|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  | *M. alcon* | *M. teleius* | *M. scabrinodis* |
|   |   |   | pre | post | pre  | post | Queens  | Workers |
| *M. alcon* | pre | Peak Power (dB) | --- | 271.51 \*\* | 158.83 \*\* | ns | 178.59 \*\* | 110.17 \*\* |
|  |  | Peak Freq (Hz) | --- | ns | ns | ns | 81.04 \*\* | 163.33 \*\* |
|  |  | IQRBW (Hz) | --- | 117.26 \* | ns | 203.95 \*\* | 176.72 \*\* | 219.80 \*\* |
|  |  | Pulse Length (s) | --- | ns | ns | ns | 125.95 \*\* | 171.91 \*\* |
|  | post | Peak Power (dB) |  | --- | 112.68 \* | 274.83 \*\* | ns | 161.34 \*\* |
|  |  | Peak Freq (Hz) |  | --- | ns | ns | ns | 176.44 \*\* |
|  |  | IQRBW (Hz) |  | --- | 130.79 \*\* | ns | ns | 102.54 \* |
|  |  | Pulse Length (s) |  | --- | ns | ns | ns | 127.37 \* |
| *M. teleius* | pre | Peak Power (dB) |  |  | --- | 162.16 \* | ns | ns |
|  |  | Peak Freq (Hz) |  |  | --- | ns | 125.57 \*\* | 207.85 \*\* |
|  |  | IQRBW (Hz) |  |  | --- | 217.48 \*\* | 190.25 \*\* | 233.33 \*\* |
|  |  | Pulse Length (s) |  |  | --- | ns | 128.11 \*\* | 174. 08 \*\* |
|  | post | Peak Power (dB) |  |  |  | --- | 181.91 \*\* | ns |
|  |  | Peak Freq (Hz) |  |  |  | --- | ns | ns |
|  |  | IQRBW (Hz) |  |  |  | --- | ns | ns |
|  |  | Pulse Length (s) |  |  |  | --- | ns | ns |
| *M. scabrinodis* | Queens | Peak Power (dB) |  |  |  |  | --- | 68.42 \* |
|  |  | Peak Freq (Hz) |  |  |  |  | --- | 82.28 \* |
|  |  | IQRBW (Hz) |  |  |  |  | --- | ns |
|  |  | Pulse Length (s) |  |  |  |  | --- | ns |
|  | Workers | Peak Power (dB) |  |  |  |  |  | --- |
|  |  | Peak Freq (Hz) |  |  |  |  |  | --- |
|  |  | IQRBW (Hz) |  |  |  |  |  | --- |
|  |   | Pulse Length (s) |   |   |   |   |   | --- |

**Table S3. Post hoc univariate pairwise comparison of the four sound parameters between species groups.** pre = pre-adoption larvae; post = post-adoption larvae; ns statistically not significant; \* p<0.05; \*\* p<0.01.