Table S1 – All exact GPS points from Oman used and corresponding geographical areas defined in this study.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **GPS** | **Latitude** | **Longitude** | **Altitude** | **Zone** | **Area\_20by20** |
| 1 | 16.899570 | 53.772640 | 19 | South West | 31 |
| 2 | 17.105310 | 54.454563 | 206 | South West | 29 |
| 3 | 17.235130 | 53.894730 | 694 | South West | 30 |
| 4 | 18.441610 | 55.272190 | 224 | South West | 27 |
| 5 | 19.482000 | 57.324970 | 170 | East | 26 |
| 6 | 20.502590 | 58.795370 | 16 | East | 24 |
| 7 | 20.777920 | 58.312500 | 30 | East | 23 |
| 8 | 20.782010 | 58.314360 | 30 | East | 23 |
| 9 | 20.793600 | 58.154350 | 50 | East | 23 |
| 10 | 21.549710 | 59.379890 | 70 | East | 22 |
| 11 | 21.550450 | 59.380600 | 70 | East | 22 |
| 12 | 21.551210 | 59.379520 | 74 | East | 22 |
| 13 | 21.633860 | 59.428520 | 19 | East | 22 |
| 14 | 21.676630 | 59.451460 | 36 | East | 22 |
| 15 | 21.759110 | 59.492010 | 9 | East | 22 |
| 16 | 21.805860 | 59.534640 | 9 | East | 22 |
| 17 | 21.806760 | 59.534360 | 10 | East | 22 |
| 18 | 21.943530 | 59.504010 | 40 | East | 21 |
| 19 | 22.023190 | 58.192010 | 226 | North East | 19 |
| 20 | 22.066830 | 58.162230 | 233 | North East | 19 |
| 21 | 22.106960 | 59.357030 | 200 | East | 21 |
| 22 | 22.165560 | 58.587950 | 277 | North East | 20 |
| 23 | 22.308730 | 59.221040 | 186 | North East | 17 |
| 24 | 22.431790 | 59.782490 | 22 | North East | 18 |
| 25 | 22.450690 | 59.826190 | 16 | North East | 18 |
| 26 | 22.917040 | 57.721070 | 537 | North | 7 |
| 27 | 22.945980 | 59.195410 | 20 | North East | 12 |
| 28 | 23.000360 | 57.702270 | 1588 | North | 7 |
| 29 | 23.055830 | 57.021110 | 896 | North | 5 |
| 30 | 23.069037 | 57.473240 | 664 | North | 6 |
| 31 | 23.084390 | 58.940670 | 253 | North East | 10 |
| 32 | 23.145610 | 57.033270 | 2254 | North | 5 |
| 33 | 23.152260 | 57.194000 | 762 | North | 4 |
| 34 | 23.156190 | 57.033180 | 1739 | North | 5 |
| 35 | 23.160443 | 57.423298 | 1990 | North | 6 |
| 36 | 23.191890 | 57.198610 | 1834 | North | 4 |
| 37 | 23.281400 | 57.162910 | 2105 | North | 4 |
| 38 | 23.757650 | 57.748030 | 5 | North | 3 |
| 39 | 24.620340 | 56.340020 | 240 | South West | 2 |
| 40 | 25.861550 | 56.269110 | 418 | North | 1 |
| 41 | 25.863970 | 56.267210 | 410 | North | 1 |
| 205 | 17.04136 | 54.32605 | 11 | South West | 29 |
| 208 | 17.0672 | 55.09818 | 7 | South West | 28 |
| 263 | 23.05642 | 57.46943 | 733 | North | 6 |
| 268 | 19.41654 | 54.62015 | 139 | West | 25 |
| 270 | 19.58533 | 54.88407 | 111 | West | 25 |
| 274 | 17.08981 | 54.4428 | 195 | South West | 29 |
| 276 | 17.09183 | 54.4458 | 200 | South West | 29 |
| 277 | 17.13596 | 55.14901 | 9 | South West | 28 |
| 278 | 17.12142 | 54.71404 | 1311 | South West | 29 |
| 279 | 17.24218 | 53.89095 | 678 | South West | 30 |
| 284 | 20.72641 | 58.26222 | 19 | East | 23 |
| 286 | 20.67762 | 58.52362 | 8 | East | 23 |
| 287 | 21.43997 | 59.29431 | 7 | East | 22 |
| 289 | 22.61609 | 59.09371 | 649 | North East | 15 |
| 291 | 22.33769 | 59.31128 | 202 | North East | 17 |
| 292 | 22.42828 | 59.35618 | 127 | North East | 17 |
| 293 | 22.53899 | 59.36823 | 126 | North East | 17 |
| 294 | 22.52268 | 59.41361 | 73 | North East | 17 |
| 296 | 22.75099 | 59.30877 | 36 | North East | 13 |
| 297 | 22.8448 | 59.24156 | 14 | North East | 13 |
| 299 | 22.87327 | 59.17228 | 1070 | North East | 12 |
| 301 | 22.45379 | 58.67551 | 360 | North East | 16 |
| 303 | 22.88482 | 59.13114 | 1147 | North East | 12 |
| 304 | 22.89514 | 59.13761 | 858 | North East | 12 |
| 308 | 22.7914 | 59.22873 | 125 | North East | 13 |
| 309 | 22.84148 | 59.09768 | 1547 | North East | 14 |
| 310 | 22.82554 | 59.08568 | 1687 | North East | 14 |
| 312 | 22.82042 | 59.0641 | 1755 | North East | 14 |
| 313 | 22.82374 | 59.00759 | 1369 | North East | 11 |
| 314 | 22.83326 | 58.98821 | 999 | North East | 11 |
| 315 | 22.87384 | 58.92515 | 552 | North East | 11 |
| 316 | 22.76253 | 58.85312 | 591 | North East | 11 |
| 317 | 23.10603 | 58.64444 | 1644 | North East | 9 |
| 318 | 23.13329 | 58.65199 | 1689 | North East | 9 |
| 319 | 23.13167 | 58.61889 | 1676 | North East | 9 |
| 320 | 23.07732 | 58.64769 | 1188 | North East | 9 |
| 322 | 23.14307 | 58.4244 | 552 | North East | 8 |
| 323 | 23.16483 | 58.3853 | 643 | North East | 8 |
| 324 | 22.76619 | 59.03366 | 1324 | North East | 14 |
| 325 | 22.77029 | 59.07579 | 1418 | North East | 14 |
| 326 | 22.75737 | 59.09399 | 1189 | North East | 14 |
| 327 | 22.73958 | 59.10603 | 1358 | North East | 14 |
| 328 | 22.71802 | 59.12097 | 1615 | North East | 14 |
| 329 | 22.70583 | 59.1421 | 2036 | North East | 14 |
| 330 | 22.71755 | 59.21625 | 1589 | North East | 13 |
| 332 | 23.10028 | 57.11915 | 1034 | North | 5 |
| 333 | 23.11864 | 57.09576 | 994 | North | 5 |
| 336 | 23.10397 | 57.35451 | 1017 | North | 6 |
| 337 | 23.12547 | 57.40433 | 1473 | North | 6 |
| 338 | 23.17711 | 57.41018 | 1302 | North | 6 |
| 339 | 23.10098 | 57.34959 | 950 | North | 6 |
| 340 | 23.18292 | 57.41627 | 1133 | North | 6 |
| 341 | 23.19367 | 57.39477 | 917 | North | 6 |
| 342 | 23.21804 | 57.37817 | 1123 | North | 6 |
| 343 | 23.19898 | 57.36444 | 1394 | North | 6 |
| 349 | 23.33012 | 57.31367 | 583 | North | 4 |
| 350 | 23.19809 | 57.39045 | 906 | North | 6 |
| 352 | 23.14927 | 57.46254 | 2218 | North | 6 |
| 353 | 23.13226 | 57.46171 | 2011 | North | 6 |
| 354 | 23.12441 | 57.45664 | 1725 | North | 6 |
| 358 | 23.11336 | 57.65967 | 2254 | North | 7 |

Table S2 – Prevalence estimates by host species per area of collection considering 20 by 20 km squares (see Table S1 for details).



Table S3 – Details for each sequence obtained in this study for the three apicomplexan parasites amplified. Samples with more than one haplotype represent mixed infections.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parasite** | **Hap** | **Host species** | **Code** | **Genbank** | **Latitude** | **Longitude** | **Altitude** | **GPS** | **Zone** | **Area 20by20** |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf1 | KX453576 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf14 | KX453585 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf19 | KX453565 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf24 | KX453571 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf25 | KX453573 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf27 | KX453584 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf30 | KX453575 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf31 | KX453568 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf36 | KX453570 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf37 | KX453582 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf39 | KX453567 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf6 | KX453569 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 1 | *Sclerophrys arabica* | Bf7 | KX453588 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 1, 2 | *Sclerophrys arabica* | Bf11 | KX453562 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 1, 2 | *Sclerophrys arabica* | Bf17 | KX453564 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 1, 2 | *Sclerophrys arabica* | Bf18 | KX453563 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf10 | KX453578 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf12 | KX453581 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf13 | KX453577 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf16 | KX453579 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf2 | KX453583 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf20 | KX453574 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf28 | KX453580 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf3 | KX453572 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf4 | KX453586 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf5 | KX453566 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 2 | *Sclerophrys arabica* | Bf8 | KX453587 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S6045 | KX453589 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S6050 | KX453648 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S6078 | KX453591 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S6082 | KX453593 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7168 | KX453603 | 23.05642 | 57.46943 | 733 | 263 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7182 | KX453605 | 23.05642 | 57.46943 | 733 | 263 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7189 | KX453606 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7361 | KX453608 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7429 | KX453609 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7464 | KX453610 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7474 | KX453611 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7582 | KX453615 | 23.05642 | 57.46943 | 733 | 263 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7750 | KX453622 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7782 | KX453624 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7805 | KX453625 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7835 | KX453626 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7836 | KX453627 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Asaccus platyrhynchus* | S7850 | KX453628 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Echis omanensis* | CN2586 | KX453631 | 23.15619 | 57.03318 | 1739 | 34 | North | 5 |
| Hemogregarine | 3, 6 | *Echis omanensis* | CN729 | KX453558 | 23.05583 | 57.02111 | 896 | 29 | North | 5 |
| Hemogregarine | 3 | *Hemidactylus hajarensis* | S7170 | KX453604 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 3 | *Hemidactylus hajarensis* | S7587 | KX453616 | 23.13167 | 58.61889 | 1676 | 319 | North East | 9 |
| Hemogregarine | 3 | *Hemidactylus luqueorum* | S6080 | KX453592 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Hemogregarine | 3 | *Hemidactylus luqueorum* | S7155 | KX453601 | 23.18292 | 57.41627 | 1133 | 340 | North | 6 |
| Hemogregarine | 3 | *Pristurus rupestris* | S7509 | KX453612 | 22.82554 | 59.08568 | 1687 | 310 | North East | 14 |
| Hemogregarine | 3 | *Pristurus rupestris* | S7564 | KX453614 | 22.42828 | 59.35618 | 127 | 292 | North East | 17 |
| Hemogregarine | 3 | *Pristurus rupestris* | S7590 | KX453617 | 22.42828 | 59.35618 | 127 | 292 | North East | 17 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7055 | KX453594 | 23.05642 | 57.46943 | 733 | 263 | North | 6 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7093 | KX453596 | 22.7914 | 59.22873 | 125 | 308 | North East | 13 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7123 | KX453598 | 22.42828 | 59.35618 | 127 | 292 | North East | 17 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7164 | KX453602 | 23.05642 | 57.46943 | 733 | 263 | North | 6 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7357 | KX453607 | 23.10098 | 57.34959 | 950 | 339 | North | 6 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7611 | KX453619 | 23.05642 | 57.46943 | 733 | 263 | North | 6 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7668 | KX453620 | 22.7914 | 59.22873 | 125 | 308 | North East | 13 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7676 | KX453621 | 22.7914 | 59.22873 | 125 | 308 | North East | 13 |
| Hemogregarine | 3 | *Ptyodactylus orlovi* | S7776 | KX453623 | 23.18292 | 57.41627 | 1133 | 340 | North | 6 |
| Hemogregarine | 4 | *Hemidactylus festivus* | S7605 | KX453618 | 17.24218 | 53.89095 | 678 | 279 | South West | 30 |
| Hemogregarine | 4 | *Hemidactylus lemurinus* | S7134 | KX453599 | 17.24218 | 53.89095 | 678 | 279 | South West | 30 |
| Hemogregarine | 5 | *Pristurus rupestris* | S7542 | KX453613 | 22.82554 | 59.08568 | 1687 | 310 | North East | 14 |
| Hemogregarine | 6 | *Cerastes gasperettii* | CN2698 | KX453633 | 20.7936 | 58.15435 | 50 | 9 | East | 23 |
| Hemogregarine | 6 | *Cerastes gasperettii* | CN3856 | KX453639 | 21.67663 | 59.45146 | 36 | 14 | East | 22 |
| Hemogregarine | 6 | *Cerastes gasperettii* | CN7622 | KX453644 | 18.44161 | 55.27219 | 224 | 4 | South West | 27 |
| Hemogregarine | 6, 7 | *Cerastes gasperettii* | CN3923 | KX453560 | 21.94353 | 59.50401 | 40 | 18 | East | 21 |
| Hemogregarine | 6 | *Echis carinatus* | CN730 | KX453630 | 22.94598 | 59.19541 | 20 | 27 | North East | 12 |
| Hemogregarine | 6 | *Echis omanensis* | CN3266 | KX453634 | 24.62034 | 56.34002 | 240 | 39 | South West | 2 |
| Hemogregarine | 6 | *Echis omanensis* | CN3399 | KX453635 | 23.069037 | 57.47324 | 664 | 30 | North | 6 |
| Hemogregarine | 6 | *Echis omanensis* | CN3870 | KX453640 | 22.10696 | 59.35703 | 200 | 21 | East | 21 |
| Hemogregarine | 6 | *Echis omanensis* | CN8350 | KX453645 | 25.86155 | 56.26911 | 418 | 40 | North | 1 |
| Hemogregarine | 6, 12 | *Echis omanensis* | CN365 | KX453559 | 23.15226 | 57.194 | 762 | 33 | North | 4 |
| Hemogregarine | 6 | *Lytorhynchus diadema* | CN3459 | KX453636 | 21.54971 | 59.37989 | 70 | 10 | East | 22 |
| Hemogregarine | 6 | *Lytorhynchus diadema* | CN3851 | KX453638 | 21.67663 | 59.45146 | 36 | 14 | East | 22 |
| Hemogregarine | 6, 7 | *Lytorhynchus diadema* | CN4093 | KX453561 | 22.30873 | 59.22104 | 186 | 23 | North East | 17 |
| Hemogregarine | 6 | *Psammophis schokari* | CN8365 | KX453646 | 25.86397 | 56.26721 | 410 | 41 | North | 1 |
| Hemogregarine | 6 | *Pseudocerastes persicus* | CN205 | KX453629 | 23.00036 | 57.70227 | 1588 | 28 | North | 7 |
| Hemogregarine | 6 | *Rhagerhis moilensis* | CN4375 | KX453643 | 22.91704 | 57.72107 | 537 | 26 | North | 7 |
| Hemogregarine | 6 | *Telescopus dhara* | CN3900 | KX453641 | 23.19189 | 57.19861 | 1834 | 36 | North | 4 |
| Hemogregarine | 7 | *Cerastes gasperettii* | CN3768 | KX453637 | 21.75911 | 59.49201 | 9 | 15 | East | 22 |
| Hemogregarine | 8 | *Cerastes gasperettii* | CN2672 | KX453632 | 20.78201 | 58.31436 | 30 | 8 | East | 23 |
| Hemogregarine | 8 | *Echis carinatus* | CN4086 | KX453642 | 19.482 | 57.32497 | 170 | 5 | East | 26 |
| Hemogregarine | 9 | *Hemidactylus hajarensis* | S7336 | KX453647 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Hemogregarine | 10 | *Hemidactylus hajarensis* | S6061 | KX453590 | 23.33012 | 57.31367 | 583 | 349 | North | 4 |
| Hemogregarine | 11 | *Asaccus platyrhynchus* | S7077 | KX453595 | 23.05642 | 57.46943 | 733 | 263 | North | 6 |
| Hemogregarine | 12 | *Hemidactylus alkiyumii* | S7101 | KX453597 | 17.13596 | 55.14901 | 9 | 277 | South West | 28 |
| Hemogregarine | 13 | *Hemidactylus hajarensis* | S7154 | KX453600 | 23.13167 | 58.61889 | 1676 | 319 | North East | 9 |
| Lankesterellidae | 1 | *Sclerophrys arabica* | Bf32 | KX453651 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Lankesterellidae | 1, 6 | *Sclerophrys arabica* | Bf22 | KX453650 | 23.19809 | 57.39045 | 906 | 350 | North | 6 |
| Lankesterellidae | 1, 6 | *Sclerophrys arabica* | Bf9 | KX453649 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Lankesterellidae | 2 | *Pristurus rupestris* | S7267 | KX453657 | 23.10397 | 57.35451 | 1017 | 336 | North | 6 |
| Lankesterellidae | 2, 4 | *Pristurus sp. 1* | S7160 | KX453654 | 17.12142 | 54.71404 | 1311 | 278 | South West | 29 |
| Lankesterellidae | 2 | *Ptyodactylus orlovi* | S7063 | KX453652 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Lankesterellidae | 3 | *Ptyodactylus dhofarensis* | S7086 | KX453653 | 17.0672 | 55.09818 | 7 | 208 | South West | 28 |
| Lankesterellidae | 3 | *Ptyodactylus dhofarensis* | S7167 | KX453655 | 17.0672 | 55.09818 | 7 | 208 | South West | 28 |
| Lankesterellidae | 3, 4 | *Ptyodactylus orlovi* | S7670 | KX453659 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Lankesterellidae | 4 | *Ptyodactylus orlovi* | S7198 | KX453656 | 22.61609 | 59.09371 | 649 | 289 | North East | 15 |
| Lankesterellidae | 4 | *Ptyodactylus orlovi* | S7652 | KX453660 | 22.75737 | 59.09399 | 1189 | 326 | North East | 14 |
| Lankesterellidae | 5 | *Hemidactylus hajarensis* | S7321 | KX453658 | 23.13167 | 58.61889 | 1676 | 319 | North East | 9 |
| *Sarcocystis* | 1 | *Lytorhynchus diadema* | CN3764 | KX453661 | 21.80586 | 59.53464 | 9 | 16 | East | 22 |
| *Sarcocystis* | 2 | *Pristurus rupestris* | S7251 | KX453662 | 23.17711 | 57.41018 | 1302 | 338 | North | 6 |

Table S4 – Haplotype frequency by area in 20 by 20 km squares. For visualization of this distribution, refer to Fig. 3.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area code (20 by 20 kms)** | **H1** | **H2** | **H3** | **H4** | **H5** | **H6** | **H7** | **H8** | **H9** | **H10** | **H11** | **H12** | **H13** | **L1** | **L2** | **L3** | **L4** | **L5** | **L6** | **S1** | **S2** | **Total positives per area** | **Total sampled per area** |
| 1 |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 |
| 2 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| 4 |  |  |  |  |  | 2 |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  | 4 | 4 |
| 5 |  |  | 2 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 | 8 |
| 6 | 8 | 1 | 25 |  |  | 1 |  |  |  |  | 1 |  |  | 2 | 1 |  |  |  | 1 |  | 1 | 41 | 69 |
| 7 |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 3 |
| 9 |  |  | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 3 | 14 |
| 12 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 4 |
| 13 |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 | 12 |
| 14 |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 3 | 19 |
| 15 | 8 | 13 | 1 |  |  |  |  |  | 1 |  |  |  |  | 1 | 2 |  | 2 |  | 1 |  |  | 29 | 32 |
| 17 |  |  | 3 |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 | 12 |
| 21 |  |  |  |  |  | 2 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 | 2 |
| 22 |  |  |  |  |  | 3 | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 5 | 13 |
| 23 |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 11 |
| 26 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| 27 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| 28 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 2 |  |  |  |  |  | 3 | 6 |
| 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  | 2 | 21 |
| 30 |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 15 |
| Total | 16 | 14 | 36 | 2 | 1 | 18 | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 4 | 2 | 4 | 1 | 2 | 1 | 1 | 116 | 250 |

Table S5 – Tukey Posthoc results from an ANOVA comparing intensity of infection (log copy number) between host species.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Host-species comparison** | **diff** | **lwr** | **upr** | **p-adj** |
| *Bunopus tuberculatus-Assacus platyrhynchus* | -2.937 | -5.074 | -0.800 | 0.001 |
| *Hemidactylus festivus-Assacus platyrhynchus* | -2.673 | -5.626 | 0.279 | 0.120 |
| *Hemidactylus hajarensis-Assacus platyrhynchus* | -0.551 | -1.817 | 0.714 | 0.967 |
| *Hemidactylus lemurinus-Assacus platyrhynchus* | -1.576 | -3.360 | 0.208 | 0.144 |
| *Hemidactylus luqueorum-Assacus platyrhynchus* | -0.776 | -2.560 | 1.008 | 0.967 |
| *Pristurus carteri-Assacus platyrhynchus* | -2.229 | -3.494 | -0.963 | 0.000 |
| *Pristurus rupestris-Assacus platyrhynchus* | -2.049 | -2.861 | -1.237 | 0.000 |
| *Pristurus sp. 1-Assacus platyrhynchus* | -1.732 | -2.716 | -0.748 | 0.000 |
| *Ptyodactylus orlovi-Assacus platyrhynchus* | -0.994 | -2.110 | 0.122 | 0.136 |
| *Sclerophrys arabica-Assacus platyrhynchus* | -1.749 | -2.630 | -0.868 | 0.000 |
| *Stenodactylus doriae-Assacus platyrhynchus* | -2.495 | -4.279 | -0.711 | 0.000 |
| *Stenodacylus leptocosymbotes-Assacus platyrhynchus* | -2.872 | -5.009 | -0.735 | 0.001 |
| *Trachydactylus hajarensis-Assacus platyrhynchus* | -2.711 | -4.848 | -0.574 | 0.002 |
| *Hemidactylus festivus-Bunopus tuberculatus* | 0.264 | -3.265 | 3.793 | 1.000 |
| *Hemidactylus hajarensis-Bunopus tuberculatus* | 2.386 | 0.075 | 4.696 | 0.036 |
| *Hemidactylus lemurinus-Bunopus tuberculatus* | 1.361 | -1.270 | 3.991 | 0.884 |
| *Hemidactylus luqueorum-Bunopus tuberculatus* | 2.161 | -0.469 | 4.792 | 0.232 |
| *Pristurus carteri-Bunopus tuberculatus* | 0.708 | -1.602 | 3.019 | 0.999 |
| *Pristurus rupestris-Bunopus tuberculatus* | 0.888 | -1.208 | 2.985 | 0.973 |
| *Pristurus sp. 1-Bunopus tuberculatus* | 1.205 | -0.964 | 3.374 | 0.821 |
| *Ptyodactylus orlovi-Bunopus tuberculatus* | 1.943 | -0.289 | 4.175 | 0.160 |
| *Sclerophrys arabica-Bunopus tuberculatus* | 1.188 | -0.936 | 3.312 | 0.814 |
| *Stenodactylus doriae-Bunopus tuberculatus* | 0.442 | -2.188 | 3.073 | 1.000 |
| *Stenodacylus leptocosymbotes-Bunopus tuberculatus* | 0.065 | -2.816 | 2.947 | 1.000 |
| *Trachydactylus hajarensis-Bunopus tuberculatus* | 0.226 | -2.656 | 3.107 | 1.000 |
| *Hemidactylus hajarensis-Hemidactylus festivus* | 2.122 | -0.958 | 5.202 | 0.516 |
| *Hemidactylus lemurinus-Hemidactylus festivus* | 1.097 | -2.230 | 4.424 | 0.997 |
| *Hemidactylus luqueorum-Hemidactylus festivus* | 1.897 | -1.430 | 5.225 | 0.793 |
| *Pristurus carteri-Hemidactylus festivus* | 0.445 | -2.636 | 3.525 | 1.000 |
| *Pristurus rupestris-Hemidactylus festivus* | 0.624 | -2.299 | 3.548 | 1.000 |
| *Pristurus sp. 1-Hemidactylus festivus* | 0.941 | -2.034 | 3.917 | 0.998 |
| *Ptyodactylus orlovi-Hemidactylus festivus* | 1.679 | -1.343 | 4.702 | 0.821 |
| *Sclerophrys arabica-Hemidactylus festivus* | 0.924 | -2.019 | 3.868 | 0.998 |
| *Stenodactylus doriae-Hemidactylus festivus* | 0.179 | -3.149 | 3.506 | 1.000 |
| *Stenodacylus leptocosymbotes-Hemidactylus festivus* | -0.199 | -3.728 | 3.330 | 1.000 |
| *Trachydactylus hajarensis-Hemidactylus festivus* | -0.038 | -3.567 | 3.491 | 1.000 |
| *Hemidactylus lemurinus-Hemidactylus hajarensis* | -1.025 | -3.013 | 0.963 | 0.887 |
| *Hemidactylus luqueorum-Hemidactylus hajarensis* | -0.225 | -2.213 | 1.764 | 1.000 |
| *Pristurus carteri-Hemidactylus hajarensis* | -1.677 | -3.218 | -0.137 | 0.020 |
| *Pristurus rupestris-Hemidactylus hajarensis* | -1.498 | -2.693 | -0.302 | 0.003 |
| *Pristurus sp. 1-Hemidactylus hajarensis* | -1.181 | -2.499 | 0.138 | 0.131 |
| *Ptyodactylus orlovi-Hemidactylus hajarensis* | -0.443 | -1.863 | 0.977 | 0.998 |
| *Sclerophrys arabica-Hemidactylus hajarensis* | -1.198 | -2.442 | 0.046 | 0.071 |
| *Stenodactylus doriae-Hemidactylus hajarensis* | -1.943 | -3.932 | 0.045 | 0.062 |
| *Stenodacylus leptocosymbotes-Hemidactylus hajarensis* | -2.321 | -4.631 | -0.010 | 0.048 |
| *Trachydactylus hajarensis-Hemidactylus hajarensis* | -2.160 | -4.470 | 0.150 | 0.093 |
| *Hemidactylus luqueorum-Hemidactylus lemurinus* | 0.801 | -1.552 | 3.153 | 0.996 |
| *Pristurus carteri-Hemidactylus lemurinus* | -0.652 | -2.641 | 1.336 | 0.997 |
| *Pristurus rupestris-Hemidactylus lemurinus* | -0.472 | -2.208 | 1.263 | 1.000 |
| *Pristurus sp. 1-Hemidactylus lemurinus* | -0.155 | -1.978 | 1.667 | 1.000 |
| *Ptyodactylus orlovi-Hemidactylus lemurinus* | 0.583 | -1.314 | 2.479 | 0.999 |
| *Sclerophrys arabica-Hemidactylus lemurinus* | -0.173 | -1.941 | 1.596 | 1.000 |
| *Stenodactylus doriae-Hemidactylus lemurinus* | -0.918 | -3.271 | 1.434 | 0.987 |
| *Stenodacylus leptocosymbotes-Hemidactylus lemurinus* | -1.295 | -3.926 | 1.335 | 0.917 |
| *Trachydactylus hajarensis-Hemidactylus lemurinus* | -1.135 | -3.765 | 1.496 | 0.969 |
| *Pristurus carteri-Hemidactylus luqueorum* | -1.453 | -3.441 | 0.536 | 0.416 |
| *Pristurus rupestris-Hemidactylus luqueorum* | -1.273 | -3.008 | 0.462 | 0.409 |
| *Pristurus sp. 1-Hemidactylus luqueorum* | -0.956 | -2.778 | 0.866 | 0.873 |
| *Ptyodactylus orlovi-Hemidactylus luqueorum* | -0.218 | -2.115 | 1.679 | 1.000 |
| *Sclerophrys arabica-Hemidactylus luqueorum* | -0.973 | -2.742 | 0.796 | 0.831 |
| *Stenodactylus doriae-Hemidactylus luqueorum* | -1.719 | -4.072 | 0.634 | 0.416 |
| *Stenodacylus leptocosymbotes-Hemidactylus luqueorum* | -2.096 | -4.726 | 0.534 | 0.276 |
| *Trachydactylus hajarensis-Hemidactylus luqueorum* | -1.935 | -4.566 | 0.695 | 0.404 |
| *Pristurus rupestris-Pristurus carteri* | 0.180 | -1.016 | 1.376 | 1.000 |
| *Pristurus sp. 1-Pristurus carteri* | 0.497 | -0.822 | 1.816 | 0.990 |
| *Ptyodactylus orlovi-Pristurus carteri* | 1.235 | -0.185 | 2.655 | 0.161 |
| *Sclerophrys arabica-Pristurus carteri* | 0.480 | -0.764 | 1.723 | 0.988 |
| *Stenodactylus doriae-Pristurus carteri* | -0.266 | -2.254 | 1.722 | 1.000 |
| *Stenodacylus leptocosymbotes-Pristurus carteri* | -0.643 | -2.953 | 1.667 | 1.000 |
| *Trachydactylus hajarensis-Pristurus carteri* | -0.483 | -2.793 | 1.828 | 1.000 |
| *Pristurus sp. 1-Pristurus rupestris* | 0.317 | -0.576 | 1.210 | 0.994 |
| *Ptyodactylus orlovi-Pristurus rupestris* | 1.055 | 0.018 | 2.092 | 0.042 |
| *Sclerophrys arabica-Pristurus rupestris* | 0.300 | -0.478 | 1.078 | 0.988 |
| *Stenodactylus doriae-Pristurus rupestris* | -0.446 | -2.181 | 1.290 | 1.000 |
| *Stenodacylus leptocosymbotes-Pristurus rupestris* | -0.823 | -2.920 | 1.274 | 0.986 |
| *Trachydactylus hajarensis-Pristurus rupestris* | -0.662 | -2.759 | 1.434 | 0.998 |
| *Ptyodactylus orlovi-Pristurus sp. 1* | 0.738 | -0.438 | 1.914 | 0.666 |
| *Sclerophrys arabica-Pristurus sp. 1* | -0.017 | -0.973 | 0.939 | 1.000 |
| *Stenodactylus doriae-Pristurus sp. 1* | -0.763 | -2.585 | 1.059 | 0.976 |
| *Stenodacylus leptocosymbotes-Pristurus sp. 1* | -1.140 | -3.309 | 1.029 | 0.872 |
| *Trachydactylus hajarensis-Pristurus sp. 1* | -0.979 | -3.148 | 1.190 | 0.956 |
| *Sclerophrys arabica-Ptyodactylus orlovi* | -0.755 | -1.847 | 0.336 | 0.508 |
| *Stenodactylus doriae-Ptyodactylus orlovi* | -1.501 | -3.398 | 0.396 | 0.287 |
| *Stenodacylus leptocosymbotes-Ptyodactylus orlovi* | -1.878 | -4.110 | 0.354 | 0.201 |
| *Trachydactylus hajarensis-Ptyodactylus orlovi* | -1.717 | -3.949 | 0.515 | 0.330 |
| *Stenodactylus doriae-Sclerophrys arabica* | -0.746 | -2.514 | 1.023 | 0.974 |
| *Stenodacylus leptocosymbotes-Sclerophrys arabica* | -1.123 | -3.247 | 1.001 | 0.867 |
| *Trachydactylus hajarensis-Sclerophrys arabica* | -0.962 | -3.086 | 1.162 | 0.955 |
| *Stenodacylus leptocosymbotes-Stenodactylus doriae* | -0.377 | -3.007 | 2.253 | 1.000 |
| *Trachydactylus hajarensis-Stenodactylus doriae* | -0.216 | -2.847 | 2.414 | 1.000 |
| *Trachydactylus hajarensis-Stenodacylus leptocosymbotes* | 0.161 | -2.721 | 3.042 | 1.000 |