0.306 | 0.509 | 0.093 | 0.119 |
| 364 | Coari | Coari | -4.16609 | -63.11449 | 4  | 12 | 22 | 22 | 2 | 24.1 | 85.4 | 35 | 17.500 | 0.242 | 0.541 | 0.069 | 0.089 |
| 365 | Coari | Coari | -4.16609 | -63.11449 | 4  | 12 | 22 | 23 | 2 | 23.8 | 85.8 | 18 | 9.000  | 0.194 | 0.557 | 0.035 | 0.045 |
| 366 | Coari | Coari | -4.11717 | -63.12378 | 5  | 12 | 22 | 18 | 2 | 27.3 | 77.6 | 6  | 3.000  | 0.758 | 0.228 | 0.010 | 0.014 |
| 367 | Coari | Coari | -4.13259 | -63.09098 | 5  | 12 | 22 | 19 | 3 | 25.5 | 81.8 | 2  | 0.667  | 0.468 | 0.397 | 0.002 | 0.002 |
| 368 | Coari | Coari | -4.11717 | -63.12378 | 5  | 12 | 22 | 19 | 2 | 26.6 | 80.8 | 28 | 14.000 | 0.645 | 0.357 | 0.055 | 0.071 |
| 369 | Coari | Coari | -4.13259 | -63.09098 | 5  | 12 | 22 | 20 | 3 | 24.8 | 82.9 | 2  | 0.667  | 0.355 | 0.441 | 0.002 | 0.002 |
| 370 | Coari | Coari | -4.11717 | -63.12378 | 5  | 12 | 22 | 20 | 2 | 25.2 | 84.5 | 31 | 15.500 | 0.419 | 0.505 | 0.061 | 0.078 |
| 371 | Coari | Coari | -4.12891 | -63.12771 | 5  | 12 | 22 | 21 | 2 | 23.8 | 83.8 | 1  | 0.500  | 0.194 | 0.477 | 0.000 | 0.001 |
| 372 | Coari | Coari | -4.13259 | -63.09098 | 5  | 12 | 22 | 21 | 3 | 24.4 | 83.8 | 2  | 0.667  | 0.290 | 0.477 | 0.002 | 0.002 |
| 373 | Coari | Coari | -4.11717 | -63.12378 | 5  | 12 | 22 | 21 | 2 | 24.7 | 85.0 | 11 | 5.500  | 0.339 | 0.525 | 0.020 | 0.027 |
| 374 | Coari | Coari | -4.13259 | -63.09098 | 5  | 12 | 22 | 22 | 3 | 24.1 | 84.0 | 5  | 1.667  | 0.242 | 0.485 | 0.008 | 0.007 |
| 375 | Coari | Coari | -4.13259 | -63.09098 | 5  | 12 | 22 | 23 | 3 | 23.9 | 84.5 | 2  | 0.667  | 0.210 | 0.505 | 0.002 | 0.002 |
| 376 | Coari | Coari | -4.12891 | -63.12771 | 6  | 12 | 22 | 21 | 2 | 23.8 | 83.8 | 1  | 0.500  | 0.194 | 0.477 | 0.000 | 0.001 |
| 377 | Coari | Coari | -4.12891 | -63.12771 | 7  | 12 | 22 | 21 | 2 | 23.8 | 83.8 | 1  | 0.500  | 0.194 | 0.477 | 0.000 | 0.001 |
| 378 | Coari | Coari | -4.12891 | -63.12771 | 8  | 12 | 22 | 21 | 2 | 23.8 | 83.8 | 1  | 0.500  | 0.194 | 0.477 | 0.000 | 0.001 |
| 379 | Coari | Coari | -4.10223 | -63.03399 | 9  | 12 | 22 | 18 | 2 | 26.1 | 79.3 | 34 | 17.000 | 0.565 | 0.297 | 0.067 | 0.086 |
| 380 | Coari | Coari | -4.10223 | -63.03399 | 9  | 12 | 22 | 19 | 2 | 25.6 | 81.7 | 17 | 8.500  | 0.484 | 0.393 | 0.033 | 0.042 |
| 381 | Coari | Coari | -4.10223 | -63.03399 | 9  | 12 | 22 | 20 | 2 | 25.4 | 82.5 | 15 | 7.500  | 0.452 | 0.425 | 0.028 | 0.037 |
| 382 | Coari | Coari | -4.10223 | -63.03399 | 9  | 12 | 22 | 21 | 2 | 24.8 | 83.6 | 18 | 9.000  | 0.355 | 0.469 | 0.035 | 0.045 |
| 383 | Coari | Coari | -4.10223 | -63.03399 | 9  | 12 | 22 | 22 | 2 | 24.4 | 84.5 | 20 | 10.000 | 0.290 | 0.505 | 0.039 | 0.050 |
| 384 | Coari | Coari | -4.10223 | -63.03399 | 9  | 12 | 22 | 23 | 2 | 24.3 | 84.4 | 10 | 5.000  | 0.274 | 0.501 | 0.018 | 0.024 |

(B) Per-site database

| ZONE | SITEID | CITY | LON | LAT | Temp_Min | Temp_Max | Temp_Aver | Humid_Min | Humid_Max | Humid_Aver | TBR_Tot | TBR_Aver | HBR_Tot | HBR_Aver | N_Temp_Min | N_Temp_Max | N_Temp_Aver | N_Humid_Min | N_Humid_Max | N_Humid_Aver | N_TBR_Tot | N_TBR_Aver | N_HBR_Tot | N_HBR_Aver | R100_Forest_Formation | R100_Floodable_Habitat | R100_Human_Changed | R100_Water | R250_Forest_Formation | R250_Floodable_Habitat | R250_Human_Changed | R250_Water | R500_Forest_Formation | R500_Floodable_Habitat | R500_Human_Changed | R500_Water |   |
|------|--------|------|-----|-----|----------|----------|-----------|-----------|-----------|------------|---------|----------|---------|----------|------------|------------|-------------|-------------|-------------|--------------|-----------|------------|-----------|------------|-----------------------|------------------------|--------------------|------------|-----------------------|------------------------|--------------------|------------|-----------------------|------------------------|--------------------|------------|---|
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 4       | 1        | 2       | 0        | 7          | 6          | 7           | 4           | 4           | 4            | 0         | 0          | 0         | 0          | 2                     | 0                      | 9                  | 0          | 2                     | 1                      | 5                  | 0          | 3                     | 1                      | 3                  | 1          |   |
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 4       | 8        | 2       | 4        | 2          | 3          | 2           | 4           | 5           | 5            | 1         | 1          | 2         | 2          | 6                     | 0                      | 3                  | 0          | 8                     | 0                      | 1                  | 0          | 8                     | 1                      | 9                  | 0          |   |
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 1       | 2        | 4       | 0        | 1          | 6          | 3           | 2           | 4           | 4            | 0         | 0          | 0         | 0          | 0                     | 0                      | 0                  | 0          | 2                     | 3                      | 9                  | 0          | 2                     | 1                      | 6                  | 0          |   |
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 3       | 6        | 9       | 1        | 2          | 6          | 4           | 2           | 5           | 4            | 1         | 1          | 0         | 0          | 4                     | 0                      | 5                  | 0          | 5                     | 0                      | 2                  | 2          | 6                     | 0                      | 6                  | 3          |   |
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 1       | 1        | 6       | 0        | 6          | 6          | 5           | 4           | 5           | 5            | 0         | 0          | 0         | 0          | 2                     | 5                      | 7                  | 0          | 4                     | 6                      | 4                  | 0          | 5                     | 5                      | 4                  | 0          |   |
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 1       | 2        | 5       | 1        | 4          | 4          | 4           | 5           | 4           | 4            | 0         | 0          | 0         | 0          | 5                     | 0                      | 9                  | 0          | 6                     | 0                      | 3                  | 0          | 8                     | 0                      | 1                  | 0          |   |
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 4       | 7        | 4       | 7        | 1          | 5          | 3           | 3           | 4           | 4            | 1         | 1          | 4         | 4          | 1                     | 0                      | 0                  | 9          | 0                     | 2                      | 0                  | 9          | 0                     | 2                      | 1                  | 0          |   |
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 2       | 2        | 1       | 1        | 6          | 3          | 5           | 2           | 4           | 2            | 3         | 0          | 0         | 0          | 8                     | 0                      | 1                  | 0          | 8                     | 0                      | 1                  | 0          | 8                     | 0                      | 1                  | 0          |   |
| Ata  | S      | Atal | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 7       | 1        | 3       | 6        | 5          | 6          | 2           | 2           | 4           | 4            | 2         | 2          | 3         | 3          | 5                     | 0                      | 4                  | 0          | 8                     | 0                      | 1                  | 0          | 8                     | 0                      | 1                  | 0          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 2       | 4        | 9       | 1        | 2          | 1          | 2           | 1           | 4           | 3            | 4         | 1          | 0         | 0          | 7                     | 2                      | 2                  | 0          | 5                     | 1                      | 3                  | 0          | 2                     | 1                      | 6                  | 0          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 4       | 6        | 1       | 1        | 3          | 6          | 4           | 3           | 4           | 4            | 1         | 1          | 1         | 0          | 4                     | 0                      | 5                  | 0          | 6                     | 4                      | 2                  | 3          | 6                     | 7                      | 2                  | 1          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 4       | 8        | 2       | 4        | 2          | 3          | 2           | 4           | 5           | 5            | 1         | 1          | 2         | 2          | 6                     | 0                      | 2                  | 1          | 5                     | 1                      | 2                  | 6          | 5                     | 2                      | 1                  | 6          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 1       | 3        | 4       | 1        | 3          | 9          | 6           | 2           | 3           | 4            | 0         | 0          | 0         | 9          | 5                     | 0                      | 0                  | 7          | 2                     | 3                      | 9                  | 0          | 2                     | 1                      | 6                  | 0          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 6       | 1        | 2       | 3        | 4          | 6          | 5           | 6           | 5           | 6            | 2         | 2          | 2         | 1          | 4                     | 0                      | 5                  | 0          | 5                     | 2                      | 1                  | 2          | 5                     | 2                      | 1                  | 7          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 7       | 1        | 2       | 4        | 4          | 7          | 6           | 4           | 5           | 5            | 2         | 2          | 2         | 2          | 3                     | 0                      | 6                  | 8          | 6                     | 7                      | 2                  | 6          | 6                     | 2                      | 9                  | 2          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 2       | 4        | 1       | 2        | 2          | 6          | 4           | 3           | 4           | 4            | 0         | 0          | 1         | 1          | 2                     | 0                      | 7                  | 0          | 3                     | 9                      | 5                  | 0          | 5                     | 1                      | 3                  | 0          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 1       | 5        | 8       | 2        | 5          | 5          | 5           | 5           | 5           | 5            | 0         | 1          | 0         | 1          | 6                     | 0                      | 3                  | 0          | 9                     | 0                      | 9                  | 0          | 8                     | 0                      | 1                  | 0          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 1       | 4        | 9       | 2        | 5          | 0          | 0           | 5           | 5           | 4            | 0         | 0          | 0         | 1          | 2                     | 0                      | 7                  | 0          | 4                     | 0                      | 4                  | 5          | 7                     | 1                      | 2                  | 2          |   |
| Ata  | S      | Ben  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 1       | 2        | 7       | 1        | 2          | 5          | 4           | 2           | 3           | 2            | 0         | 0          | 0         | 0          | 4                     | 0                      | 5                  | 0          | 6                     | 0                      | 3                  | 0          | 7                     | 0                      | 2                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 5       | 1        | 2       | 0        | 2          | 5          | 3           | 2           | 4           | 3            | 0         | 0          | 0         | 0          | 0                     | 0                      | 1                  | 0          | 5                     | 2                      | 6                  | 0          | 1                     | 3                      | 4                  | 7          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 3       | 6        | 1       | 2        | 4          | 5          | 4           | 4           | 4           | 4            | 1         | 1          | 1         | 1          | 1                     | 4                      | 3                  | 0          | 2                     | 3                      | 2                  | 1          | 2                     | 1                      | 2                  | 3          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 1       | 2        | 6       | 1        | 5          | 6          | 5           | 1           | 3           | 2            | 5         | 5          | 7         | 6          | 0                     | 0                      | 1                  | 0          | 2                     | 1                      | 8                  | 0          | 1                     | 3                      | 4                  | 7          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 2       | 3        | 1       | 1        | 2          | 7          | 5           | 2           | 3           | 2            | 8         | 8          | 1         | 1          | 2                     | 8                      | 8                  | 0          | 3                     | 1                      | 5                  | 0          | 1                     | 3                      | 4                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 7          | 6       | 1        | 3       | 5        | 5          | 8          | 7           | 0           | 2           | 1            | 2         | 2          | 3         | 3          | 0                     | 4                      | 5                  | 0          | 8                     | 3                      | 5                  | 0          | 7                     | 3                      | 6                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 7          | 7       | 1        | 1       | 5        | 9          | 7          | 8           | 8           | 2           | 2            | 2         | 4          | 4         | 5          | 5                     | 5                      | 0                  | 9          | 0                     | 3                      | 5                  | 6          | 0                     | 2                      | 1                  | 5          | 1 |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 5       | 9        | 1       | 3        | 6          | 6          | 6           | 2           | 3           | 2            | 2         | 2          | 2         | 2          | 2                     | 4                      | 3                  | 0          | 1                     | 3                      | 4                  | 0          | 1                     | 3                      | 5                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 7          | 2       | 3        | 1       | 1        | 5          | 6          | 5           | 7           | 2           | 2            | 8         | 8          | 1         | 1          | 2                     | 0                      | 9                  | 0          | 9                     | 2                      | 6                  | 0          | 1                     | 2                      | 6                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 7          | 7       | 1        | 2       | 7        | 1          | 4          | 8           | 6           | 8           | 2            | 1         | 6          | 6         | 8          | 8                     | 4                      | 5                  | 5          | 0                     | 4                      | 2                  | 2          | 0                     | 3                      | 2                  | 4          | 0 |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 7         | 7          | 1       | 1        | 5       | 9        | 8          | 7          | 9           | 2           | 1           | 1            | 4         | 4          | 6         | 6          | 4                     | 0                      | 5                  | 0          | 3                     | 5                      | 5                  | 8          | 1                     | 3                      | 2                  | 2          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 7         | 7          | 7       | 1        | 3       | 6        | 1          | 1          | 1           | 0           | 0           | 0            | 2         | 2          | 4         | 4          | 2                     | 5                      | 4                  | 0          | 1                     | 3                      | 5                  | 0          | 1                     | 6                      | 2                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 1       | 3        | 9       | 1        | 2          | 6          | 4           | 3           | 3           | 3            | 7         | 7          | 1         | 1          | 4                     | 4                      | 1                  | 0          | 2                     | 6                      | 1                  | 0          | 3                     | 5                      | 1                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 9       | 1        | 3       | 5        | 0          | 5          | 4           | 2           | 4           | 3            | 3         | 3          | 3         | 3          | 8                     | 6                      | 3                  | 0          | 1                     | 6                      | 1                  | 0          | 1                     | 6                      | 1                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 4       | 1        | 1       | 3        | 2          | 3          | 2           | 1           | 4           | 3            | 1         | 2          | 1         | 0          | 1                     | 0                      | 0                  | 2          | 7                     | 4                      | 0                  | 3          | 5                     | 9                      | 0                  |            |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 7          | 8       | 1        | 4       | 6        | 5          | 5          | 5           | 2           | 9           | 3            | 3         | 4          | 4         | 0          | 9                     | 8                      | 9                  | 4          | 2                     | 3                      | 5                  | 2          | 5                     | 2                      | 1                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 3       | 5        | 1       | 2        | 4          | 3          | 3           | 3           | 3           | 3            | 1         | 1          | 1         | 5          | 9                     | 4                      | 0                  | 4          | 1                     | 3                      | 0                  | 4          | 3                     | 1                      | 0                  |            |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 2       | 4        | 8       | 1        | 2          | 7          | 4           | 2           | 4           | 3            | 1         | 1          | 9         | 9          | 2                     | 1                      | 8                  | 0          | 6                     | 5                      | 4                  | 0          | 2                     | 5                      | 1                  | 0          |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 1       | 2        | 6       | 1        | 2          | 5          | 3           | 2           | 2           | 4            | 4         | 6          | 6         | 3          | 2                     | 4                      | 0                  | 4          | 4                     | 1                      | 0                  | 6          | 2                     | 7                      | 0                  |            |   |
| Bar  | S      | Bar  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 1       | 1        | 5       | 8        | 4          | 2          | 3           | 4           | 3           | 3            | 4         | 4          | 5         | 5          | 9                     | 5                      | 0                  | 5          | 2                     | 1                      | 0                  | 5          | 3                     | 7                      | 0                  |            |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 1       | 2        | 8       | 1        | 7          | 4          | 6           | 7           | 6           | 6            | 0         | 0          | 0         | 0          | 0                     | 1                      | 0                  | 0          | 1                     | 0                      | 5                  | 0          | 9                     | 0                      | 9                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 9         | 9         | 9          | 2       | 1        | 1       | 0        | 3          | 1          | 1           | 1           | 8           | 9            | 0         | 0          | 0         | 0          | 1                     | 0                      | 8                  | 0          | 1                     | 0                      | 8                  | 0          | 1                     | 0                      | 8                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 9         | 9          | 9       | 1        | 4       | 0        | 3          | 5          | 4           | 7           | 9           | 8            | 0         | 0          | 0         | 0          | 0                     | 1                      | 0                  | 3          | 0                     | 9                      | 0                  | 7          | 0                     | 9                      | 0                  |            |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 8         | 8          | 3       | 1        | 1       | 0        | 4          | 2          | 3           | 7           | 5           | 6            | 0         | 0          | 0         | 0          | 2                     | 0                      | 9                  | 0          | 2                     | 0                      | 7                  | 0          | 3                     | 0                      | 6                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 7         | 9         | 8          | 3       | 5        | 1       | 2        | 3          | 8          | 5           | 3           | 6           | 5            | 1         | 1          | 1         | 1          | 0                     | 0                      | 1                  | 0          | 3                     | 0                      | 6                  | 0          | 6                     | 0                      | 3                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 9         | 9          | 1       | 3        | 5       | 1        | 4          | 6          | 5           | 7           | 9           | 9            | 0         | 0          | 0         | 0          | 7                     | 0                      | 2                  | 0          | 5                     | 0                      | 4                  | 0          | 7                     | 0                      | 2                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 9         | 9          | 5       | 8        | 2       | 4        | 4          | 4          | 4           | 7           | 9           | 8            | 1         | 1          | 2         | 2          | 3                     | 0                      | 9                  | 0          | 1                     | 0                      | 8                  | 0          | 4                     | 0                      | 5                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 9         | 9          | 4       | 7        | 2       | 3        | 4          | 3          | 3           | 7           | 8           | 8            | 1         | 1          | 2         | 2          | 4                     | 0                      | 6                  | 0          | 3                     | 0                      | 6                  | 0          | 5                     | 0                      | 4                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 9         | 9          | 6       | 1        | 3       | 5        | 3          | 4          | 4           | 8           | 1           | 9            | 2         | 2          | 3         | 3          | 2                     | 0                      | 7                  | 0          | 3                     | 0                      | 6                  | 0          | 5                     | 0                      | 4                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 9         | 9         | 9          | 1       | 2        | 6       | 1        | 3          | 3          | 3           | 9           | 9           | 1            | 0         | 0          | 0         | 0          | 1                     | 0                      | 8                  | 0          | 3                     | 0                      | 6                  | 0          | 5                     | 0                      | 4                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 9         | 9          | 9       | 2        | 4       | 1        | 4          | 2          | 3           | 8           | 1           | 9            | 0         | 0          | 0         | 0          | 1                     | 0                      | 8                  | 0          | 3                     | 0                      | 6                  | 0          | 6                     | 0                      | 3                  | 0          |   |
| Cal  | S      | Cal  | -   | -   | 2        | 2        | 2         | 8         | 9         | 9          | 7       | 1        | 3       | 5        | 2          | 2          | 6           | 7           | 7           | 2            | 2         | 3          | 3         | 3          | 0                     | 6                      | 0                  | 4          | 0                     | 5                      | 0                  | 6          | 0                     | 3                      | 0                  |            |   |
| Co   | S      | Coa  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 9       | 1        | 4       | 7        | 1          | 2          | 1           | 2           | 3           | 3            | 3         | 3          | 4         | 4          | 3                     | 0                      | 6                  | 0          | 3                     | 0                      | 6                  | 0          | 5                     | 2                      | 4                  | 0          |   |
| Co   | S      | Coa  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 1       | 1        | 5       | 9        | 4          | 5          | 4           | 3           | 3           | 3            | 4         | 4          | 6         | 5          | 3                     | 9                      | 5                  | 0          | 4                     | 2                      | 3                  | 0          | 5                     | 1                      | 2                  | 0          |   |
| Co   | S      | Coa  | -   | -   | 2        | 2        | 2         | 7         | 8         | 8          | 2       | 3        | 7       | 1        | 1          | 4          | 2           | 2           | 3           | 3            | 8         | 8          | 7         | 8          | 0                     | 9                      | 0                  | 3          | 1                     | 5                      | 0                  | 3          | 1                     | 4                      | 0                  |            |   |
| Co   | S      | Coa  | -   | -   | 2        | 2        | 2         | 7         |           |            |         |          |         |          |            |            |             |             |             |              |           |            |           |            |                       |                        |                    |            |                       |                        |                    |            |                       |                        |                    |            |   |

TABLE II  
Zone normalized database including per-site data used for the PCA analysis

| ID | SITEID | ZONE             | LON    | LAT   | HBR    | Temperature Max | Humidity Min | Forest Formation | Floodable Vegetation | Human Changed | Water Bodies |
|----|--------|------------------|--------|-------|--------|-----------------|--------------|------------------|----------------------|---------------|--------------|
| 1  | SITE1  | Atalaia-Benjamin | -70.20 | -4.36 | 0.11   | 64.81           | 49.76        | 36.45            | 18.45                | 30.52         | 14.58        |
| 2  | SITE2  | Atalaia-Benjamin | -70.18 | -4.37 | 2.38   | 38.89           | 43.06        | 88.81            | 1.14                 | 9.47          | 0.57         |
| 3  | SITE3  | Atalaia-Benjamin | -70.20 | -4.37 | 0.20   | 61.11           | 28.23        | 21.45            | 12.49                | 66.06         | 0.00         |
| 4  | SITE4  | Atalaia-Benjamin | -70.24 | -4.37 | 0.66   | 64.81           | 27.27        | 62.84            | 0.00                 | 6.02          | 31.14        |
| 5  | SITE5  | Atalaia-Benjamin | -70.19 | -4.38 | 0.15   | 64.81           | 49.76        | 51.43            | 5.71                 | 42.86         | 0.00         |
| 6  | SITE6  | Atalaia-Benjamin | -70.17 | -4.39 | 0.58   | 42.59           | 53.11        | 88.04            | 0.00                 | 11.96         | 0.00         |
| 7  | SITE7  | Atalaia-Benjamin | -70.16 | -4.41 | 4.51   | 59.26           | 30.62        | 96.25            | 0.00                 | 2.50          | 1.25         |
| 8  | SITE8  | Atalaia-Benjamin | -70.15 | -4.42 | 0.33   | 35.19           | 48.80        | 87.05            | 0.00                 | 12.95         | 0.00         |
| 9  | SITE9  | Atalaia-Benjamin | -70.14 | -4.42 | 3.63   | 61.11           | 28.23        | 84.22            | 0.00                 | 15.78         | 0.00         |
| 10 | SITE10 | Atalaia-Benjamin | -70.00 | -4.39 | 0.66   | 12.96           | 47.37        | 20.78            | 16.32                | 62.90         | 0.00         |
| 11 | SITE11 | Atalaia-Benjamin | -70.04 | -4.39 | 0.80   | 64.81           | 37.80        | 65.79            | 7.32                 | 25.86         | 1.03         |
| 12 | SITE12 | Atalaia-Benjamin | -70.03 | -4.40 | 2.31   | 33.33           | 46.41        | 53.74            | 25.85                | 14.29         | 6.12         |
| 13 | SITE13 | Atalaia-Benjamin | -69.95 | -4.41 | 0.30   | 90.74           | 24.88        | 69.06            | 29.00                | 1.48          | 0.46         |
| 14 | SITE14 | Atalaia-Benjamin | -70.04 | -4.41 | 1.91   | 62.96           | 64.59        | 57.43            | 23.27                | 11.58         | 7.72         |
| 15 | SITE15 | Atalaia-Benjamin | -70.05 | -4.42 | 2.31   | 75.93           | 47.37        | 63.33            | 24.72                | 9.57          | 2.39         |
| 16 | SITE16 | Atalaia-Benjamin | -70.06 | -4.42 | 1.12   | 66.67           | 39.71        | 51.77            | 18.24                | 29.99         | 0.00         |
| 17 | SITE17 | Atalaia-Benjamin | -70.13 | -4.43 | 1.54   | 55.56           | 50.72        | 88.10            | 0.00                 | 11.67         | 0.23         |
| 18 | SITE18 | Atalaia-Benjamin | -70.08 | -4.44 | 1.24   | 0.00            | 58.85        | 74.97            | 1.48                 | 20.82         | 2.73         |
| 19 | SITE19 | Atalaia-Benjamin | -70.11 | -4.44 | 0.44   | 55.56           | 29.67        | 72.75            | 0.00                 | 27.25         | 0.00         |
| 20 | SITE20 | Barcelos         | -62.95 | -0.95 | 0.08   | 53.70           | 29.19        | 10.96            | 36.87                | 44.63         | 7.53         |
| 21 | SITE21 | Barcelos         | -62.94 | -0.96 | 1.08   | 50.00           | 43.06        | 23.54            | 18.03                | 27.90         | 30.54        |
| 22 | SITE22 | Barcelos         | -62.94 | -0.97 | 6.88   | 61.11           | 15.31        | 17.43            | 32.68                | 41.97         | 7.91         |
| 23 | SITE23 | Barcelos         | -62.94 | -0.97 | 11.12  | 74.07           | 24.40        | 16.10            | 35.62                | 48.29         | 0.00         |
| 24 | SITE24 | Barcelos         | -62.93 | -0.98 | 35.11  | 88.89           | 0.00         | 7.88             | 31.74                | 60.39         | 0.00         |
| 25 | SITE25 | Barcelos         | -62.92 | -0.98 | 5.61   | 81.48           | 20.10        | 25.77            | 10.54                | 51.89         | 11.80        |
| 26 | SITE26 | Barcelos         | -62.93 | -0.98 | 21.54  | 62.96           | 24.40        | 10.64            | 33.30                | 56.06         | 0.00         |
| 27 | SITE27 | Barcelos         | -62.93 | -0.98 | 11.28  | 66.67           | 7.66         | 10.05            | 20.32                | 69.63         | 0.00         |
| 28 | SITE28 | Barcelos         | -62.92 | -0.98 | 8.31   | 88.89           | 8.13         | 32.31            | 26.03                | 41.67         | 0.00         |
| 29 | SITE29 | Barcelos         | -62.91 | -0.98 | 62.14  | 79.63           | 26.32        | 16.95            | 33.91                | 23.14         | 26.00        |
| 30 | SITE30 | Barcelos         | -62.93 | -0.98 | 40.40  | 100.00          | 0.48         | 10.07            | 61.33                | 28.60         | 0.00         |
| 31 | SITE31 | Barcelos         | -62.94 | -0.98 | 100.00 | 62.96           | 30.14        | 36.07            | 53.08                | 10.84         | 0.00         |
| 32 | SITE32 | Barcelos         | -62.93 | -0.99 | 34.75  | 57.41           | 22.97        | 19.70            | 68.91                | 11.39         | 0.00         |
| 33 | SITE33 | Barcelos         | -62.94 | -0.99 | 1.87   | 38.89           | 17.22        | 34.55            | 55.76                | 9.69          | 0.00         |
| 34 | SITE34 | Barcelos         | -62.92 | -0.99 | 44.85  | 51.85           | 5.26         | 20.91            | 50.29                | 27.54         | 1.26         |
| 35 | SITE35 | Barcelos         | -62.92 | -0.99 | 1.60   | 37.04           | 30.14        | 48.46            | 36.49                | 14.94         | 0.11         |
| 36 | SITE36 | Barcelos         | -62.93 | -0.99 | 90.96  | 79.63           | 25.36        | 23.37            | 58.65                | 17.53         | 0.46         |
| 37 | SITE37 | Barcelos         | -62.92 | -0.99 | 67.03  | 51.85           | 22.49        | 69.19            | 23.02                | 7.79          | 0.00         |
| 38 | SITE38 | Barcelos         | -62.92 | -1.00 | 5.50   | 27.78           | 45.45        | 56.18            | 36.84                | 6.98          | 0.00         |
| 39 | SITE39 | Calcoene         | -51.64 | 2.29  | 0.55   | 4.63            | 72.49        | 5.15             | 0.00                 | 94.85         | 0.00         |
| 40 | SITE40 | Calcoene         | -51.64 | 2.29  | 0.00   | 10.19           | 100.00       | 17.71            | 0.00                 | 82.29         | 0.00         |
| 41 | SITE41 | Calcoene         | -51.64 | 2.31  | 0.26   | 51.85           | 79.19        | 7.62             | 0.00                 | 92.38         | 0.00         |
| 42 | SITE42 | Calcoene         | -51.64 | 2.31  | 0.17   | 21.30           | 73.92        | 39.47            | 0.00                 | 60.53         | 0.00         |
| 43 | SITE43 | Calcoene         | -51.66 | 2.31  | 1.43   | 87.04           | 33.01        | 61.10            | 0.00                 | 38.90         | 0.00         |
| 44 | SITE44 | Calcoene         | -51.65 | 2.32  | 0.88   | 68.52           | 73.68        | 72.49            | 0.00                 | 27.51         | 0.00         |
| 45 | SITE45 | Calcoene         | -51.65 | 2.34  | 2.42   | 43.52           | 74.64        | 44.65            | 0.00                 | 55.35         | 0.00         |
| 46 | SITE46 | Calcoene         | -51.64 | 2.34  | 2.15   | 35.19           | 77.03        | 50.46            | 0.00                 | 49.54         | 0.00         |
| 47 | SITE47 | Calcoene         | -51.65 | 2.37  | 3.41   | 45.37           | 85.65        | 50.29            | 0.00                 | 49.71         | 0.00         |
| 48 | SITE48 | Calcoene         | -51.65 | 2.38  | 0.46   | 30.56           | 94.50        | 51.14            | 0.00                 | 48.86         | 0.00         |
| 49 | SITE49 | Calcoene         | -51.67 | 2.40  | 0.41   | 23.15           | 84.93        | 64.06            | 0.00                 | 35.48         | 0.46         |
| 50 | SITE50 | Calcoene         | -51.67 | 2.40  | 3.52   | 21.30           | 66.75        | 63.69            | 0.00                 | 36.31         | 0.00         |
| 51 | SITE51 | Coari            | -63.04 | -4.09 | 4.68   | 29.63           | 22.97        | 51.88            | 2.51                 | 45.38         | 0.23         |
| 52 | SITE52 | Coari            | -63.03 | -4.10 | 5.94   | 50.00           | 35.41        | 58.09            | 16.17                | 25.74         | 0.00         |
| 53 | SITE53 | Coari            | -63.04 | -4.11 | 7.85   | 40.74           | 23.92        | 39.02            | 19.79                | 41.19         | 0.00         |
| 54 | SITE54 | Coari            | -63.03 | -4.11 | 4.82   | 42.59           | 29.19        | 36.77            | 14.09                | 24.28         | 24.86        |
| 55 | SITE55 | Coari            | -63.06 | -4.12 | 8.42   | 42.59           | 29.67        | 52.61            | 0.00                 | 47.27         | 0.11         |
| 56 | SITE56 | Coari            | -63.08 | -4.12 | 6.64   | 35.19           | 41.15        | 43.17            | 26.08                | 30.75         | 0.00         |
| 57 | SITE57 | Coari            | -63.12 | -4.12 | 5.94   | 72.22           | 27.27        | 17.28            | 47.03                | 35.70         | 0.00         |
| 58 | SITE58 | Coari            | -63.13 | -4.13 | 0.85   | 18.52           | 35.89        | 6.38             | 33.49                | 60.14         | 0.00         |
| 59 | SITE59 | Coari            | -63.14 | -4.13 | 1.28   | 12.96           | 43.54        | 32.05            | 40.34                | 27.61         | 0.00         |
| 60 | SITE60 | Coari            | -63.09 | -4.13 | 0.24   | 38.89           | 47.37        | 47.09            | 0.00                 | 51.31         | 1.60         |



|    |        |       |        |       |       |       |       |       |       |       |      |
|----|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| 61 | SITE61 | Coari | -63.11 | -4.14 | 2.38  | 77.78 | 29.67 | 31.89 | 25.60 | 42.51 | 0.00 |
| 62 | SITE62 | Coari | -63.14 | -4.15 | 11.72 | 50.00 | 18.18 | 29.92 | 40.39 | 28.44 | 1.25 |
| 63 | SITE63 | Coari | -63.11 | -4.17 | 11.17 | 51.85 | 32.06 | 83.28 | 1.02  | 15.70 | 0.00 |
| 64 | SITE64 | Coari | -63.18 | -4.17 | 21.90 | 68.52 | 36.84 | 85.06 | 1.37  | 11.74 | 1.82 |
| 65 | SITE65 | Coari | -63.16 | -4.17 | 5.21  | 61.11 | 7.66  | 62.60 | 17.22 | 16.31 | 3.88 |
| 66 | SITE66 | Coari | -63.19 | -4.18 | 4.92  | 51.85 | 46.41 | 91.02 | 0.00  | 8.98  | 0.00 |
| 67 | SITE67 | Coari | -63.17 | -4.20 | 6.97  | 68.52 | 15.79 | 67.84 | 0.00  | 32.16 | 0.00 |
| 68 | SITE68 | Coari | -63.18 | -4.22 | 11.06 | 51.85 | 27.75 | 79.11 | 0.80  | 20.09 | 0.00 |
| 69 | SITE69 | Coari | -63.19 | -4.24 | 1.94  | 66.67 | 44.50 | 75.60 | 0.00  | 24.40 | 0.00 |
| 70 | SITE70 | Coari | -63.18 | -4.26 | 0.86  | 61.11 | 48.33 | 99.08 | 0.00  | 0.92  | 0.00 |

TABLE III  
Data analysis results: multiple regression

|       | Valid N | Mean     | Minimum  | Maximum  | SD       |
|-------|---------|----------|----------|----------|----------|
| TEMP  | 384     | 25.02695 | 22.60000 | 28.80000 | 1.165601 |
| HUMID | 384     | 83.50117 | 71.90000 | 96.85000 | 4.611949 |

SD: standard deviation; TEMP: temperature; HUMID: humidity.

TABLE IV  
Data analysis results: relationship between humidity and temperature (per event database).  
TEMP:HUMID:  $y = 137.358 - 2.152 \cdot x$ ;  $r = -0.5439$ ,  $p = 0.0000$ ;  $r^2 = 0.2958$

|                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Dependent: HUMID</p> <p>Multiple R = .54387424</p> <p>F = 160.4589</p> <p>R<sup>2</sup> = .29579919</p> <p>df = 1,382</p> <p>No. of cases: 384</p> <p>adjusted R<sup>2</sup> = .29395573</p> <p>p = 0.000000</p> <p>Standard error of estimate: 3.875256299</p> <p>Intercept: 137.35803615;</p> <p>Std.Error: 4.256263;</p> <p>t(382) = 32.272;</p> <p>p = 0.0000</p> <p>TEMP b* = -0.543874</p> | <p>Dependent: TEMP</p> <p>Multiple R = .54387424</p> <p>F = 160.4589</p> <p>R<sup>2</sup> = .29579919</p> <p>df = 1,382</p> <p>No. of cases: 384</p> <p>adjusted R<sup>2</sup> = .29395573</p> <p>p = 0.000000</p> <p>Standard error of estimate: .979412933</p> <p>Intercept: 36.504695212</p> <p>Std.Error: .9074741</p> <p>t(382) = 40.227</p> <p>p = 0.0000</p> <p>HUMID b* = -0.543874 (significant*)</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

TABLE V  
Linear mixed effect model outputs

|                                                                                                                             |            |            |           |         |          |              |   |     |   |   |
|-----------------------------------------------------------------------------------------------------------------------------|------------|------------|-----------|---------|----------|--------------|---|-----|---|---|
| Linear mixed model fit by REML. t-tests use Satterthwaite's method [lmerModLmerTest]                                        |            |            |           |         |          |              |   |     |   |   |
| Formula: Human Biting Rate ~ Humidity Minimum + Temperature Maximum + Forest Formation + Floodable Vegetation + (1   Zones) |            |            |           |         |          |              |   |     |   |   |
| REML criterion at convergence: 592.6                                                                                        |            |            |           |         |          |              |   |     |   |   |
| Scaled residuals:                                                                                                           |            |            |           |         |          |              |   |     |   |   |
| Min                                                                                                                         | 1Q         | Median     | 3Q        | Max     |          |              |   |     |   |   |
| -2.0449                                                                                                                     | -0.4566    | -0.0331    | 0.1636    | 3.9994  |          |              |   |     |   |   |
| Random effects:                                                                                                             |            |            |           |         |          |              |   |     |   |   |
| Groups                                                                                                                      | Variance   | Std.Dev.   |           |         |          |              |   |     |   |   |
| Zones (Intercept)                                                                                                           | 62.06      | 7.878      |           |         |          |              |   |     |   |   |
| Residual                                                                                                                    | 252.73     | 15.898     |           |         |          |              |   |     |   |   |
| Number of obs: 70, groups: Zones, 4                                                                                         |            |            |           |         |          |              |   |     |   |   |
| Fixed Effects Results:                                                                                                      |            |            |           |         |          |              |   |     |   |   |
| Predictor                                                                                                                   | Estimate   | Std. Error | df        | t value | Pr(> t ) | Significance |   |     |   |   |
| (Intercept)                                                                                                                 | -12.99     | 12.81      | 43.85     | -1.014  | 0.316    |              |   |     |   |   |
| Humidity_Minimum                                                                                                            | 0.0001762  | 0.1494     | 30.32     | 0.001   | 0.999    |              |   |     |   |   |
| Temperature_Maximum                                                                                                         | 0.1308     | 0.1096     | 64.68     | 1.193   | 0.237    |              |   |     |   |   |
| Forest_Formation                                                                                                            | 0.1653     | 0.0995     | 64.35     | 1.662   | 0.101    |              |   |     |   |   |
| Floodable_Vegetation                                                                                                        | 0.5093     | 0.1594     | 62.62     | 3.195   | 0.002    | **           |   |     |   |   |
| Significance codes: *** p < 0.001, ** p < 0.01, * p < 0.05, . p < 0.1                                                       |            |            |           |         |          |              |   |     |   |   |
| Fixed effects:                                                                                                              |            |            |           |         |          |              |   |     |   |   |
| Estimate                                                                                                                    | Std. Error | df         |           |         |          |              |   |     |   |   |
| (Intercept)                                                                                                                 | -1.299e+01 | 1.281e+01  | 4.385e+01 |         |          |              |   |     |   |   |
| Humidity_Minimum                                                                                                            | 1.762e-04  | 1.494e-01  | 3.032e+01 |         |          |              |   |     |   |   |
| Temperature_Maximum                                                                                                         | 1.308e-01  | 1.096e-01  | 6.468e+01 |         |          |              |   |     |   |   |
| Forest_Formation                                                                                                            | 1.653e-01  | 9.947e-02  | 6.435e+01 |         |          |              |   |     |   |   |
| Floodable_Vegetation                                                                                                        | 5.093e-01  | 1.594e-01  | 6.262e+01 |         |          |              |   |     |   |   |
| t value                                                                                                                     | Pr(> t )   |            |           |         |          |              |   |     |   |   |
| (Intercept)                                                                                                                 | -1.014     | 0.31602    |           |         |          |              |   |     |   |   |
| Humidity_Minimum                                                                                                            | 0.001      | 0.99907    |           |         |          |              |   |     |   |   |
| Temperature_Maximum                                                                                                         | 1.193      | 0.23736    |           |         |          |              |   |     |   |   |
| Forest_Formation                                                                                                            | 1.662      | 0.10147    |           |         |          |              |   |     |   |   |
| Floodable_Vegetation                                                                                                        | 3.195      | 0.00219    | **        |         |          |              |   |     |   |   |
| Correlation of Fixed Effects:                                                                                               |            |            |           |         |          |              |   |     |   |   |
| (Intr)                                                                                                                      | Hmdt_M     | Tmpr_M     | Frst_F    |         |          |              |   |     |   |   |
| Humdty_Mnmm                                                                                                                 | -0.738     |            |           |         |          |              |   |     |   |   |
| Tmprtr_Mxmm                                                                                                                 | -0.637     | 0.496      |           |         |          |              |   |     |   |   |
| Forst_Frmtn                                                                                                                 | -0.395     | -0.036     | -0.121    |         |          |              |   |     |   |   |
| Flodbl_Frst                                                                                                                 | -0.479     | 0.208      | -0.006    | 0.493   |          |              |   |     |   |   |
| ANOVA: Type III Analysis of Variance Table with Satterthwaite's method                                                      |            |            |           |         |          |              |   |     |   |   |
| Sum Sq                                                                                                                      | Mean Sq    | NumDF      | DenDF     |         |          |              |   |     |   |   |
| Humidity_Minimum                                                                                                            | 0.00       | 0.00       | 1         | 30.322  |          |              |   |     |   |   |
| Temperature_Maximum                                                                                                         | 359.50     | 359.50     | 1         | 64.675  |          |              |   |     |   |   |
| Forest_Formation                                                                                                            | 697.72     | 697.72     | 1         | 64.349  |          |              |   |     |   |   |
| Floodable_Vegetation                                                                                                        | 2580.01    | 2580.01    | 1         | 62.619  |          |              |   |     |   |   |
| F value                                                                                                                     | Pr(>F)     |            |           |         |          |              |   |     |   |   |
| Humidity_Minimum                                                                                                            | 0.0000     | 0.99907    |           |         |          |              |   |     |   |   |
| Temperature_Maximum                                                                                                         | 1.4224     | 0.23736    |           |         |          |              |   |     |   |   |
| Forest_Formation                                                                                                            | 2.7607     | 0.10147    |           |         |          |              |   |     |   |   |
| Floodable_Vegetation                                                                                                        | 10.2084    | 0.00219    | **        |         |          |              |   |     |   |   |
| ---                                                                                                                         |            |            |           |         |          |              |   |     |   |   |
| Signif. codes:                                                                                                              |            |            |           |         |          |              |   |     |   |   |
| 0                                                                                                                           | ****       | 0.001      | ***       | 0.01    | **       | 0.05         | . | 0.1 | ' | 1 |
| Coefficients                                                                                                                |            |            |           |         |          |              |   |     |   |   |
| "Preditor","Estimate","Std. Error","df","t value","Pr(> t )"                                                                |            |            |           |         |          |              |   |     |   |   |
| "(Intercept)",-12.987884230868,12.8050720196311,43.8476974436767,-1.01427654689928,0.316015138889666                        |            |            |           |         |          |              |   |     |   |   |
| "Humidity_Minimum",0.000176188276778656,0.14939816026843,30.3217265978391,0.00117932025710418,0.999066763655324             |            |            |           |         |          |              |   |     |   |   |
| "Temperature_Maximum",0.130754300591343,0.109632972756415,64.6751980507722,1.19265488569625,0.237361873440502               |            |            |           |         |          |              |   |     |   |   |
| "Forest_Formation",0.16527809528217,0.0994732845916158,64.349298453712,1.66153250051723,0.10147134114869                    |            |            |           |         |          |              |   |     |   |   |
| "Floodable_Vegetation",0.509331692869188,0.159412655022598,62.6193717369248,3.19505181566034,0.0021904863946417             |            |            |           |         |          |              |   |     |   |   |
| ANOVA Results:                                                                                                              |            |            |           |         |          |              |   |     |   |   |
| "Preditor","Sum Sq","Mean Sq","NumDF","DenDF","F value","Pr(>F)"                                                            |            |            |           |         |          |              |   |     |   |   |
| "Humidity_Minimum",0.000351502637037414,0.000351502637037414,1,30.3217265978391,1.39079626881628e-06,0.999066763655324      |            |            |           |         |          |              |   |     |   |   |
| "Temperature_Maximum",359.49648949025,359.49648949025,1,64.6751980507722,1.42242567637514,0.237361873440502                 |            |            |           |         |          |              |   |     |   |   |
| "Forest_Formation",697.72253835644,697.72253835644,1,64.349298453712,2.76069025027505,0.10147134114869                      |            |            |           |         |          |              |   |     |   |   |
| "Floodable_Vegetation",2580.00698671142,2580.00698671142,1,62.6193717369248,10.2083561047544,0.0021904863946417             |            |            |           |         |          |              |   |     |   |   |

TABLE VI

Temperature and humidity metrics and results tested by variable inflation factor

|                                                                                                                                                                                                     |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Library(usdm) in R language (Naimi, 2023)                                                                                                                                                           |           |
| <i>R script core &gt; vifcor(data[,c("N_HBR_Tot", "N_Temp_Min", "N_Temp_Max", "N_Temp_Aver", "N_Humid_Min", "N_Humid_Max", "N_Humid_Aver", "R500_Forest_Formation", "R500_Floodable_Habitat")])</i> |           |
| Results:                                                                                                                                                                                            |           |
| 1 variables from the 9 input variables have collinearity problem: N_Humid_Aver                                                                                                                      |           |
| After excluding the collinear variables, the linear correlation coefficients range between:                                                                                                         |           |
| min correlation ( R500_Forest_Formation ~ N_Temp_Max ): -0.0391849                                                                                                                                  |           |
| max correlation ( N_Temp_Aver ~ N_Temp_Max ): 0.848911                                                                                                                                              |           |
| VIFs of the remained variables:                                                                                                                                                                     |           |
| Variables                                                                                                                                                                                           | VIF       |
| 1- N_HBR_Tot:                                                                                                                                                                                       | 1.539563  |
| 2- N_Temp_Min:                                                                                                                                                                                      | 9.987158  |
| 3- N_Temp_Max:                                                                                                                                                                                      | 14.409462 |
| 4- N_Temp_Aver:                                                                                                                                                                                     | 28.613012 |
| 5- N_Humid_Min:                                                                                                                                                                                     | 8.024929  |
| 6- N_Humid_Max:                                                                                                                                                                                     | 5.883852  |
| 7- R500_Forest_Formation:                                                                                                                                                                           | 1.691361  |
| 8- R500_Floodable_Habitat:                                                                                                                                                                          | 2.685403  |

TABLE VII

Multivariate tests of significance, effect sizes and powers

| Effect     | Test  | Value | F         | Effect df | Error df | p     | Partial eta-squared | Non-centrality | Observed power (alpha = 0.05) |
|------------|-------|-------|-----------|-----------|----------|-------|---------------------|----------------|-------------------------------|
| Intercept  | Wilks | 0.003 | 22969.430 | 3.000     | 196.000  | 0.000 | 0.997               | 68908.280      | 1.000                         |
| SCALE      | Wilks | 0.830 | 6.370     | 6.000     | 392.000  | 0.000 | 0.089               | 38.210         | 0.999                         |
| ZONE       | Wilks | 0.463 | 19.720    | 9.000     | 477.163  | 0.000 | 0.271               | 177.460        | 1.000                         |
| SCALE*ZONE | Wilks | 0.945 | 0.630     | 18.000    | 554.857  | 0.881 | 0.020               | 11.260         | 0.467                         |

Sigma-restricted parameterization; Effective hypothesis decomposition.

TABLE VIII

Multifactorial Anova parameters and results to verify relation between Radius/Scale and Zones

|                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Based on the ANOVA, we can examine two factors — "SCALE" and "ZONE" — and how they influence the dependent variables, which are the characteristics of land cover. We'll use "Wilks' Lambda" to determine the significance, the "p" value for statistical significance, "Partial eta-squared" for effect size, and "Observed power" for the probability of detecting a true effect (statistical power).                            |  |
| For "SCALE":                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| - <i>Wilks' Lambda</i> : 0.830257, indicating a relationship, but not as strong as it could be if scale had a larger effect.                                                                                                                                                                                                                                                                                                       |  |
| - <i>p-value</i> : 0.000002, which is statistically significant.                                                                                                                                                                                                                                                                                                                                                                   |  |
| - <i>Partial eta-squared</i> : 0.088816, suggesting that scale has a modest effect on land cover characteristics.                                                                                                                                                                                                                                                                                                                  |  |
| - <i>Observed power</i> : 0.999090, indicating a high probability that the test will detect an effect if one exists.                                                                                                                                                                                                                                                                                                               |  |
| For "ZONE":                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| - <i>Wilks' Lambda</i> : 0.463220, suggesting that zone has a more significant effect on land cover characteristics than scale.                                                                                                                                                                                                                                                                                                    |  |
| - <i>p-value</i> : 0.000000, which is extremely statistically significant.                                                                                                                                                                                                                                                                                                                                                         |  |
| - <i>Partial eta-squared</i> : 0.271088, indicating that zone has a considerable effect on land cover characteristics.                                                                                                                                                                                                                                                                                                             |  |
| - <i>Observed power</i> : 1.000000, suggesting a strong probability that the test will detect an effect when one exists.                                                                                                                                                                                                                                                                                                           |  |
| When compared, the results suggest that "ZONE" is a better predictor of land cover characteristics than "SCALE." The effect size is larger for "ZONE" and Wilks' Lambda is lower, indicating that differences between zones have a more substantial impact on land cover characteristics than differences in scale. Both factors are statistically significant, but the larger effect size for "ZONE" is the decisive factor here. |  |

TABLE IX

Summary of analytical steps, predictors, model structures, and outputs

| Step                           | Purpose                                                          | Predictors tested                                                                                                  | Model type                                                             | Output / Reference (SI) |
|--------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------|
| 1. Data screening              | Identify outliers and assess data distribution                   | HBR per event/site                                                                                                 | Outlier detection (IQR), normality tests                               | SM-1 and SM-2           |
| 2. Exploratory analyses        | Explore temporal trends and simple associations                  | HBR, sampling hour, temperature, humidity                                                                          | Pearson correlations, simple linear regressions, ANOVA, Kruskal–Wallis | SM3-A and SM3-B         |
| 3. Multicollinearity testing   | Select non-redundant microclimatic predictors                    | Temp (min, max, avg), Humidity (min, max, avg)                                                                     | VIF (usdm R package)                                                   | SM3-C                   |
| 4. Scale testing of land cover | Assess explanatory power of land cover classes at multiple radii | Forest Formation, Floodable Vegetation, Human Changed, Water Bodies (100, 250, 500 m) + selected climate variables | Multiple regressions run separately per land cover × scale             | SM3-D                   |
| 5. Final hierarchical modeling | Integrate selected predictors accounting for nested sampling     | Max Temp, Min Humidity, Forest Formation, Floodable Vegetation                                                     | Linear mixed-effects model (zones as random effect)                    | SM3-B                   |
| 6. Dimensionality reduction    | Identify dominant environmental gradients                        | All selected predictors and land cover classes                                                                     | Principal Component Analysis (PCA)                                     | SM3-E                   |

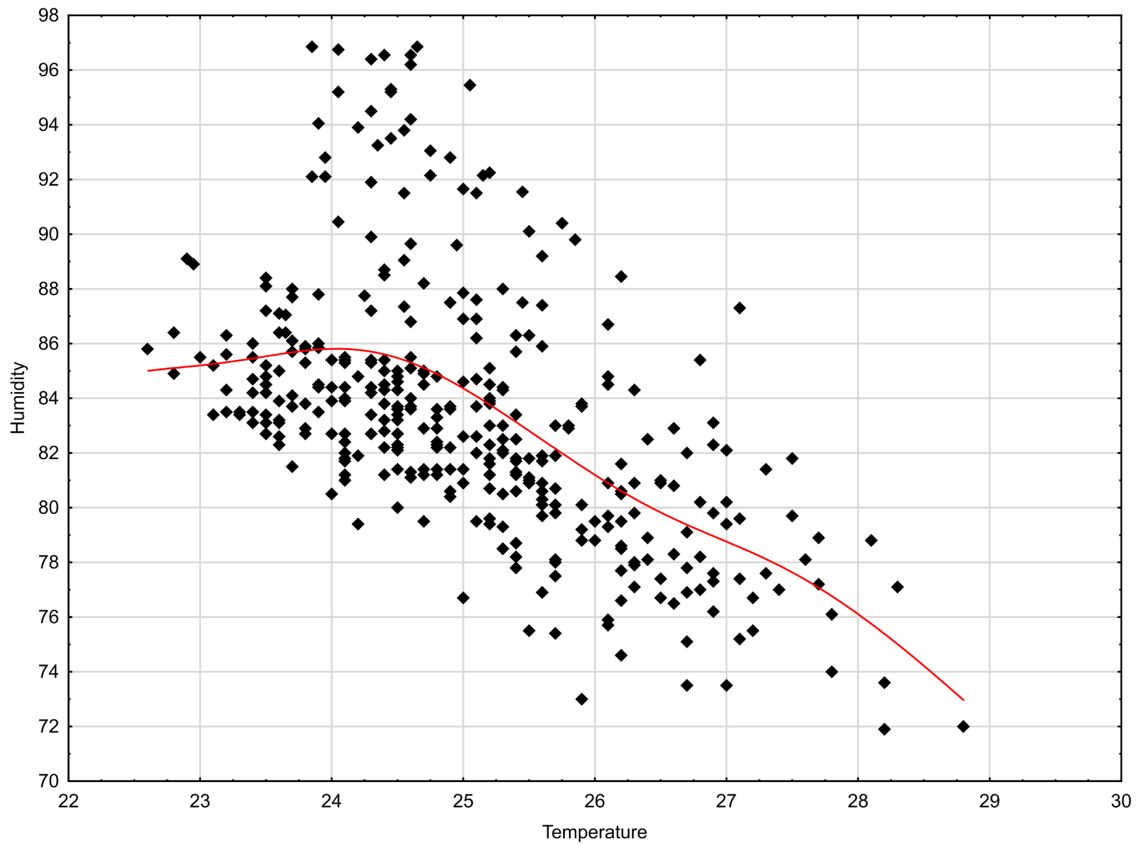


Fig. 1: biplot of relationship between humidity and temperature.

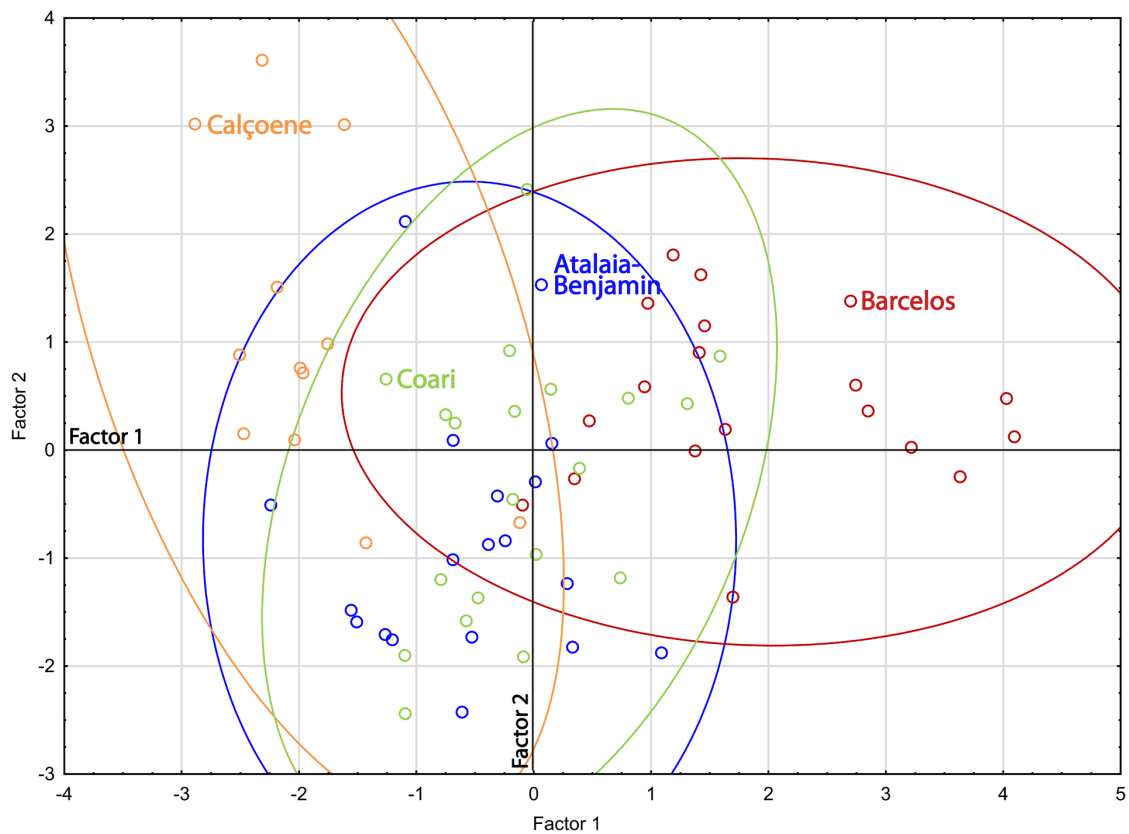


Fig. 2: scatterplot representing the projection of cases on the factor-plane for factor PC1 and PC2 of PCA for all zones.

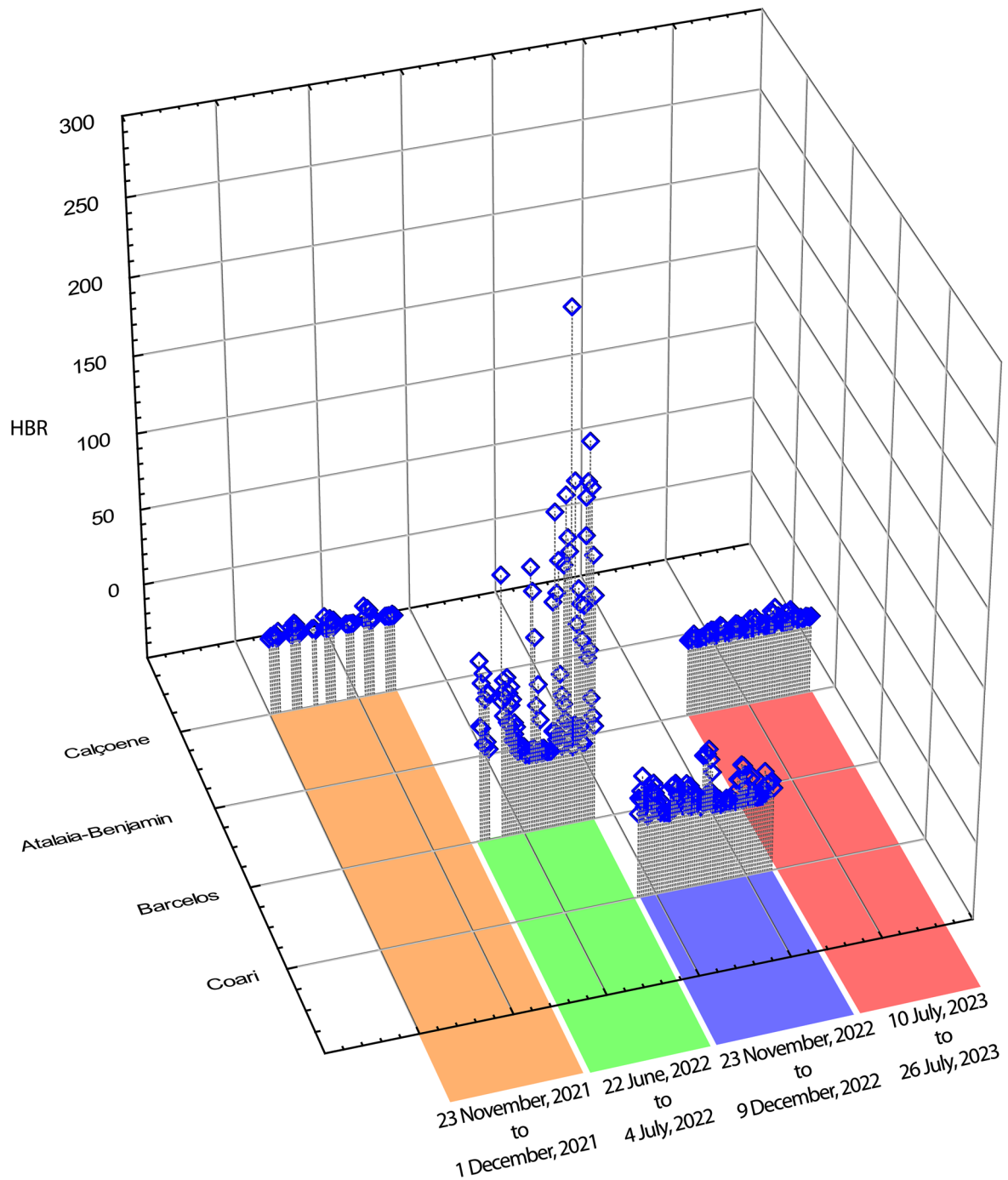


Fig. 3: the frequency of HBR by date and period in each sampling zone exhibiting outliers and HBR variable patterns among sampling zones across time . Blue diamonds represent the HBR for each sampling day.

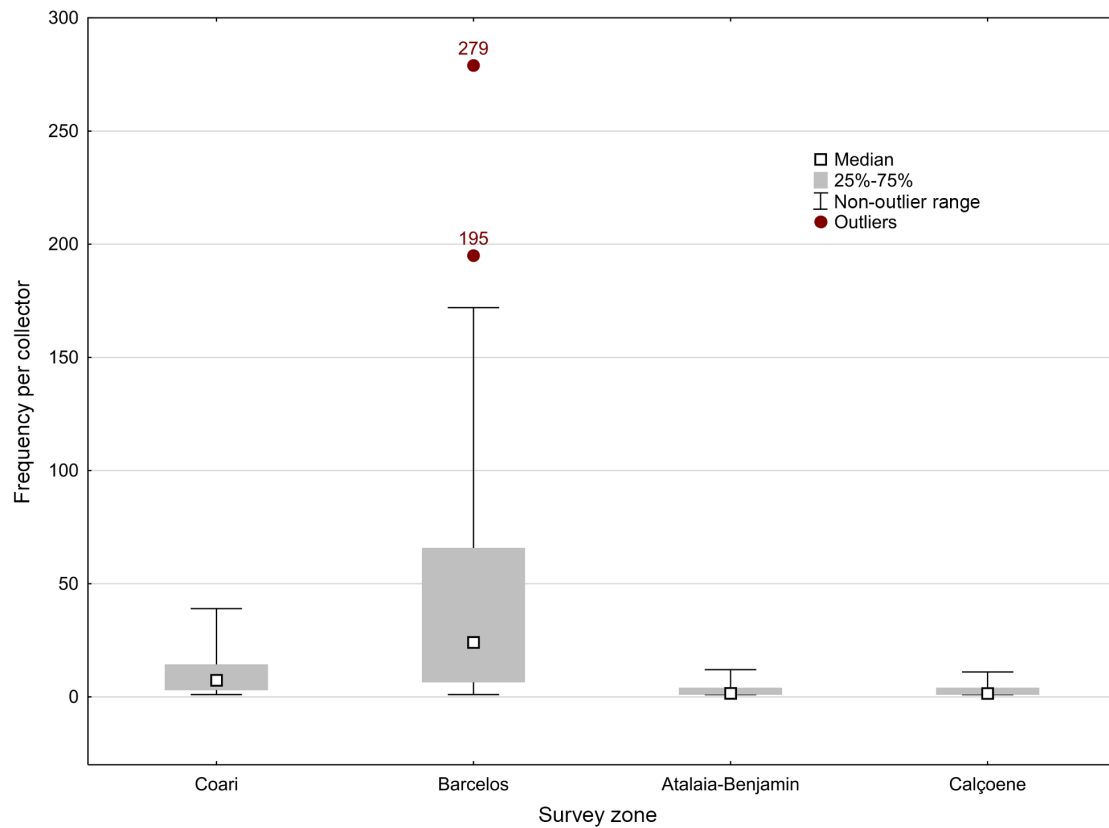


Fig. 4: boxplot showing detection of an outlier (Barcelos, HBR = 195) based on the interquartile range rule (IQR).

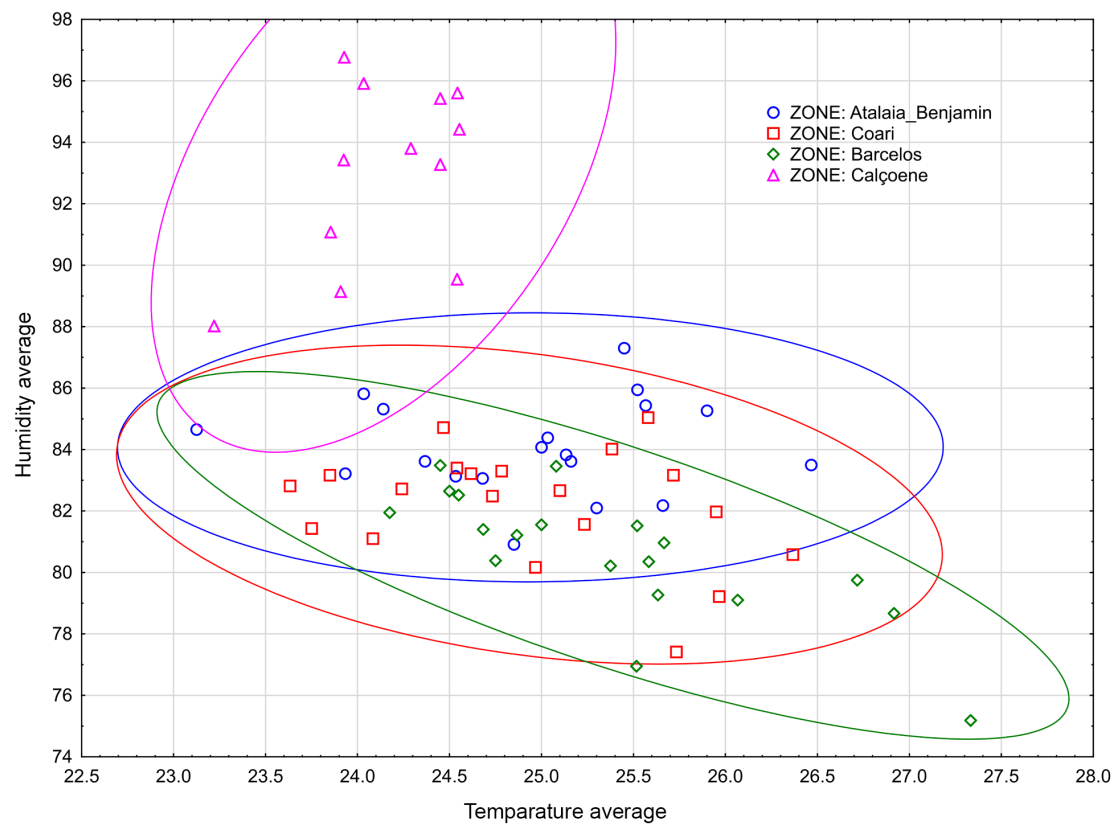


Fig. 5: bifactorial scatterplot with ellipses (coef = 0.9) representing the crossed distribution between average temperature (on the X-axis) and average humidity (on the Y-axis) for each site in the four study zones.

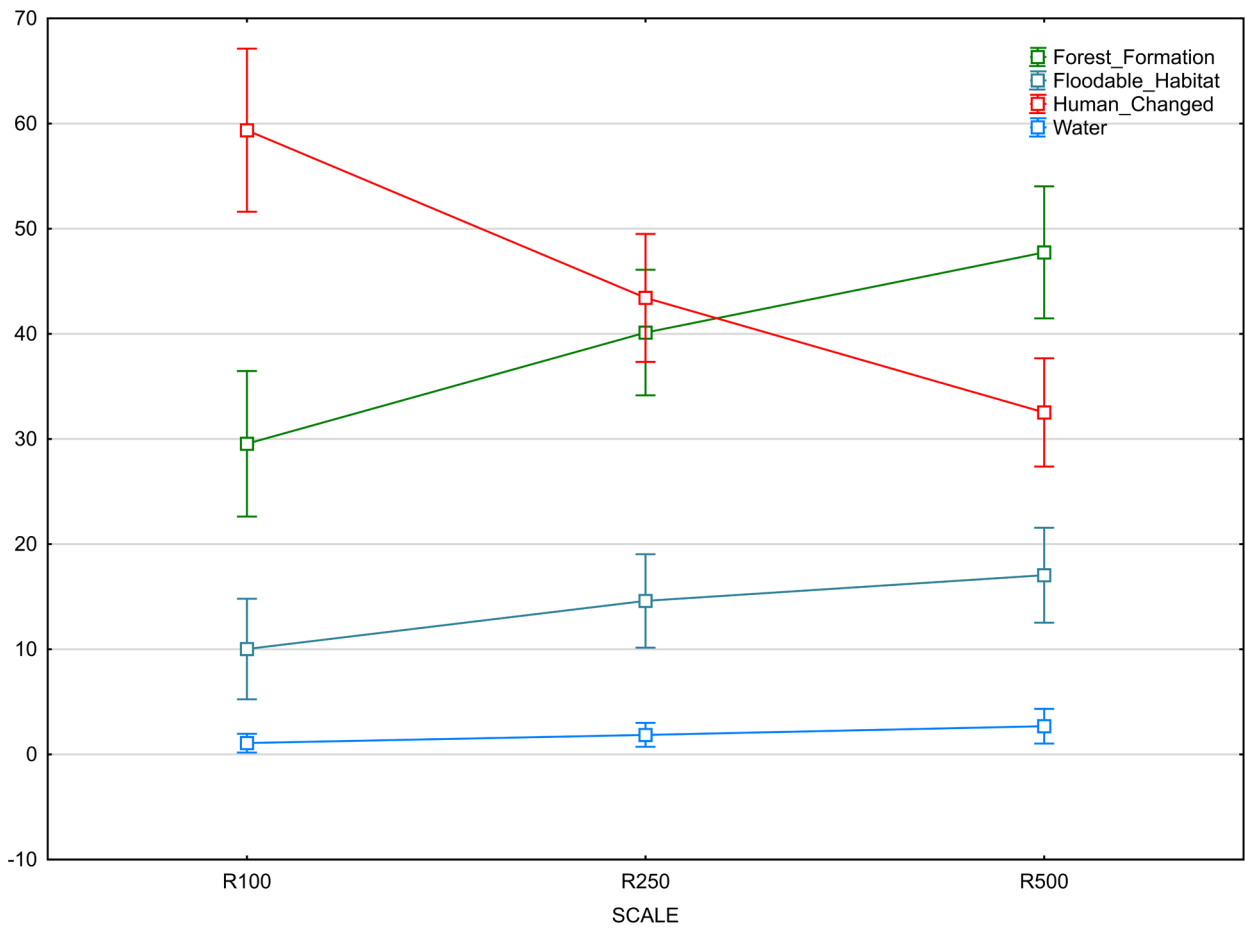


Fig. 6: effects of buffer radius variation on land cover classes. Mean values with error bars; whiskers represent the mean  $\pm$  95% confidence interval.

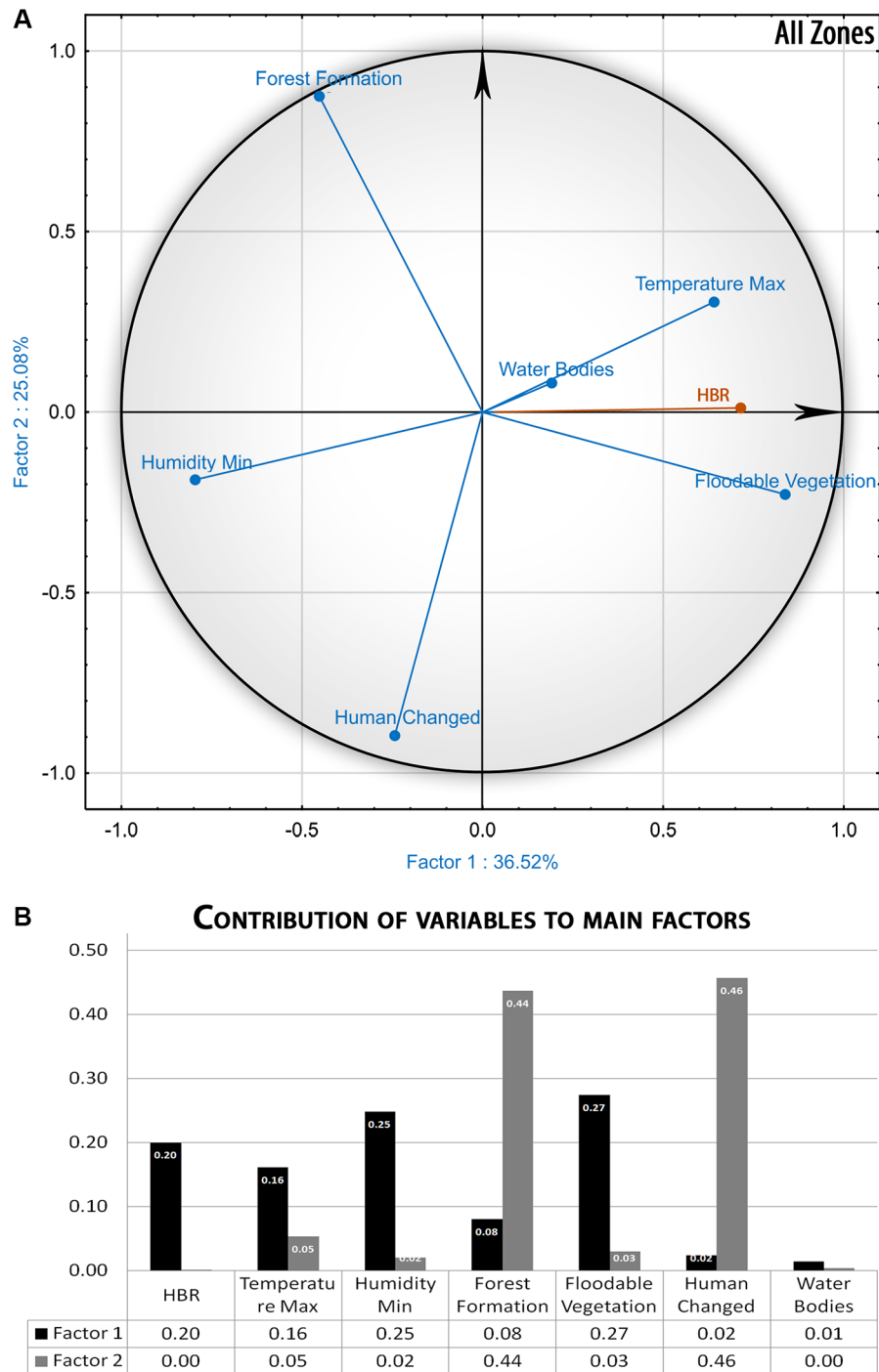


Fig. 7: principal component analysis of the most explanatory variables: percentile coverage of landscape classes (forest formation, floodable vegetation, human changed, water bodies) and microclimatic factors (minimum humidity and maximum temperature) per site for all zones combined. (A) Biplot of the variables for the two main components (together explaining 61.6% of the variability); (B) Contribution of variables to both principal components 1 and 2.



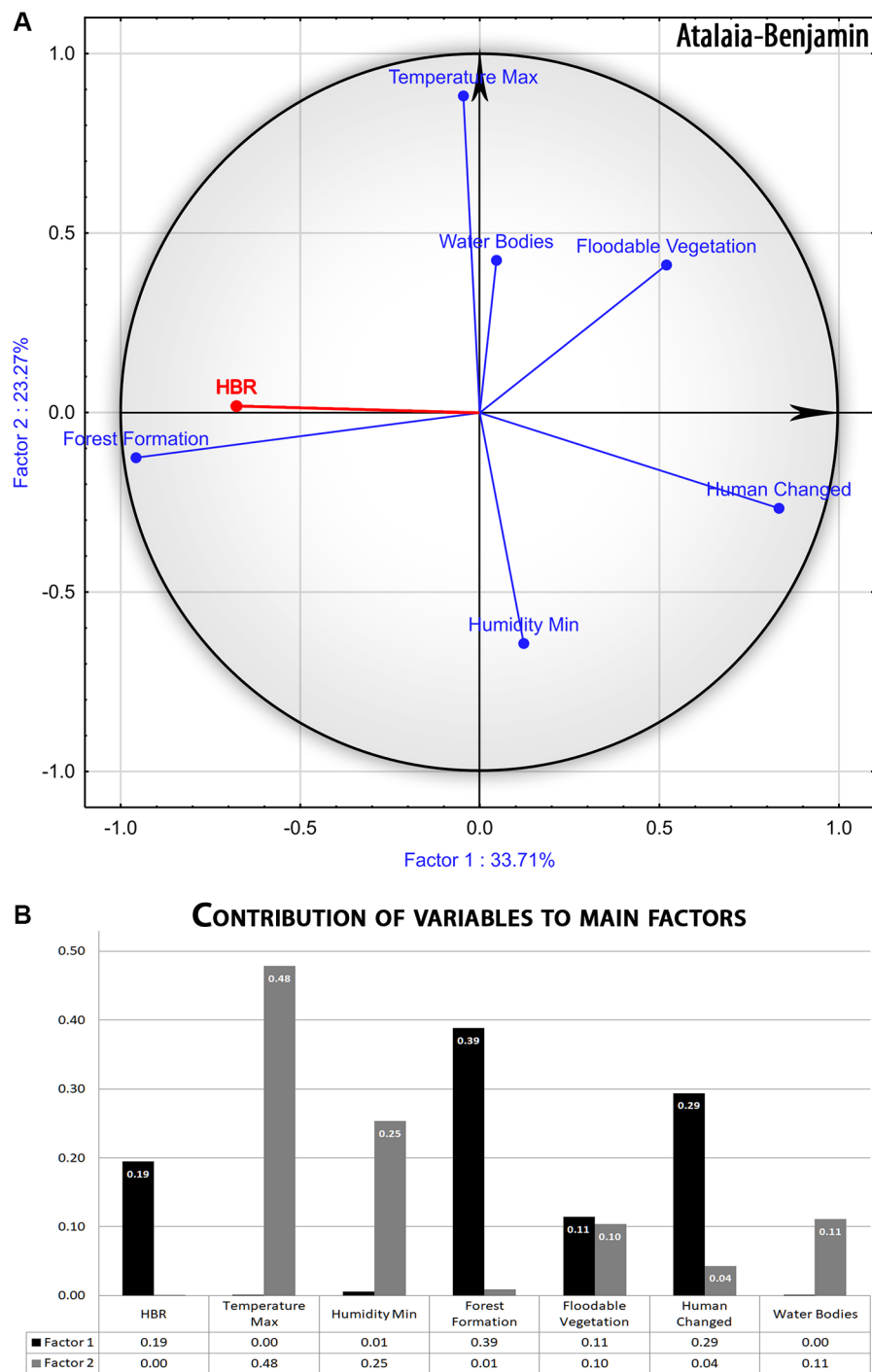


Fig. 8: principal component analysis of the most explanatory variables: percentile coverage of landscape classes (forest formation, floodable vegetation, human changed, water bodies) and microclimatic factors (minimum humidity and maximum temperature) per site for Atalaia-Benjamin zone. (A) Biplot of the variables for the two main components (together explaining 56.9% of the variability); (B) Contribution of variables to both principal components 1 and 2.

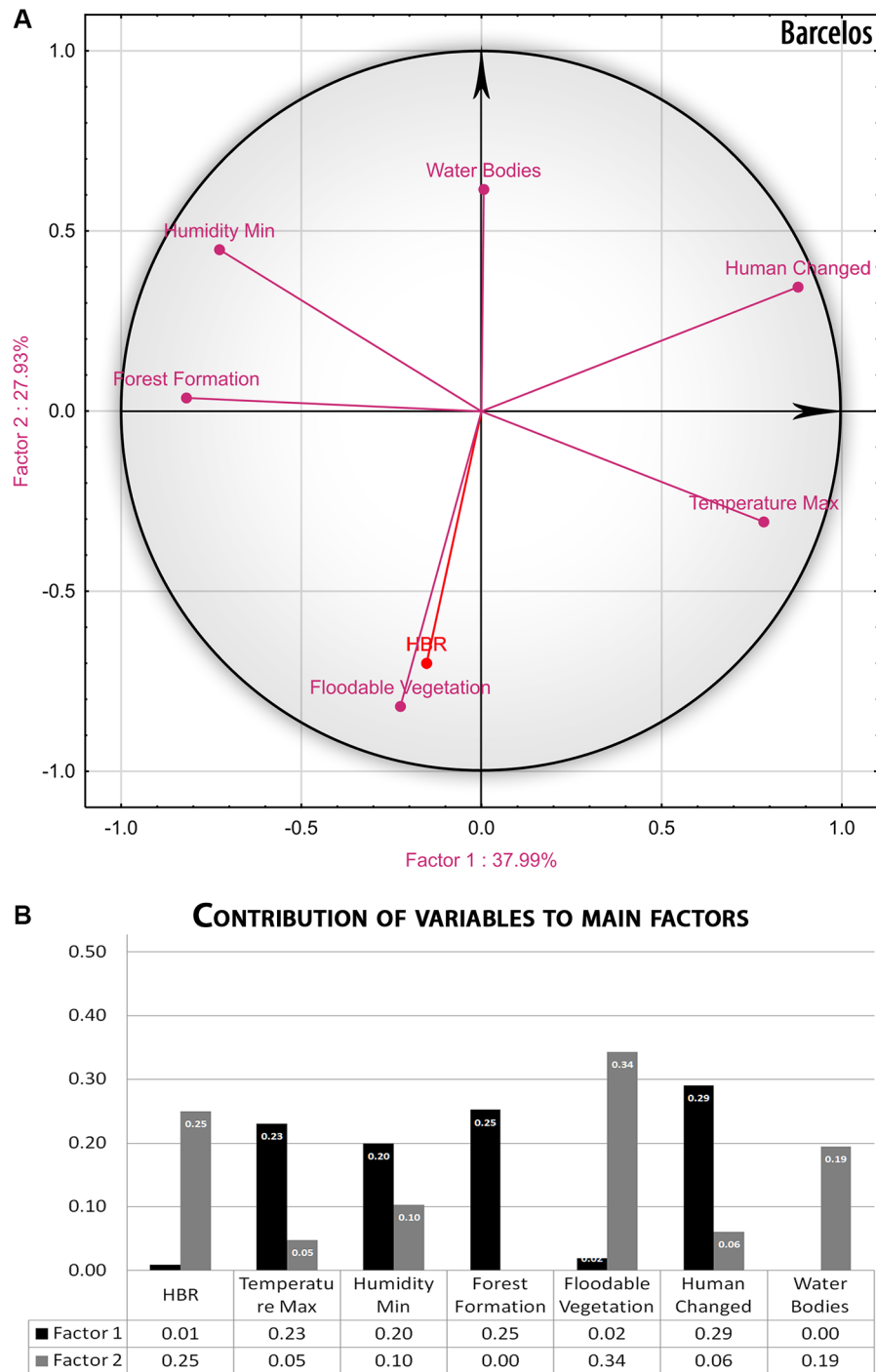


Fig. 9: principal component analysis of the most explanatory variables: percentile coverage of landscape classes (forest formation, floodable vegetation, human changed, water bodies) and microclimatic factors (minimum humidity and maximum temperature) per site for Barcelos zone. (A) Biplot of the variables for the two main components (together explaining 65.9% of the variability); (B) Contribution of variables to both principal components 1 and 2.

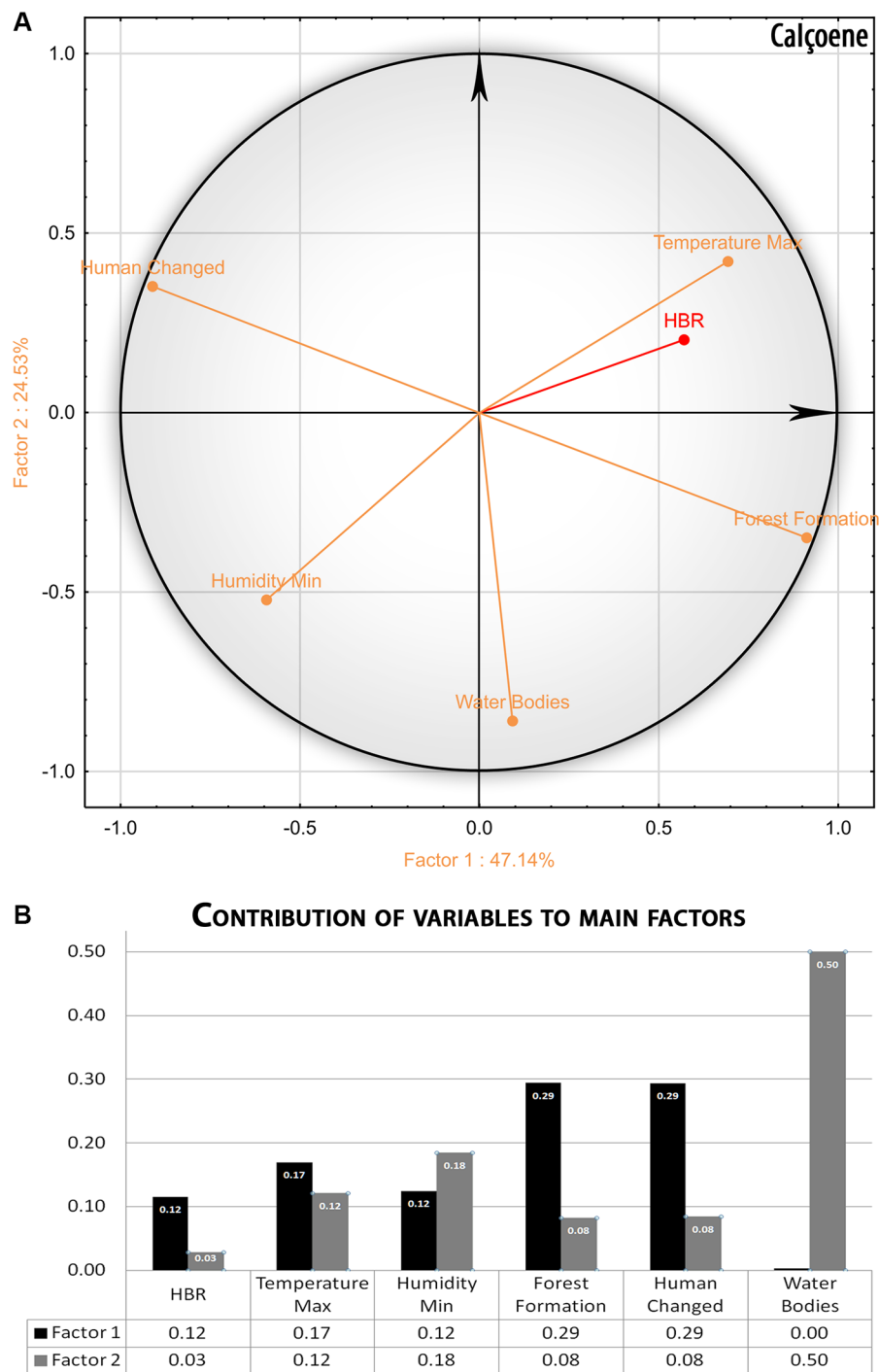


Fig. 10: principal component analysis of the most explanatory variables: percentile coverage of landscape classes (forest formation, floodable vegetation, human changed, water bodies) and microclimatic factors (minimum humidity and maximum temperature) per site for Calçoene zone. (A) Biplot of the variables for the two main components (together explaining 71.7% of the variability); (B) Contribution of variables to both principal components 1 and 2.

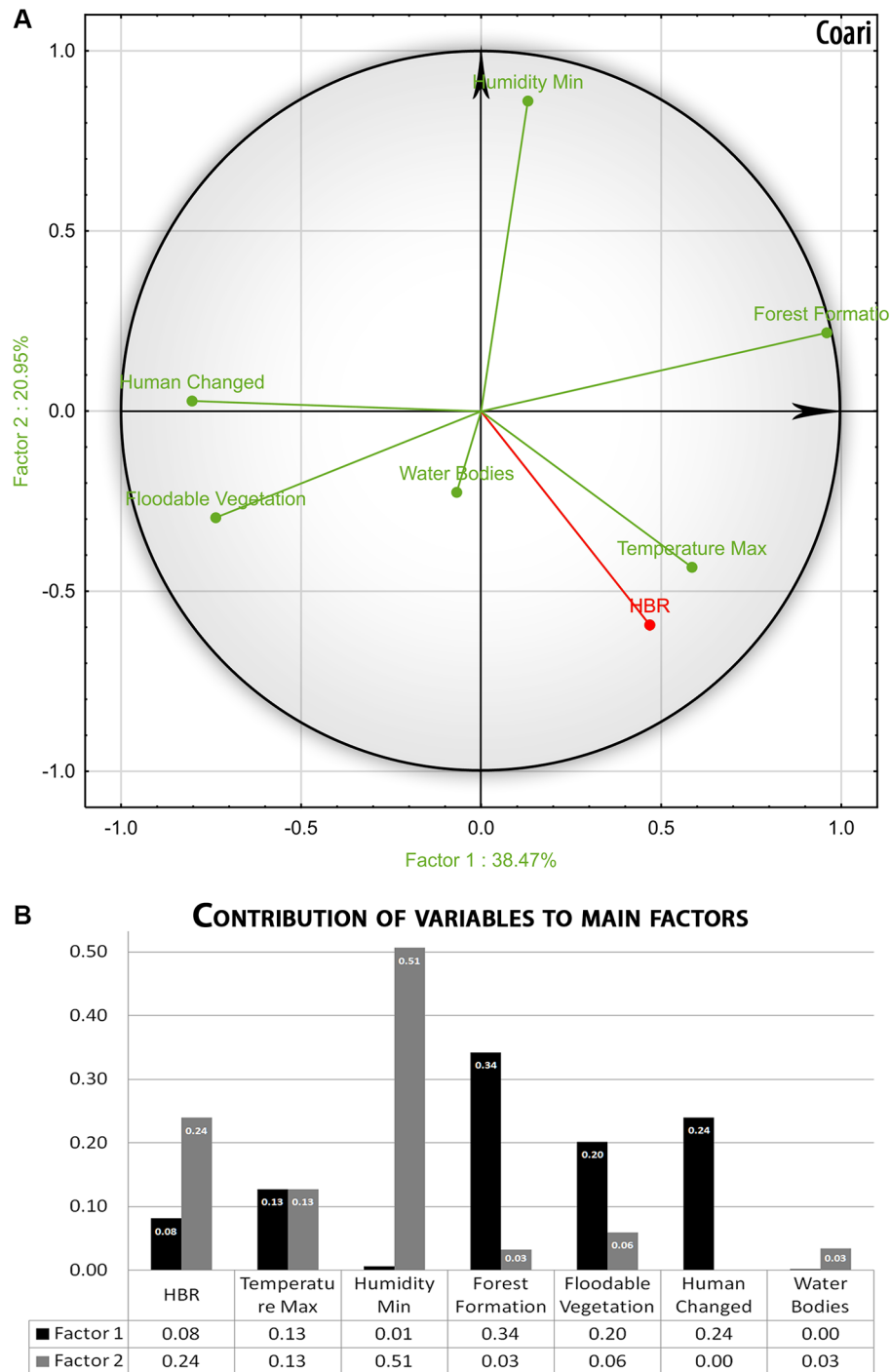


Fig. 11: principal component analysis of the most explanatory variables: percentile coverage of landscape classes (forest formation, floodable vegetation, human changed, water bodies) and microclimatic factors (minimum humidity and maximum temperature) per site for Coari zone. (A) Biplot of the variables for the two main components (together explaining 59.4% of the variability); (B) Contribution of variables to both principal components 1 and 2.