

Notes on the vocalizations of Golden-bellied Grosbeak (*Pheucticus chrysogaster*)

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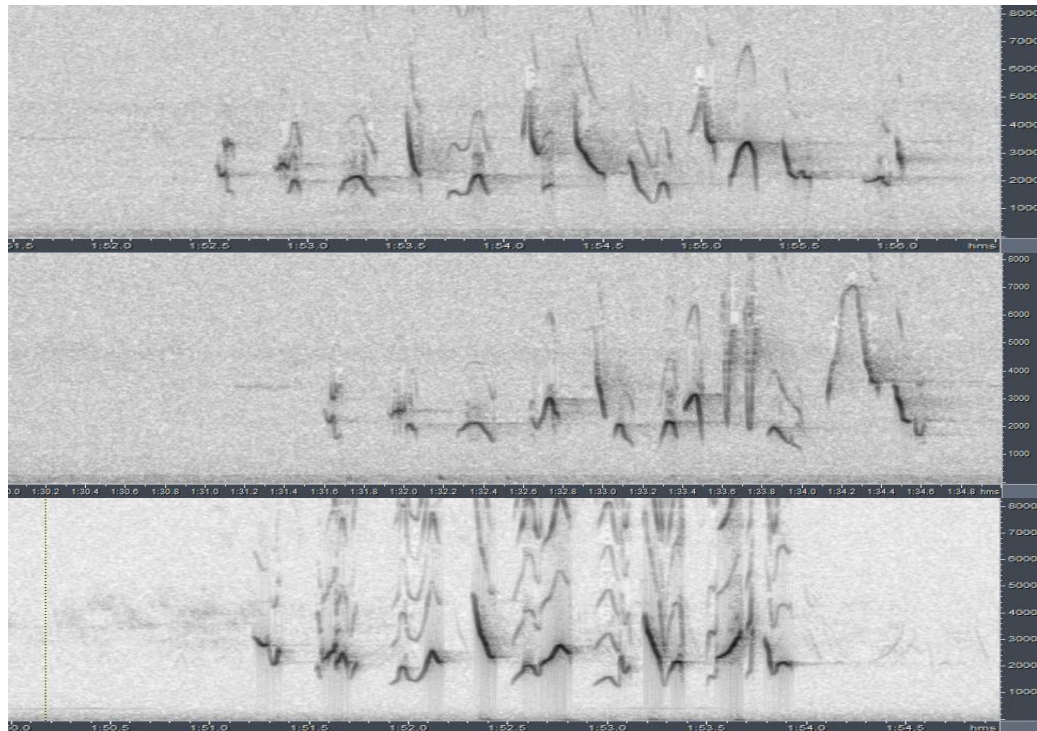
In the following we briefly analyze and compare voice of the two races of Golden-bellied Grosbeak (*Pheucticus chrysogaster*). We also try to quantify the extent of any vocal differences using the criteria proposed by Tobias *et al.* (2010), as a support for taxonomic review. We have made use of sound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

An overview of voice of both races, illustrated with sonograms:

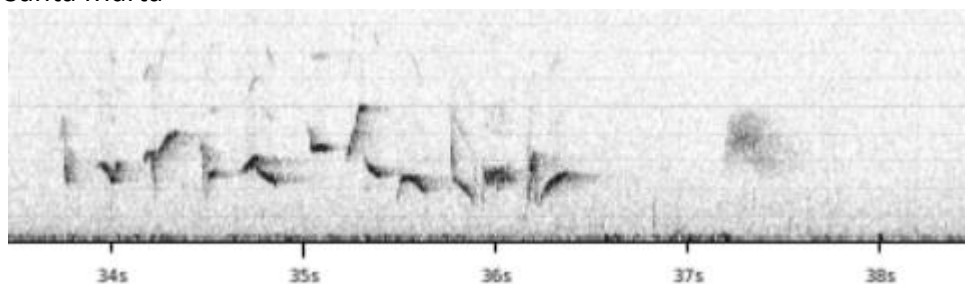
laubmanni

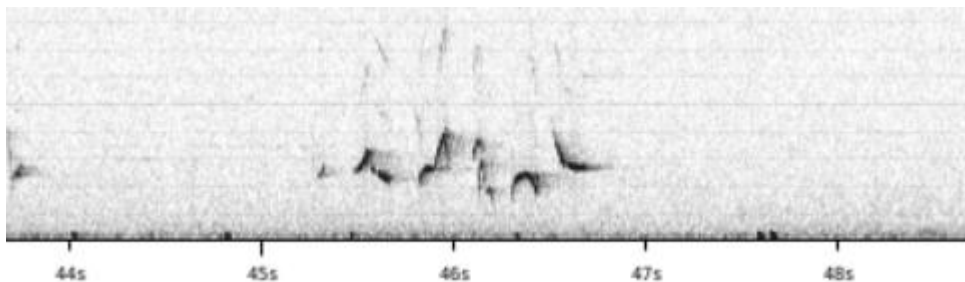
Song

Venezuela

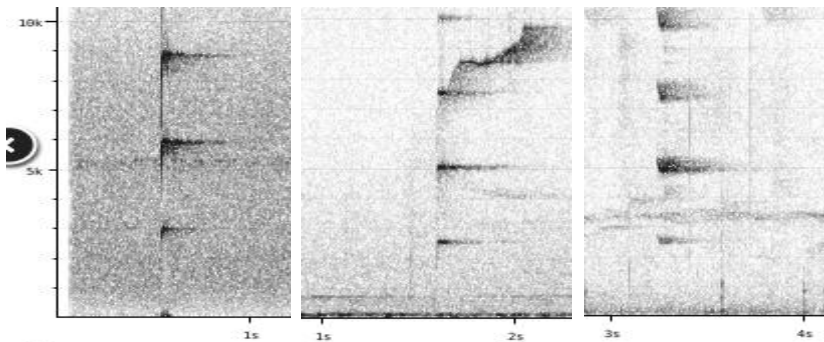


Santa Marta



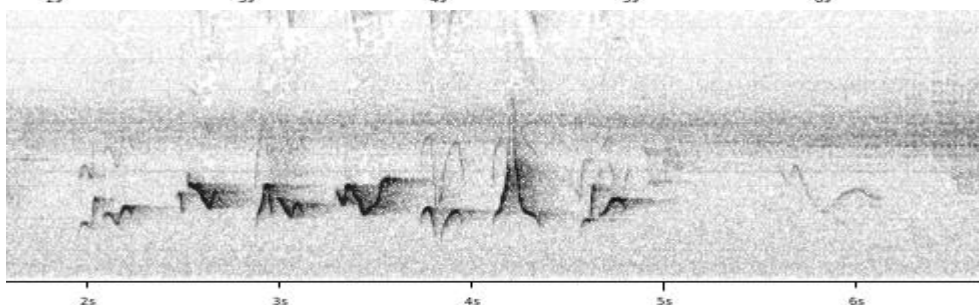
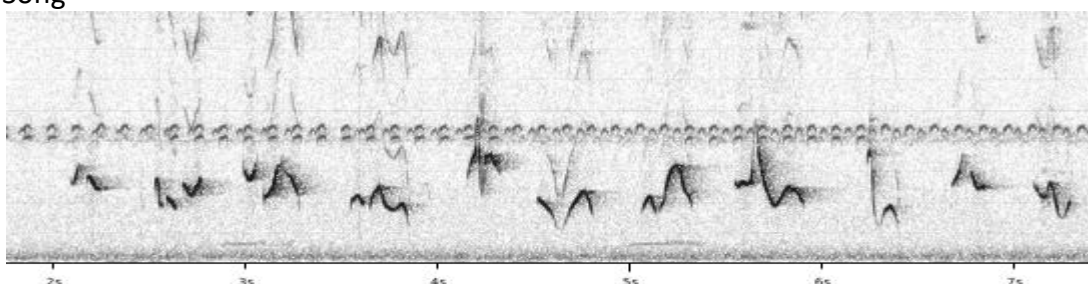


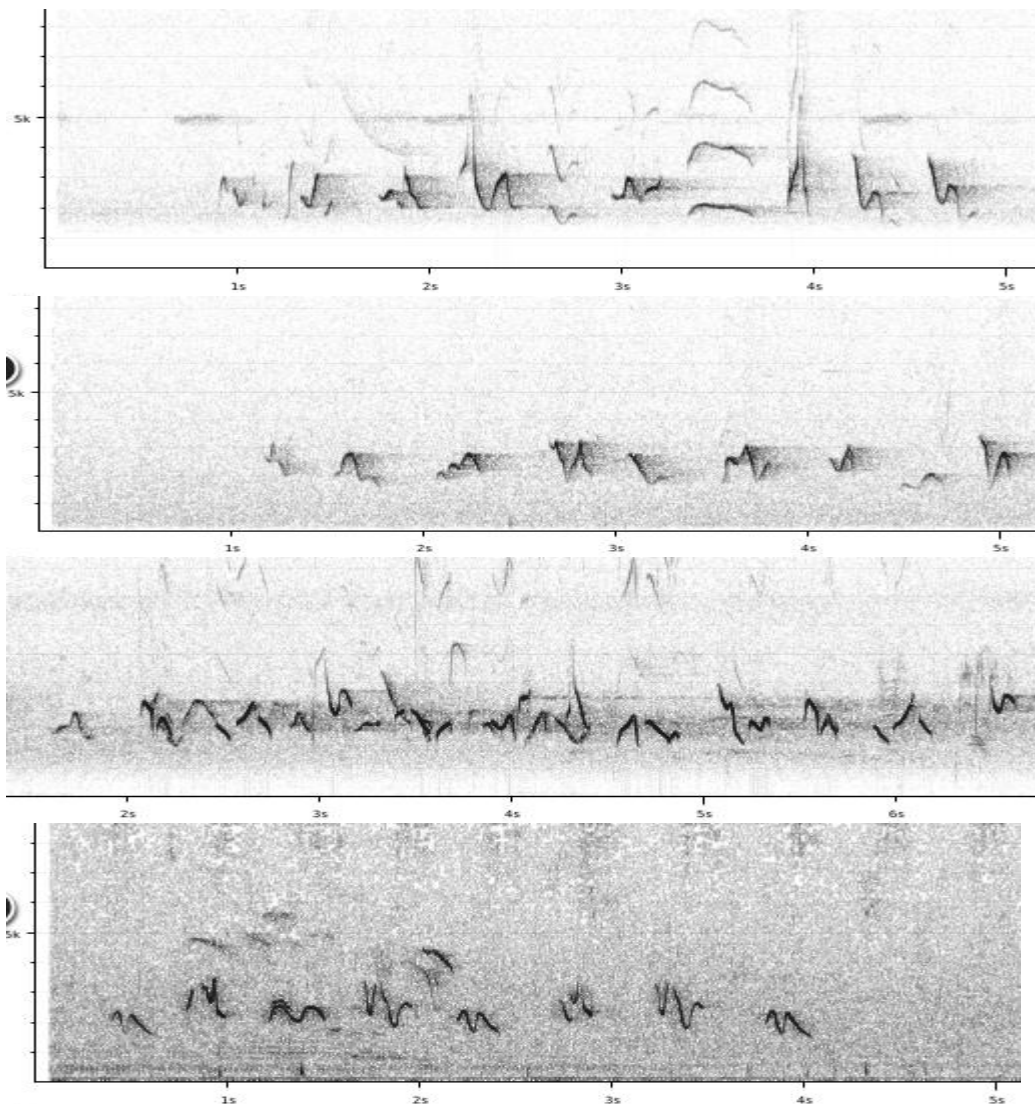
Calls



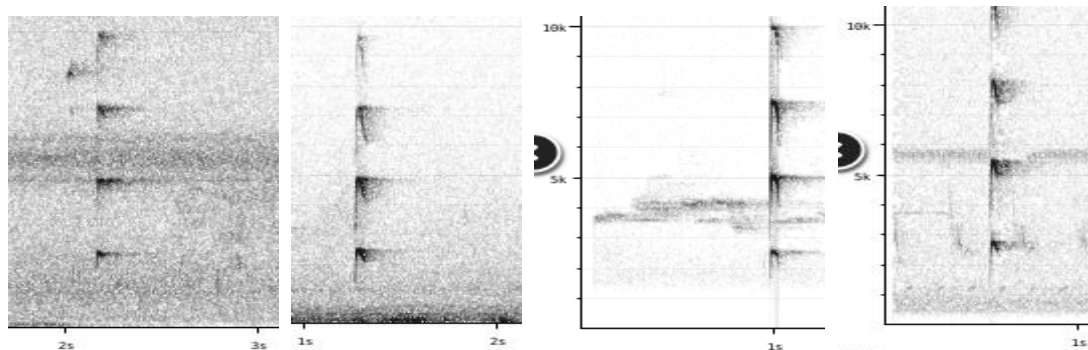
Nominate

Song

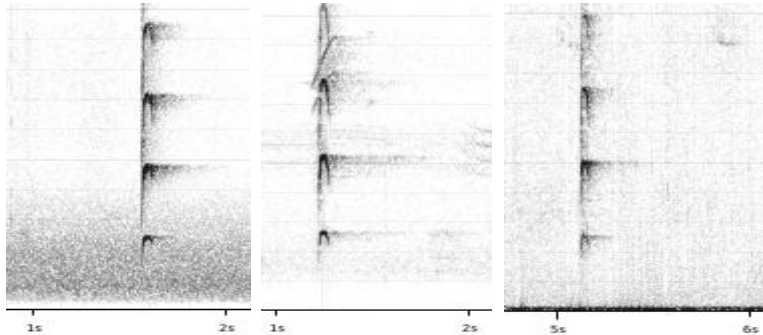




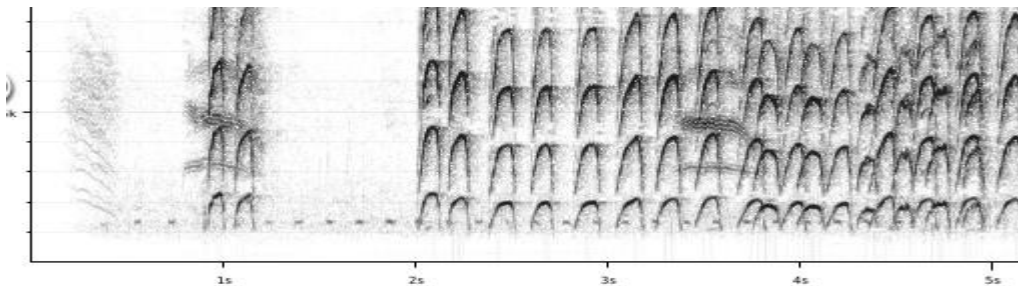
Calls
Ecuador



Peru



alarm call



Vocal differences between both races seem to be rather small.

On average, *laubmanni* has more simple-shaped notes in every song phrase, e.g. simple downslurred or overslurred note shapes (c. 10-50% of notes) while nominate typically lacks such notes, but some song phrases are indistinguishable (score 1-2).

The short 'pik!' call is about the same in both races (possibly slightly higher-pitched on average in *laubmanni* ??). Several other calls have been recorded for nominate, but there are apparently no recordings of equivalent homologous calls for *laubmanni*.

Vocal differences between both races are thus minor, leading to a total vocal score of 1-2.

This note was finalized on 29th June 2016, using sound recordings available on-line at that moment. We would like to thank in particular the many sound recordists who placed their recordings for this species on XC and ML.

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.

Recommended citation

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