

Figs and tables

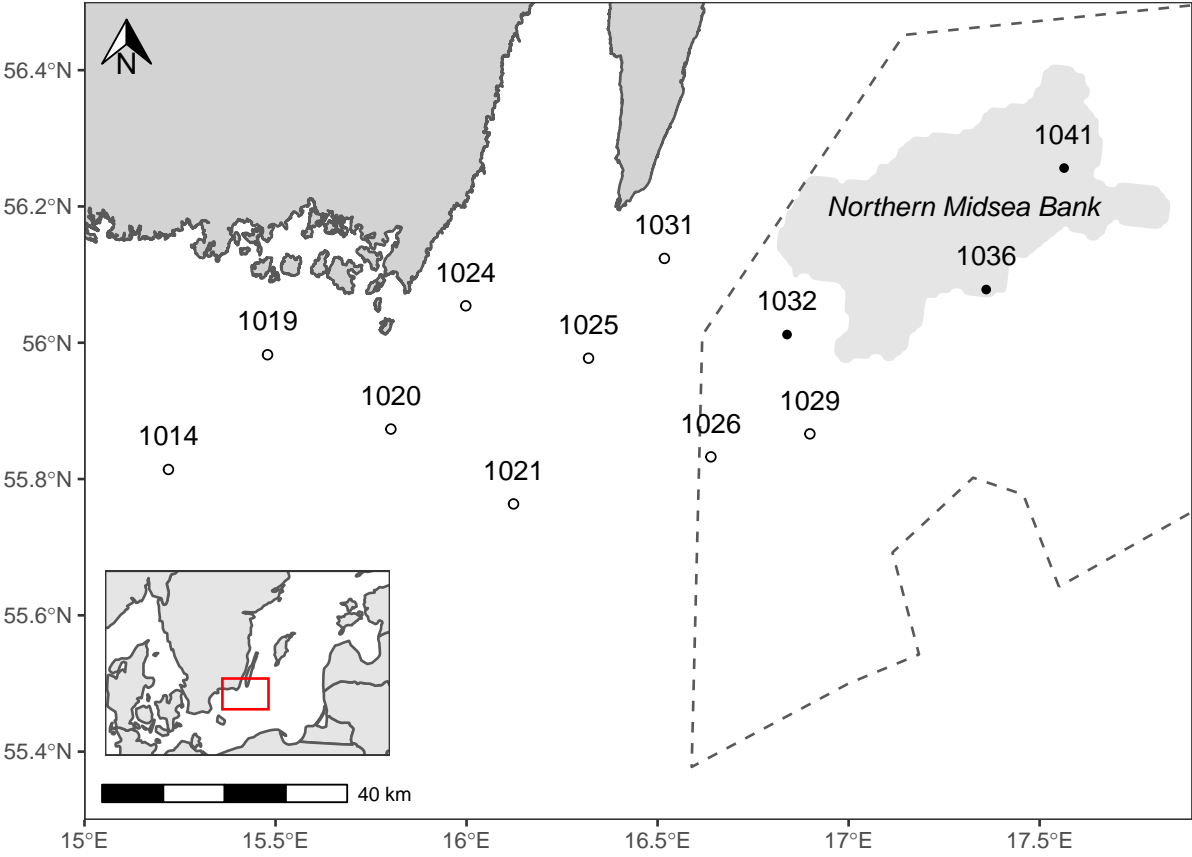


Figure 1: Basic map

SI

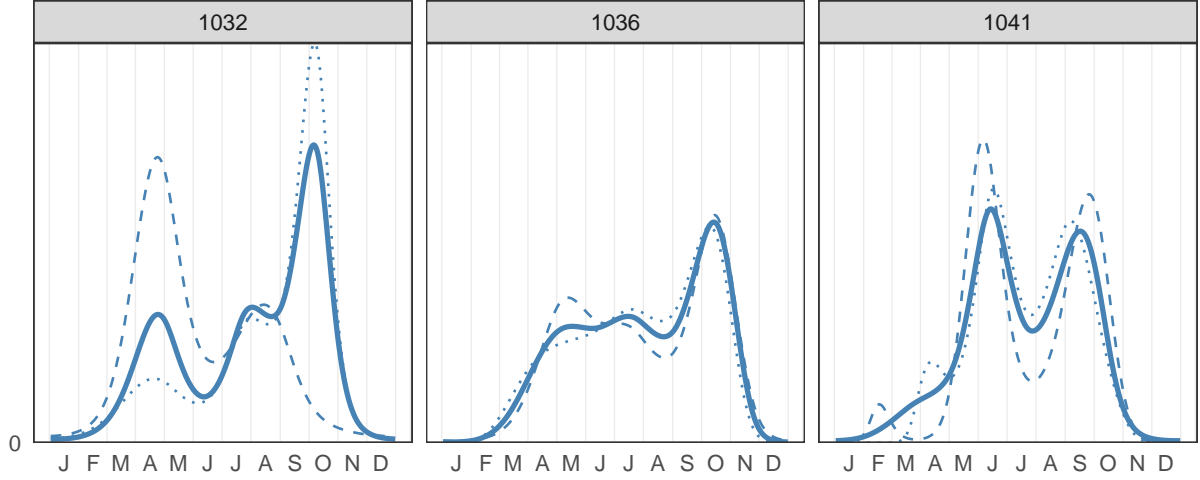


Figure 2: Seasonal components rescaled to unit integral (solid: common, dashed: SAMBAH, dotted: SNMP)

Table 1: Data summary

| Station | Full data | | | | | | | May - October | | | | | | |
|--------------|--------------|------|--------|------|----------------|-------|----------------|---------------|------|--------|------|----------------|-------|----------------|
| | Days reorded | | DPD | | Daily mean DPH | | Change DPH (%) | Days reorded | | DPD | | Daily mean DPH | | Change DPH (%) |
| | SAMBAH | SNMP | SAMBAH | SNMP | SAMBAH | SNMP | | SAMBAH | SNMP | SAMBAH | SNMP | SAMBAH | SNMP | |
| 1014 | 732 | 943 | 11 | 28 | 0.015 | 0.036 | 140 | 415 | 466 | 4 | 21 | 0.010 | 0.056 | 479 |
| 1019 | 486 | 708 | 10 | 33 | 0.023 | 0.066 | 193 | 336 | 366 | 0 | 24 | 0.000 | 0.085 | NA |
| 1020 | 497 | 942 | 9 | 17 | 0.020 | 0.020 | 0 | 284 | 504 | 2 | 6 | 0.007 | 0.012 | 69 |
| 1021 | 232 | 172 | 5 | 1 | 0.030 | 0.006 | -81 | 147 | 154 | 4 | 1 | 0.041 | 0.006 | -84 |
| 1024 | 567 | 296 | 2 | 1 | 0.004 | 0.003 | -4 | 266 | 254 | 0 | 0 | 0.000 | 0.000 | NA |
| 1025 | 634 | 686 | 7 | 8 | 0.013 | 0.015 | 16 | 356 | 435 | 2 | 5 | 0.008 | 0.014 | 64 |
| 1026 | 293 | 666 | 3 | 18 | 0.010 | 0.039 | 281 | 234 | 465 | 3 | 14 | 0.013 | 0.045 | 252 |
| 1029 | 272 | 345 | 7 | 14 | 0.033 | 0.061 | 84 | 272 | 183 | 7 | 10 | 0.033 | 0.087 | 164 |
| 1031 | 682 | 1015 | 4 | 19 | 0.006 | 0.020 | 236 | 377 | 527 | 0 | 7 | 0.000 | 0.013 | NA |
| 1032 | 733 | 858 | 21 | 50 | 0.030 | 0.070 | 133 | 420 | 493 | 14 | 39 | 0.036 | 0.097 | 173 |
| 1036 | 629 | 768 | 304 | 404 | 1.332 | 1.402 | 5 | 359 | 464 | 236 | 337 | 1.855 | 1.950 | 5 |
| 1041 | 665 | 718 | 61 | 144 | 0.123 | 0.294 | 138 | 353 | 438 | 56 | 132 | 0.212 | 0.438 | 106 |
| All stations | 6422 | 8117 | 444 | 737 | 0.157 | 0.188 | 20 | 3819 | 4749 | 328 | 596 | 0.205 | 0.265 | 29 |

Table 2: Trends DPH

| Station | Yearly trend % | Power to detect trend based on 10 years data | | Years required for 80% power | |
|----------------|-----------------|---|-------------|---------------------------------|----|
| | | -5% | 5% | -5% | 5% |
| 1032 | 15.9 (0.29, 34) | 0.36 (0.11) | 0.34 (0.11) | 16 | 16 |
| 1036 | 0.6 (-7.3, 9.2) | 0.73 (0.19) | 0.69 (0.18) | 11 | 11 |
| 1041 | 12.6 (-4.2, 32) | 0.31 (0.11) | 0.29 (0.1) | 17 | 17 |
| 1032+1041+1036 | 2.4 (-4.4, 9.6) | 0.86 (0.24) | 0.82 (0.22) | 10 | 10 |

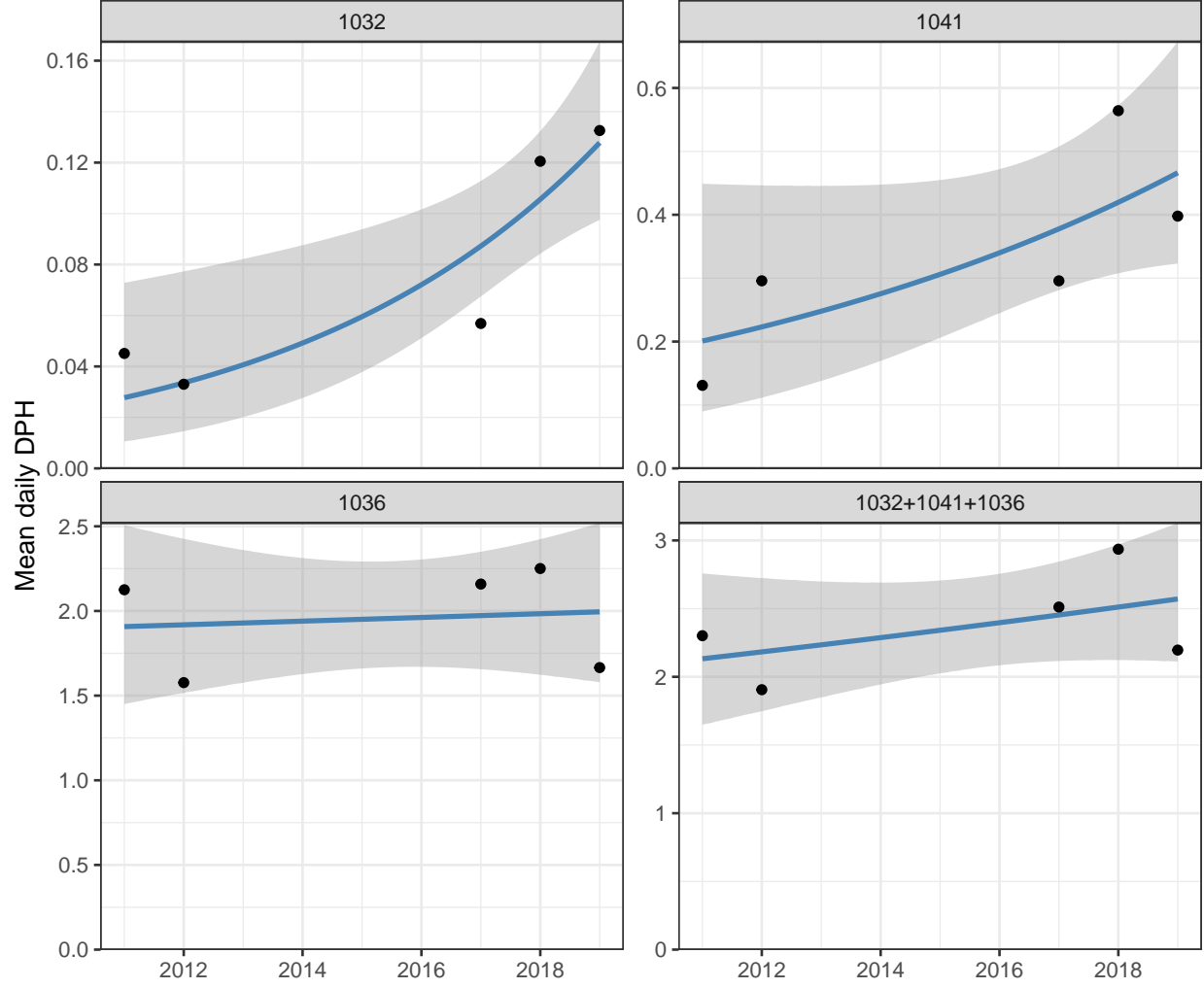


Figure 3: Yearly indices with fitted trends.

Table 3: Trends for various metrics

| Station | Yearly change (%) with 95% confidence intervals | | | |
|----------------|---|-----------------|----------------|-----------------|
| | DPH | DPS | Clicks | Encounters |
| 1032 | 15.9 (0.29, 34) | 24 (10, 39) | 26.6 (8.4, 48) | 16.4 (1.4, 34) |
| 1036 | 0.6 (-7.3, 9.2) | -0.9 (-14, 14) | -0.4 (-17, 19) | 0.6 (-7.3, 9.3) |
| 1041 | 12.6 (-4.2, 32) | 12.2 (-7.2, 36) | 10.1 (-14, 40) | 12.8 (-4.7, 34) |
| 1032+1041+1036 | 2.4 (-4.4, 9.6) | 0.6 (-11, 14) | 0.9 (-14, 19) | 2.4 (-4.3, 9.6) |

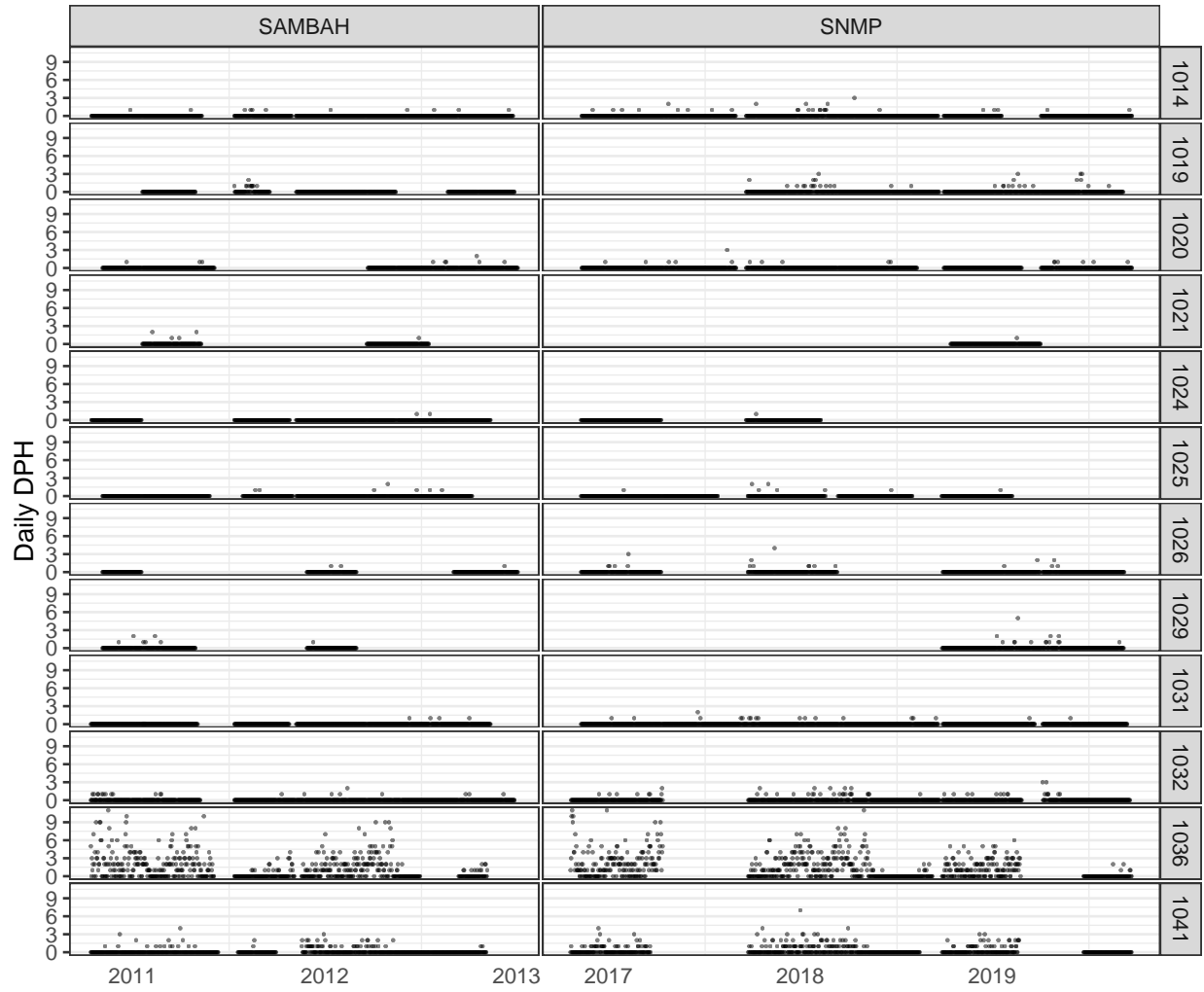


Figure 4: Full data

Table 4: Trends DPS

| Station | Yearly trend % | Power to detect trend based on 10 years data | | Years required for 80% power | |
|----------------|-----------------|---|-------------|---------------------------------|----|
| | | -5% | 5% | -5% | 5% |
| 1032 | 24 (10, 39) | 0.49 (0.14) | 0.46 (0.13) | 14 | 14 |
| 1036 | -0.9 (-14, 14) | 0.37 (0.12) | 0.34 (0.11) | 16 | 16 |
| 1041 | 12.2 (-7.2, 36) | 0.25 (0.1) | 0.24 (0.09) | 19 | 19 |
| 1032+1041+1036 | 0.6 (-11, 14) | 0.45 (0.13) | 0.42 (0.13) | 14 | 15 |

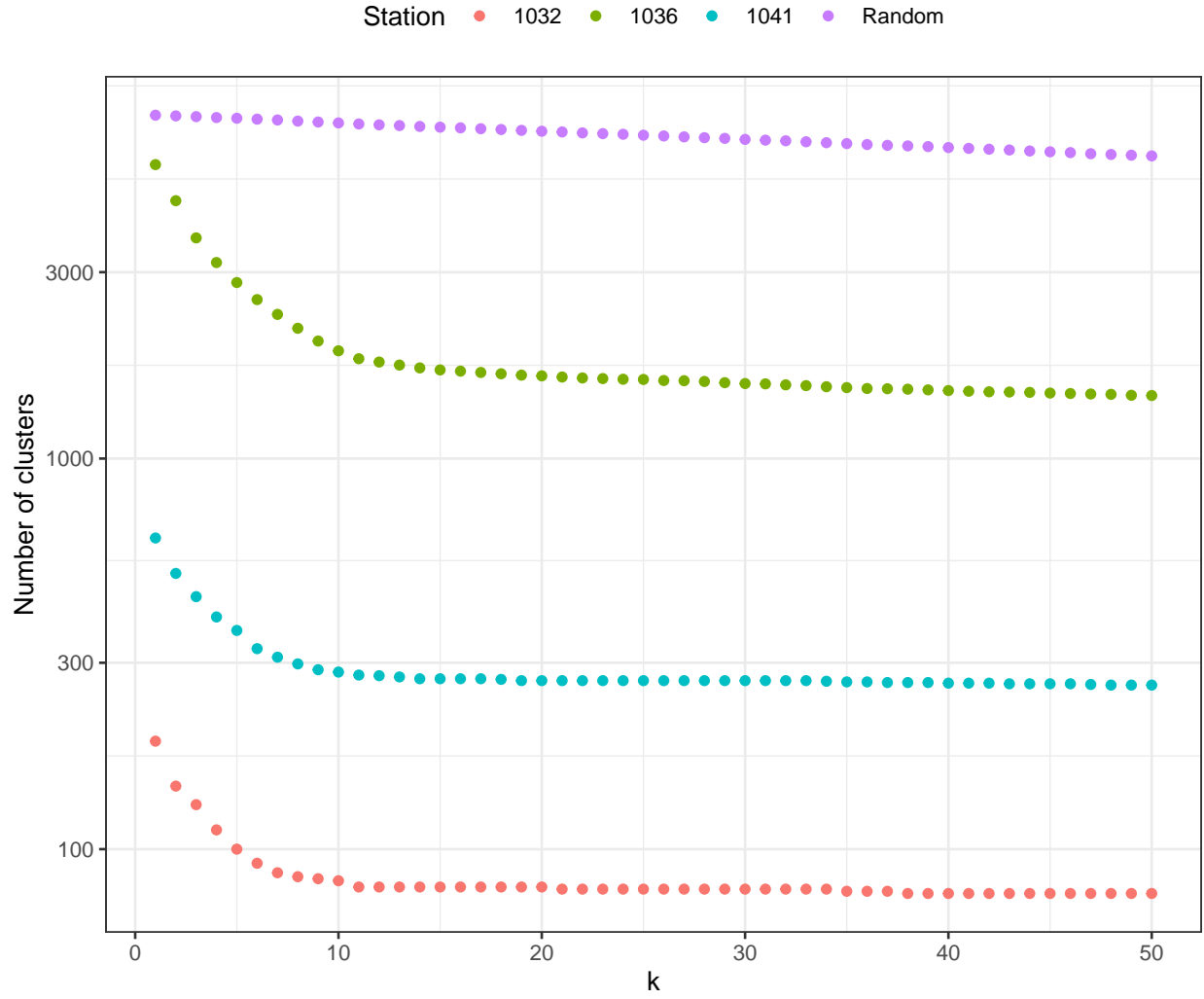


Figure 5: Choosing cut-off for clustering

Table 5: Trends clicks

| Station | Yearly trend % | Power to detect trend based on 10 years data | | Years required for 80% power | |
|----------------|----------------|---|-------------|---------------------------------|----|
| | | -5% | 5% | -5% | 5% |
| 1032 | 26.6 (8.4, 48) | 0.33 (0.11) | 0.31 (0.11) | 16 | 17 |
| 1036 | -0.4 (-17, 19) | 0.28 (0.1) | 0.26 (0.1) | 18 | 18 |
| 1041 | 10.1 (-14, 40) | 0.19 (0.08) | 0.18 (0.08) | 22 | 22 |
| 1032+1041+1036 | 0.9 (-14, 19) | 0.3 (0.1) | 0.28 (0.1) | 17 | 17 |

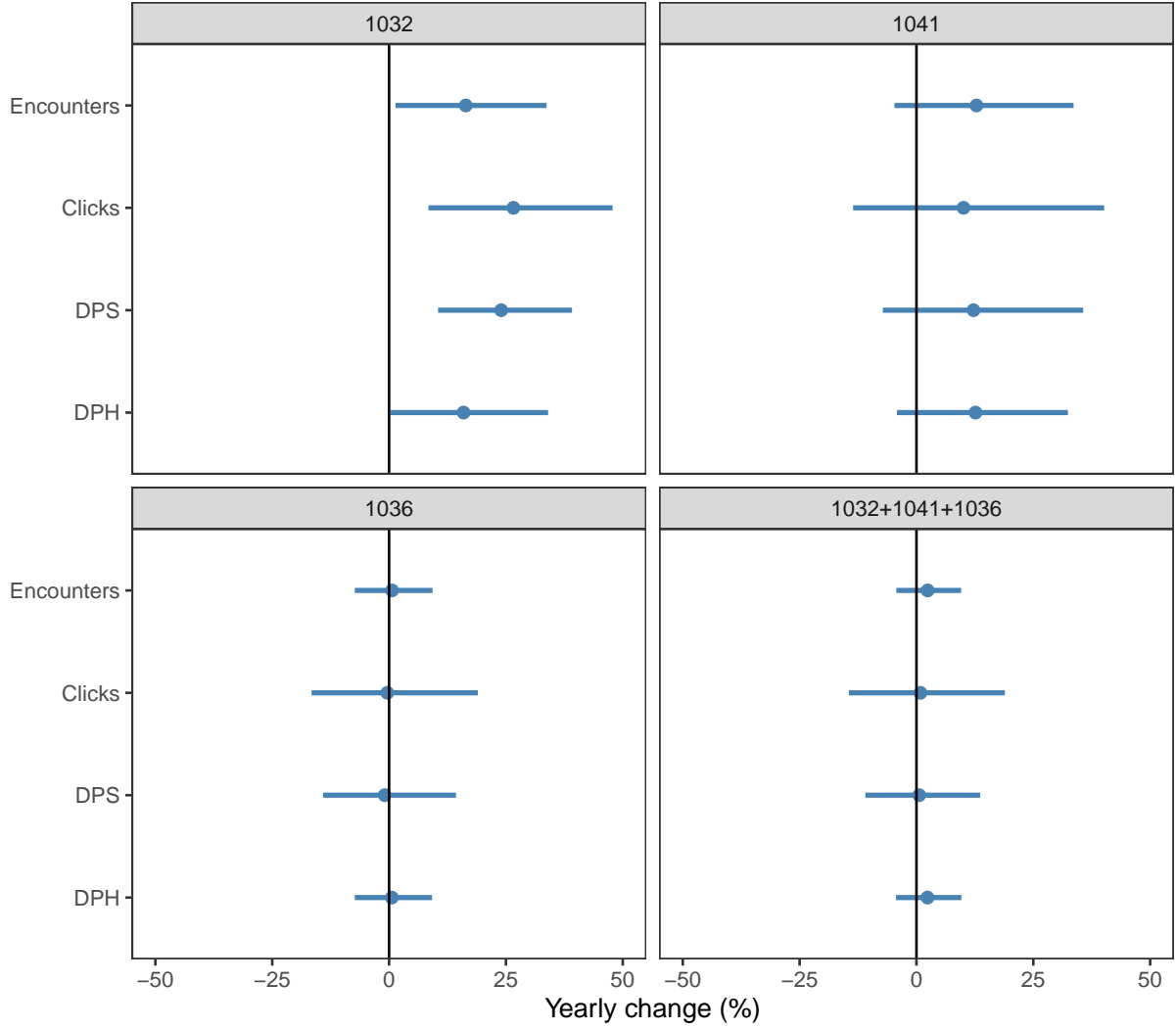


Figure 6: Trends for all metrics with confidence interval

Table 6: Trends encounters

| Station | Yearly trend % | Power to detect trend based on 10 years data | | Years required for 80% power | |
|----------------|-----------------|---|-------------|---------------------------------|----|
| | | -5% | 5% | -5% | 5% |
| 1032 | 16.4 (1.4, 34) | 0.38 (0.12) | 0.36 (0.11) | 15 | 16 |
| 1036 | 0.6 (-7.3, 9.3) | 0.73 (0.19) | 0.69 (0.18) | 11 | 11 |
| 1041 | 12.8 (-4.7, 34) | 0.29 (0.1) | 0.28 (0.1) | 17 | 18 |
| 1032+1041+1036 | 2.4 (-4.3, 9.6) | 0.86 (0.24) | 0.83 (0.23) | 10 | 10 |

Table 7: Trends click trains

| Station | Yearly trend % | Power to detect trend based on 10 years data | | Years required for 80% power | |
|----------------|-----------------|---|-------------|---------------------------------|----|
| | | -5% | 5% | -5% | 5% |
| 1032 | 21.9 (0.97, 47) | 0.26 (0.1) | 0.24 (0.09) | 18 | 19 |
| 1036 | 1.7 (-9.1, 14) | 0.5 (0.14) | 0.47 (0.13) | 13 | 14 |
| 1041 | 12.7 (-8, 38) | 0.23 (0.09) | 0.22 (0.09) | 19 | 20 |
| 1032+1041+1036 | 3.1 (-7.2, 14) | 0.55 (0.15) | 0.52 (0.14) | 13 | 13 |

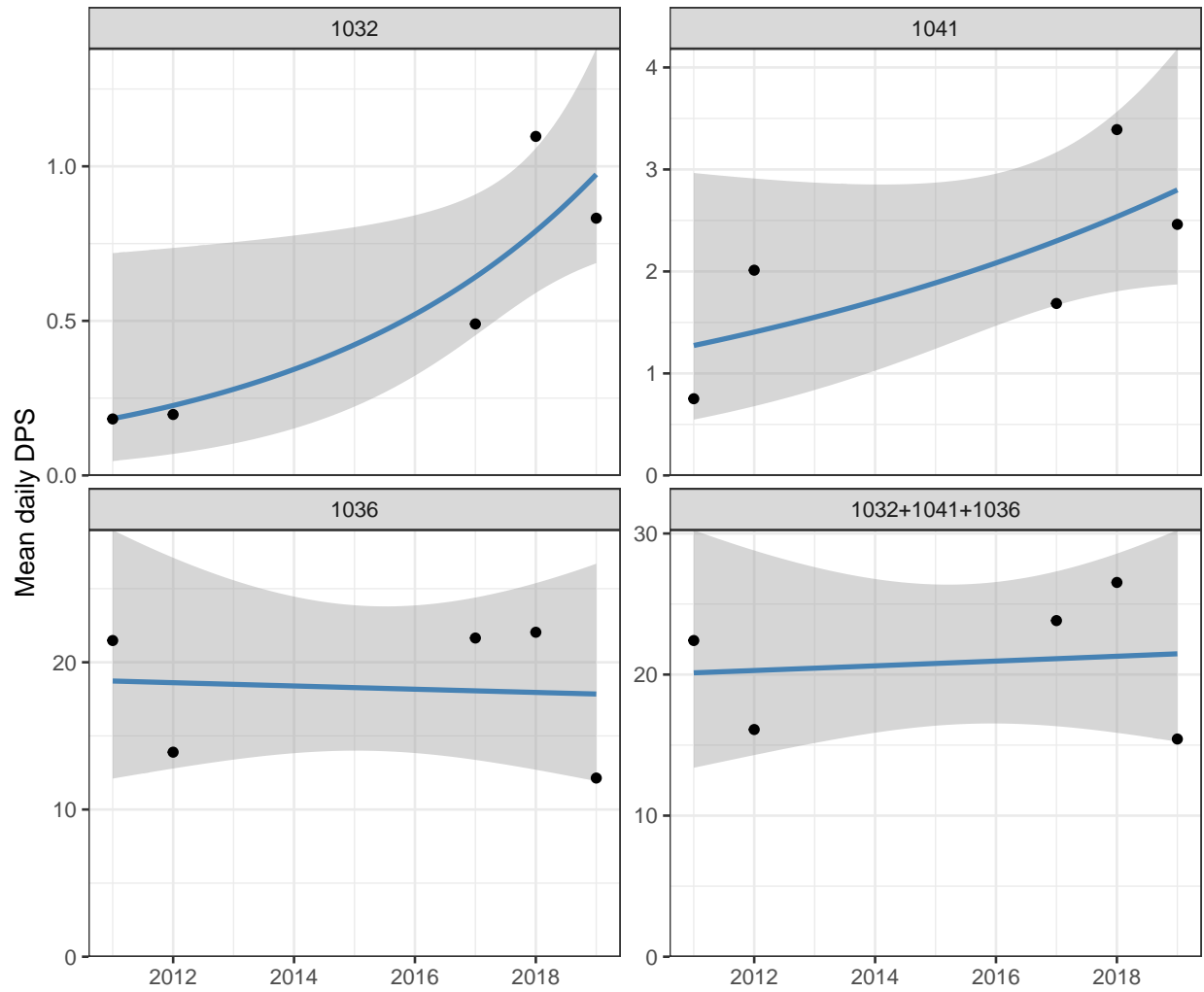


Figure 7: Yearly indices with fitted trends.

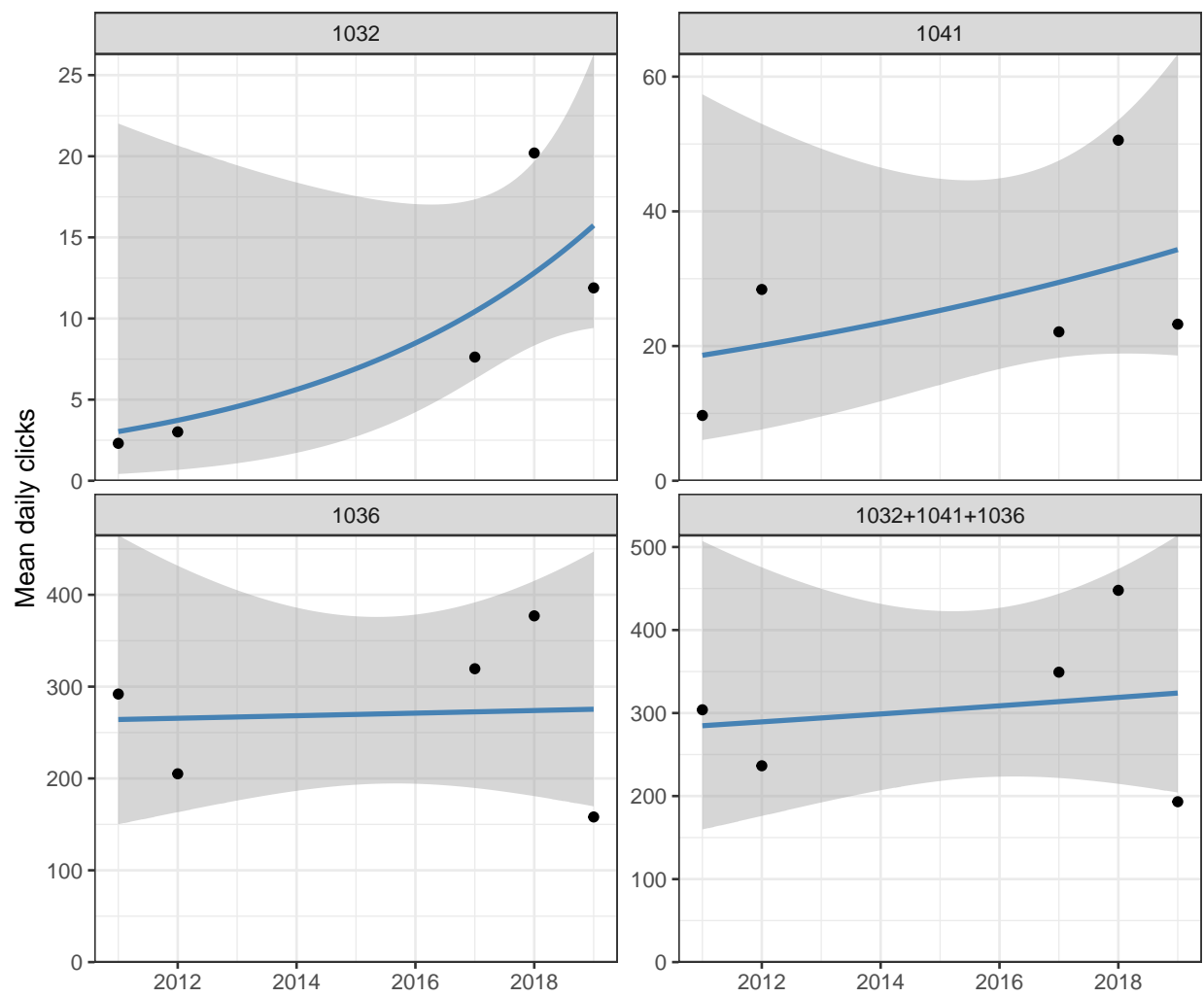


Figure 8: Yearly indices with fitted trends.

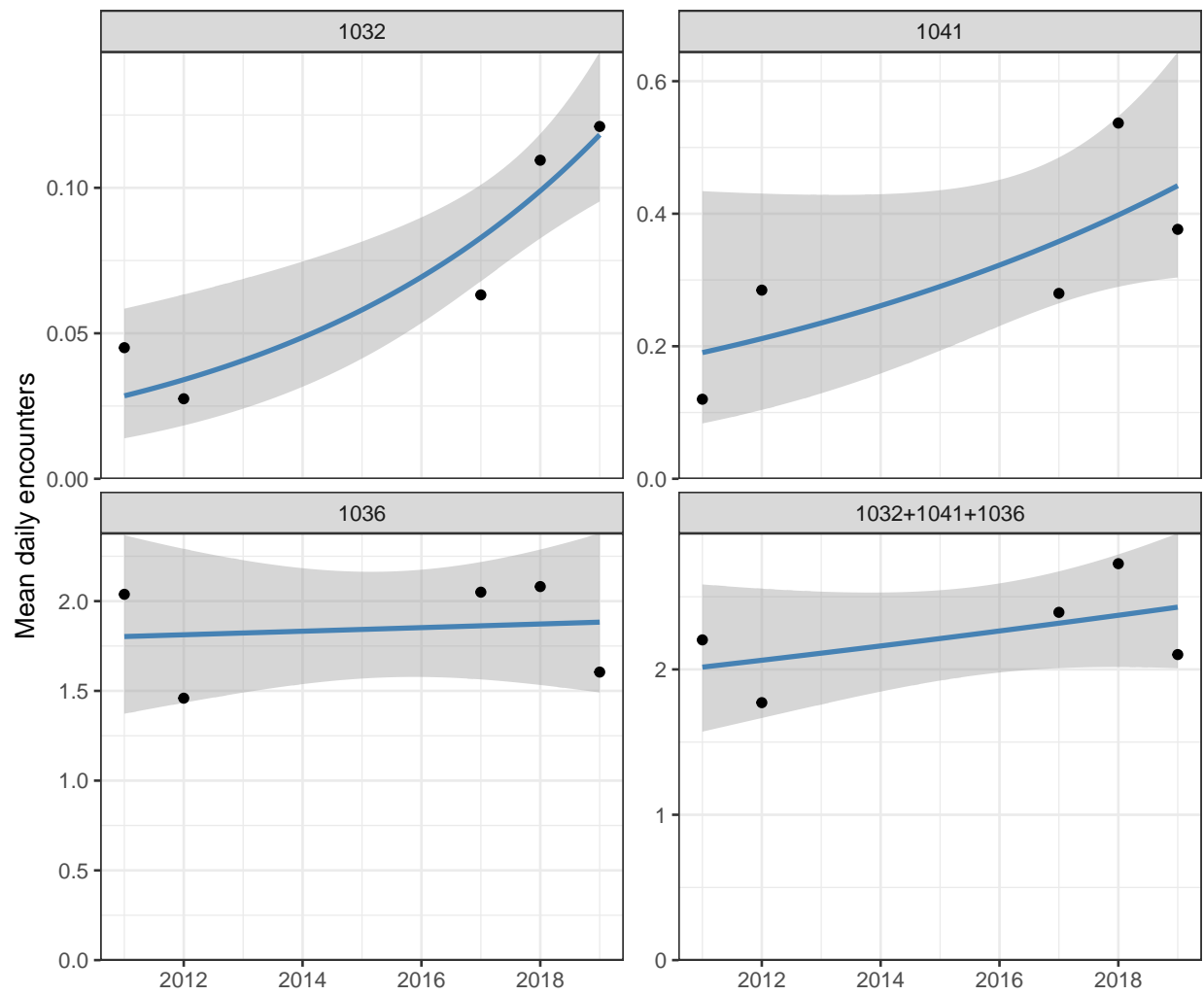


Figure 9: Yearly indices with fitted trends.

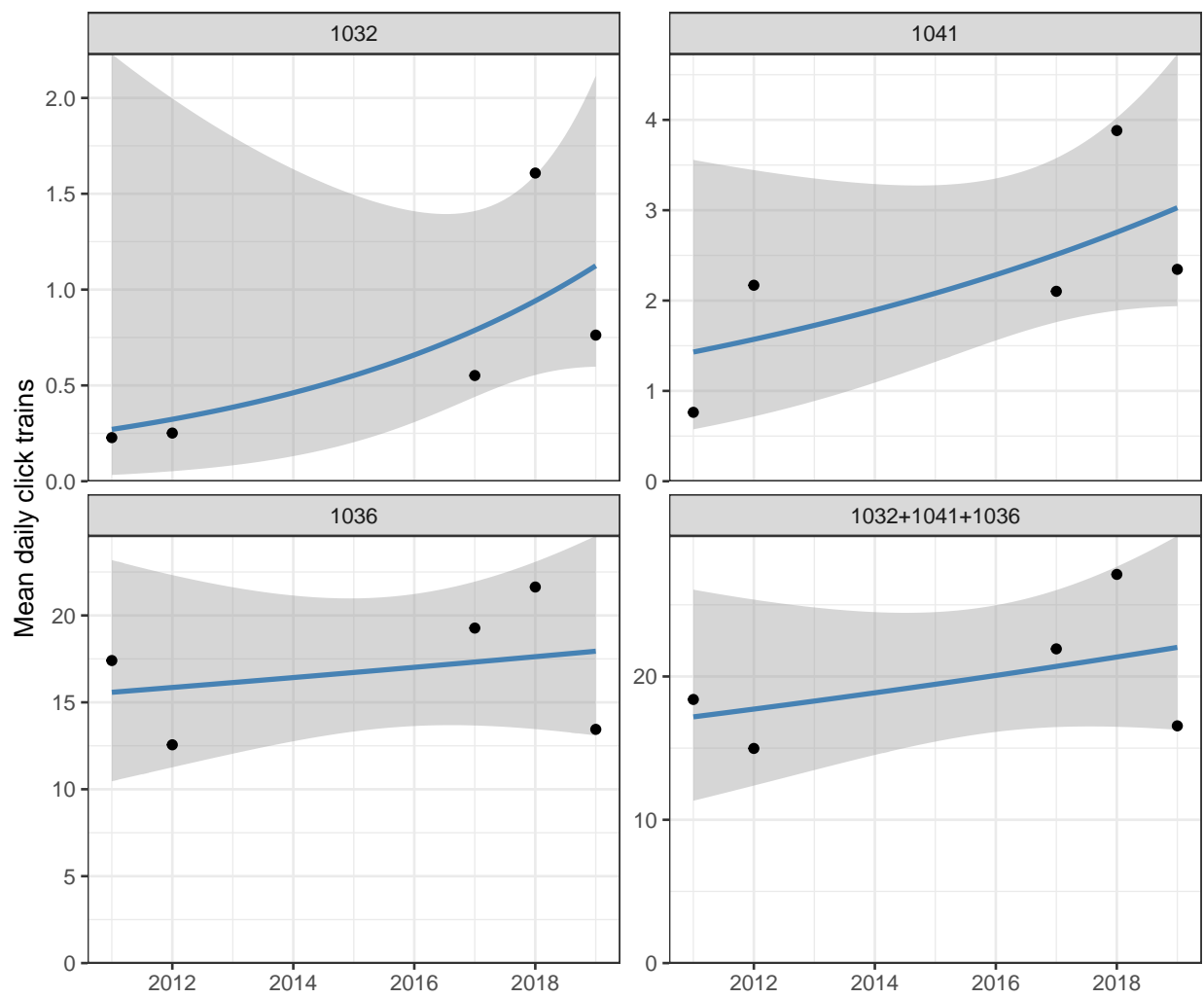


Figure 10: Yearly indices with fitted trends.