**SUPPLEMENTAL MATERIAL**

Summary of eastern subspecies song characteristics

|  |  |  |  |
| --- | --- | --- | --- |
|  | *G. t. campicola* | *G. t.**trichas* | *G. t.**ignota* |
|   | (n = 7) | (n = 76) | (n = 11) |
| Minimal frequency (Hz) | 2630 | 2483 | 2143 |
|  | ± 484 | ± 359 | ± 258 |
| Maximal frequency (Hz) | 6655 | 6453 | 5544 |
|  | ± 595 | ± 760 | ± 462 |
| Peak frequency (Hz) | 4424 | 4480 | 4439 |
|  | ± 674 | ± 569 | ± 374 |
| Bandwidth (Hz) | 4025 | 3968 | 3401 |
|  | ±313 | ± 590 | ± 434 |
| Phrase duration (s) | 0.471 | 0.523 | 0.677 |
|  | ± 0.08 | ± 0.08 | ± 0.08 |
| Bandwidth per phrase  | 8852 | 7767 | 5120 |
| (Hz per s) | ± 2104 | ± 1647 | ± 1043 |
| Mean note duration (s) | 0.124 | 0.115 | 0.101 |
|  | ± 0.03 | ± 0.02 | ± 0.02 |
| Mean internote duration  | 0.056 | 0.053 | 0.042 |
| (s) | ± 0.01 | ± 0.01 | ± 0.01 |
| Mean notes per phrase | 2.71 | 3.17 | 4.82 |
|  | ± 0.76 | ± 0.62 | ± 0.87 |
| Mean elements per note | 1.99 | 2.00 | 1.67 |
|  | ± 0.47 | ± 0.52 | ± 0.37 |

Summary of western subspecies song characteristics

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| --- | --- | --- | --- | --- | --- |
|  | *G. t.**arizela* | *G. t.**campicola* | *G. t.**occidentalis* | *G. t.**scirpicola* | *G. t.**sinuosa* |
|  |  |  |  |  |  |
|  | (n = 4) | (n = 8) | (n = 7) | (n = 2) | (n = 3) |
| Minimal frequency (Hz) | 2334± 306 | 2417± 267 | 2323± 142 | 2041± 187 | 2450± 353 |
|  |  |  |  |  |  |
| Maximal frequency (Hz) | 7285± 979 | 7155± 744 | 6220± 572 | 7449± 463 | 7352± 187 |
|  |  |  |  |  |  |
| Peak frequency (Hz) | 5136± 802 | 4533± 732 | 4614± 606 | 4823± 487 | 5096± 431 |
|  |  |  |  |  |  |
| Bandwidth (Hz) | 4951± 1012 | 4739± 698 | 3898± 629 | 5408± 277 | 4902± 224 |
|  |  |  |  |  |  |
| Phrase duration (s) | 0.528± 0.09 | 0.545± 0.05 | 0.494± 0.08 | 0.449± 0.03 | 0.652± 0.06 |
|  |  |  |  |  |  |
| Mean note duration (s) | 0.118± 0.02 | 0.123± 0.04 | 0.119± 0.01 | 0.122± 0.04 | 0.120± 0.03 |
|  |  |  |  |  |  |
| Mean internote duration (s) | 0.058± 0.01 | 0.064± 0.01 | 0.064± 0.00 | 0.063± 0.02 | 0.079± 0.01 |
|  |  |  |  |  |  |
| Average notes per phrase | 3.00± 0 | 3.00± 0.53 | 2.71± 0.49 | 2.50± 0.71 | 3.33± 0.58 |
|  |  |  |  |  |  |
| Average elements per note | 2.58± 0.32 | 2.28± 0.38 | 2.45± 0.46 | 2.50± 0.71 | 2.78± 0.84 |
|  |  |  |  |  |  |