

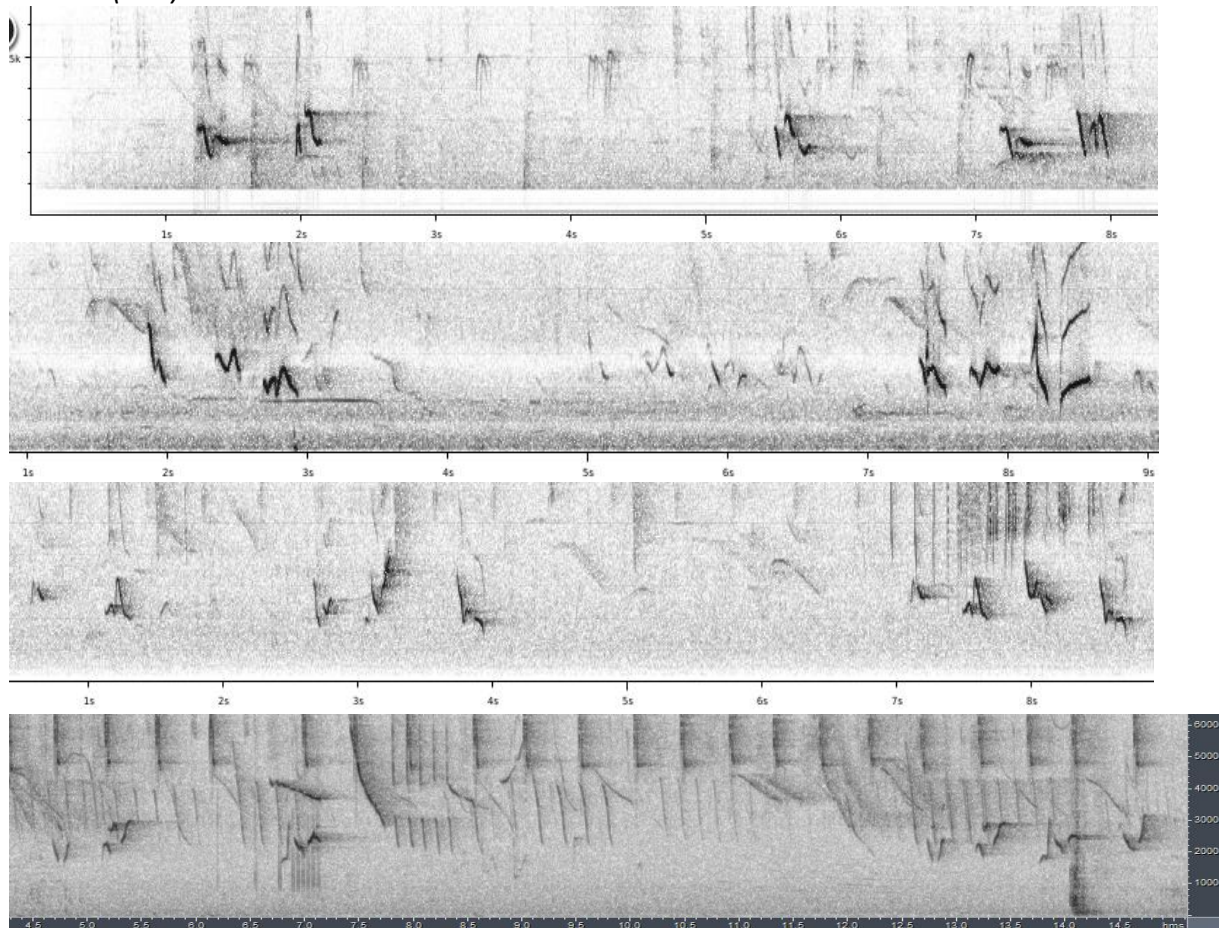
## Notes on the vocalizations of Black-backed Grosbeak (*Pheucticus aureoventris*)

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In the following we briefly analyze and compare voice of the different races of Black-backed Grosbeak (*Pheucticus aureoventris*). 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).

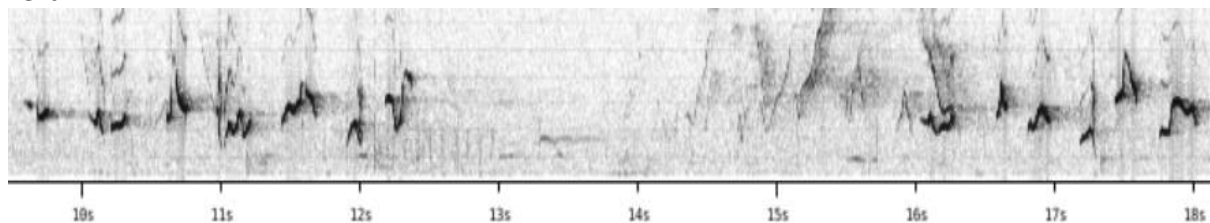
Our main interest is to compare yellow-throated race *crissalis* with all other (black-throated-) races. An overview of song illustrated with sonograms:

*crissalis* (n=4)

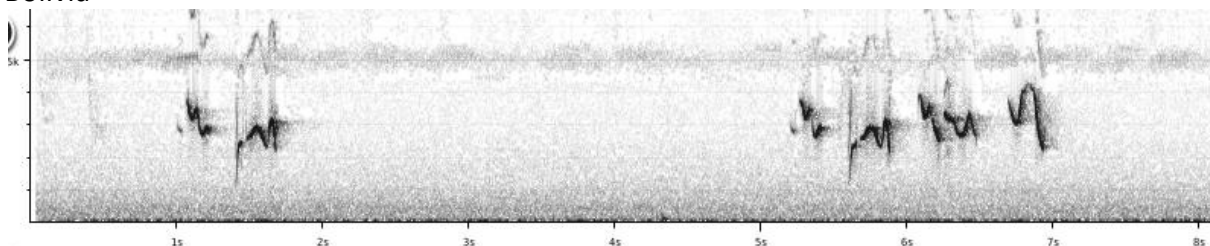


southern races

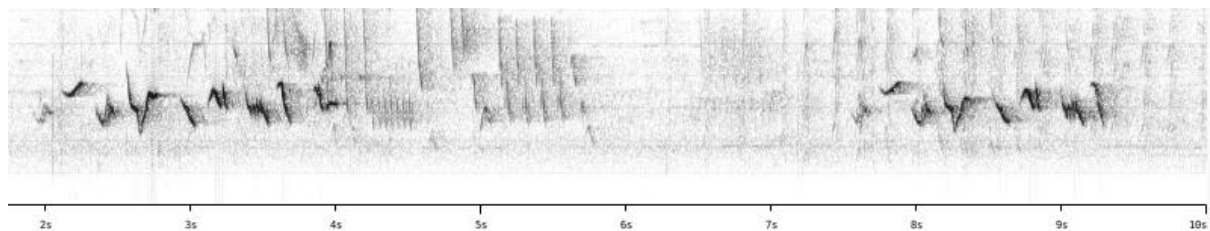
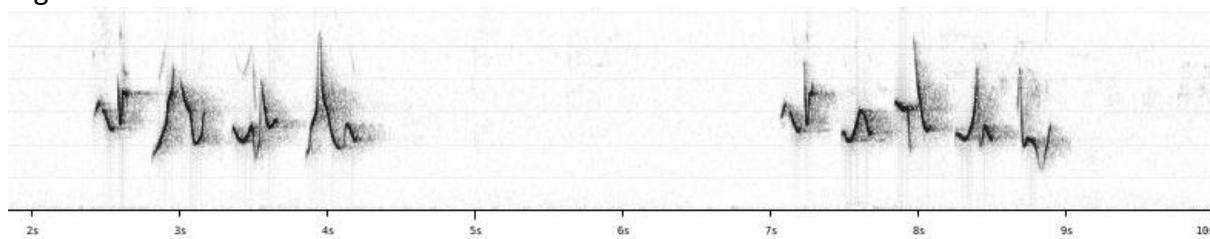
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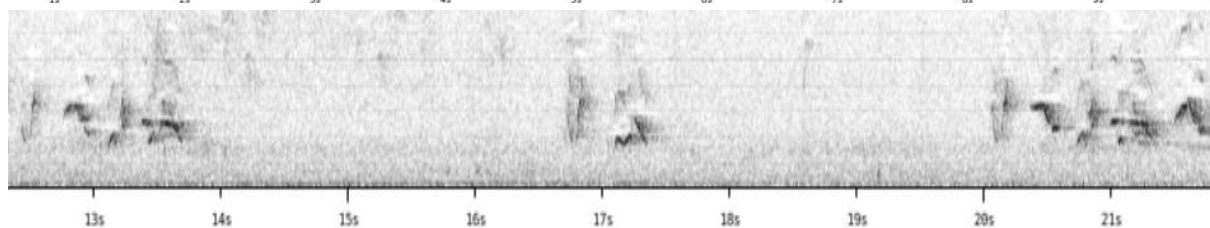
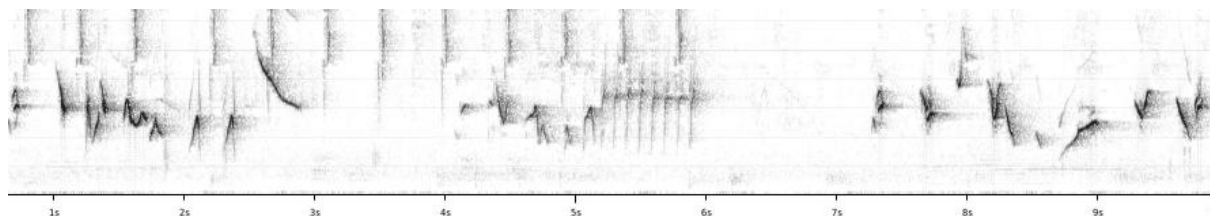
Bolivia



Argentina



northern race (Colombia)



Song of all races is rather similar. *crissalis* seems to differ however in having very short song phrases of just a few notes (1-4 notes, duration 0.5-2s). Other races typically have somewhat longer song phrases with more notes (2-10 notes, duration 0.7 - 3s). Based on phrase length and number of notes, a total vocal score  $1 + 1 = 2$  could be given.

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 sound recordists who placed their recordings for this species on XC, ML: Roger Ahlman, Michael Anderson, Juan Areta, Nick Athanas, Peter Boesman, Paul Coopmans, Pablo Florez, José Giraldo, Mateo Hernandez, Niels Krabbe, Dan Lane, Bernabe Lopez-Lanus, Sjoerd Mayer, John V Moore, Gabriel Leite, Ted Parker, Mark Robbins, Fabrice Schmitt, Thomas Schulenberg, Glenn Seeholzer and Andrew Spencer.

### 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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