Notes on the vocalizations of Black-chinned Honeyeater (*Melithreptus gularis*)

Peter Boesman

In the following we briefly analyze and compare voice of the two races of Black-chinned Honeyeater (*Melithreptus gularis*). We also try to quantify the extent of any vocal differences using the criteria proposed by Tobias *et al.* (2010), as a support for taxonomic review. We have made use of sound recordings available on-line from Xeno Canto (XC) and Macaulay Library (ML).

Song of both races is structurally similar, a series of repeated ringing notes, often introduced by some more raspy notes. A comparison, illustrated with sonograms:

nominate

laetior

Note shapes in song of *laetior* are seemingly more variable than in nominate, and on average lower-pitched.

Song of nominate sounds like a ringing "ree-ree-ree..." or "ree-tup-ree-tup...". Notes of *laetior* sound much less ringing, duller to the ear.

Measurement of the middle frequency of repeated notes gives following results:

nominate Av 2484Hz SD 92Hz

laetior Av 1987Hz SD 48Hz

This leads to a calculated Effect size of 6.77, resulting in a vocal score of 3 by application of Tobias criteria.

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References

Tobias, J.A., Seddon, N., Spottiswoode, C.N., Pilgrim, J.D., Fishpool, L.D.C. & Collar, N.J. (2010). Quantitative criteria for species delimitation. *Ibis* 152(4): 724–746.

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