Table TAGs\_Primer. Tags and primers used in lab work and all samples relative to tagged primer. Short fragments with underline are tags we used to identify different samples from each other.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Lib1 | Lib2 | primer |  | Tagged\_primer | Forward |
| CL01 | JC01 | F1-R1 |  | Tag1 | CCTAAACTACGGGGTCAACAAATCATAAAGATATTGG |
| CL02 | JC02 | F1-R2 |  | Tag2 | GTGGTATGGGAGTGGTCAACAAATCATAAAGATATTGG |
| CL03 | JC03 | F1-R3 |  | Tag3 | TGTTGCGTTTCTGTGGTCAACAAATCATAAAGATATTGG |
| CL04 | JC04 | F1-R4 |  | Tag4 | ACAGCCACCCATCGAGGTCAACAAATCATAAAGATATTGG |
| CL05 | JC05 | F1-R5 |  | Tag5 | GTTACGTGGTTGATGAGGTCAACAAATCATAAAGATATTGG |
| CL06 | JC06 | F1-R6 |  | Tag6 | TACCGGCTTGCATGCGAGGTCAACAAATCATAAAGATATTGG |
| CL07 | JC07 | F2-R1 |  |  |  |
| CL08 | JC08 | F2-R2 |  | Tagged\_primer | Reverse |
| CL09 | JC09 | F2-R3 |  | Tag1 | CCTAAACTACGGGGNGGRTANANNGTYCANCCNGYNCC |
| CL10 | JC10 | F2-R4 |  | Tag2 | GTGGTATGGGAGTGGNGGRTANANNGTYCANCCNGYNCC |
| CL11 | JC11 | F2-R5 |  | Tag3 | TGTTGCGTTTCTGTGGNGGRTANANNGTYCANCCNGYNCC |
| CL12 | JC12 | F2-R6 |  | Tag4 | ACAGCCACCCATCGAGGNGGRTANANNGTYCANCCNGYNCC |
| CL13 | EC01-2-3 | F3-R1 |  | Tag5 | GTTACGTGGTTGATGAGGNGGRTANANNGTYCANCCNGYNCC |
| CL14 | EC04 | F3-R2 |  | Tag6 | TACCGGCTTGCATGCGAGGNGGRTANANNGTYCANCCNGYNCC |
| CL15 | EC05 | F3-R3 |  |  |  |
| CL16 | EC06 | F3-R4 |  | Adapter\_link\_tag | Forward |
| BB01 | EC07 | F3-R5 |  | Tag1 | CAAGCAGAAGACGGCATACGAGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTCCTAAACTACGG |
| BB02 | EC08 | F3-R6 |  | Tag2 | CAAGCAGAAGACGGCATACGAGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGTGGTATGGGAG |
| BB03 | EC09 | F4-R1 |  | Tag3 | CAAGCAGAAGACGGCATACGAGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTTGTTGCGTTTCT |
| BB04 | EC10 | F4-R2 |  | Tag4 | CAAGCAGAAGACGGCATACGAGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTACAGCCACCCAT |
| BB05 | NF01 | F4-R3 |  | Tag5 | CAAGCAGAAGACGGCATACGAGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGTTACGTGGTTGATGA |
| BB06 | NF02-3 | F4-R4 |  | Tag6 | CAAGCAGAAGACGGCATACGAGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTTACCGGCTTGCATGCGA |
| BB07 | NF04 | F4-R5 |  |  |  |
| BB08 | NF05 | F4-R6 |  | Adapter\_link\_tag | Reverse |
| BB09 | NF06 | F5-R1 |  | Tag1 | AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTAAACTACGG |
| BB10 | NF07 | F5-R2 |  | Tag2 | AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTGTGGTATGGGAG |
| MF01 | NF08 | F5-R3 |  | Tag3 | AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTGTTGCGTTTCT |
| MF02 | NF09 | F5-R4 |  | Tag4 | AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTACAGCCACCCAT |
| MF03 | NF10 | F5-R5 |  | Tag5 | AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTGTTACGTGGTTGATGA |
| MF04 | NF11 | F5-R6 |  | Tag6 | AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTACCGGCTTGCATGCGA |
| MF05 | NF12 | F6-R1 |  |  |  |
| MF06 | NF13 | F6-R2 |  |  |  |
| MF07 | NF14 | F6-R3 |  |  |  |
| MF08 | NF15 | F6-R4 |  |  |  |
| MF09 | NF16 | F6-R5 |  |  |  |
| MF10 | - | F6-R6 |  |  |  |

Table SPECPOOL. Observed and estimated species richness

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Habitat | Species | chao | chao.se | jack1 | jack1.se | jack2 | boot | boot.se | n |
| BB | 83 | 186.0 | 39.9 | 132.7 | 20.9 | 165.8 | 104.1 | 9.0 | 7 |
| CL | 194 | 336.2 | 37.4 | 295.7 | 32.3 | 358.8 | 238.0 | 15.7 | 15 |
| EC | 64 | 115.5 | 22.3 | 99.1 | 16.1 | 120.1 | 79.3 | 7.6 | 7 |
| JC | 85 | 209.6 | 48.5 | 139.0 | 23.1 | 177.8 | 107.5 | 10.8 | 10 |
| MF | 119 | 405.5 | 98.0 | 203.4 | 33.9 | 267.8 | 153.5 | 14.4 | 9 |
| NF | 210 | 507.3 | 72.7 | 346.6 | 48.4 | 445.5 | 266.7 | 22.2 | 13 |

Table T-TEST OBS. Bonferroni corrected p-value of all pairwise Welch t-test for observed species richness.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Welch t-test for observed species richness, adjusted p-value | | | | | |
| ad\_p | CL | EC | JC | MF | NF |
| BB | 0.0732 | 0.3275 | 0.2310 | 0.7774 | 0.3143 |
| CL |  | 0.0203\* | 0.0060\* | 0.0710 | 0.6977 |
| EC |  |  | 0.7774 | 0.4579 | 0.1073 |
| JC |  |  |  | 0.3128 | 0.0732 |
| MF |  |  |  |  | 0.2839 |

“\*” means two habitats are significantly different from each other even p-value was adjusted

Table T-TEST CHAO. Bonferroni corrected p-value of all pairwise Welch t-test for Chao2 estimated species richness

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Welch t-test for Chao2's estimator, adjusted p-value | | | |  |  |
| ad\_p | CL | EC | JC | MF | NF |
| BB | 0.0432\* | 0.1913 | 0.7236 | 0.1022 | 0.0060\* |
| CL |  | 0.0008\* | 0.0973 | 0.5307 | 0.0973 |
| EC |  |  | 0.1420 | 0.0455\* | 0.0008\* |
| JC |  |  |  | 0.1400 | 0.0105\* |
| MF |  |  |  |  | 0.5242 |

Table MVABUND. Mvabund testing for native forest and mosaic forest, and these two forests to other habitats

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | BB | CL | EC | JC | MF |
| NF | SC\_score | 54.88 | 64.25 | 54.41 | 58.09 | 55.42 |
| adjusted\_p | 0.00125 | 0.00125 | 0.00125 | 0.003 | 0.00125 |
| MF | SC\_score | 54.23 | 71.41 | 55.29 | 58.73 |  |
| adjusted\_p | 0.001 | 0.001 | 0.001 | 0.001 |  |