JMF088

…[1] and Jarrod Fowler[2]
[1] Animalia. Arthropoda. Insecta. Hymenoptera. Apocrita. Apoidea. Anthophila.
[2] http://jarrodfowler.com
Email: j@jarrodfowler.com

Genus species Authority [Family]; Pan

1. *Agapostemon sericeus* (Forster, 1771) [Halictidae]; 100% L
2. *Agapostemon texanus* Cresson, 1872 [Halictidae]; 92% L
3. *Agapostemon virescens* (Fabricius, 1775) [Halictidae]; 83% L
4. *Andrena spiraeana* Robertson, 1895 [Andrenidae]; 75% L
5. *Anthidium oblongatum* Illiger, 1806 [Megachilidae]; 67% L
6. *Augochora pura* (Say, 1835) [Halictidae]; 58% L
7. *Augochlorella aurata* (Smith, 1853) [Halictidae]; 50% L
8. *Bombus bimaculatus* Cresson, 1863 [Apidae]; 42% L
9. *Bombus impatiens* Cresson, 1863 [Apidae]; 33% L
10. *Bombus perplexus* Cresson, 1863 [Apidae]; 25% L
11. *Bombus vagans* Smith, 1854 [Apidae]; 17% L
12. *Ceratina calcarata* Robertson, 1900 [Apidae]; 8% L
13. *Hylaeus modestus* Say, 1837 [Colletidae]; 0%
14. *Halictus ligatus* Say, 1837 [Halictidae]; 8% R
15. *Halictus confusus* Smith, 1853 [Halictidae]; 17% R
16. *Halictus rubicundus* (Christ, 1791) [Halictidae]; 25% R
17. *Lasioglossum cressonii* (Roberstson, 1890) [Halictidae]; 33% R
18. *Lasioglossum leucocomum* (Lovell, 1908) [Halictidae]; 42% R
19. *Lasioglossum leucozonium* (Schrank, 1781) [Halictidae]; 50% R
20. *Lasioglossum pectorale* (Smith, 1853) [Halictidae]; 58% R
21. *Lasioglossum tegulare* (Robertson, 1890) [Halictidae]; 67% R
22. *Megachile brevis* Say, 1837 [Megachilidae]; 75% R
23. *Megachile frigida* Smith, 1853 [Megachilidae]; 83% R
24. *Megachile frugalis* Cresson, 1872 [Megachilidae]; 92% R
25. *Megachile mendica* Cresson, 1878 [Megachilidae]; 100% R

Keywords: Exology, Melittology, Non-Musicology, Pollination Ecology

Materials and methods

During February 2014, 'JMF088' was recorded with 25 species of bees, which were collected via aerial netting from the Atlantic coastal pine-barrens of eastern Massachusetts, USA in June–August 2013.

Digital audio recordings (WAV; 88.2 kHz/24 bit) were made with a RØDE NT1000 studio condenser microphone (RØDE Microphones LLC, Santa Barbara, CA), a Behringer Eurorack UB802 mixer, a UCA202 U-Control USB audio interface (Music Group IP Ltd., 47877 Willich, Germany), an iMic USB audio interface (Griffin Technology, Nashville TN), a pair of Grado SR80i headphones (Grado Labs, Brooklyn, NY), Audacity 2.0.5 free digital audio editor (BIAS Inc., Petaluma, CA), and a Apple MacBook Pro laptop computer (Apple Computer, Inc.).

All recordings were made at a constant volume level (±0dB) and were methodically edited with 'Noise Removal' to eliminate both ambient and human sounds.

For each species, recordings were made of sounds resulting from non-orthogonally, non-repetitively, and sequentially scraping and striking the abdomens, antennae, heads, legs, and thoraxes of two identical specimens.

To produce each species track, a five-minute track of silence (deadpot) was generated. Next, genus-specific recordings were non-repetitively and sequentially copied and pasted into a monitored deadpot when non-recurrent noises above a 3dB threshold haphazardly occurred around the home recording studio environment.

To yield 'JMF088', all 25 species tracks were multi-tracked. Within the stereo-field, species tracks were alphabetically organized from left to right and spatially organized at consecutive 8.33% intervals from pan 0%.

jarrodfowler.com/JMF088.wav = 105.8 MB; 88.2 kHz/16 bit. Total Running Time = 5:00.

Acknowledgements

AA, AC, JM, KD, MS, MV, SB, SC, SD, TU, and ZS.