

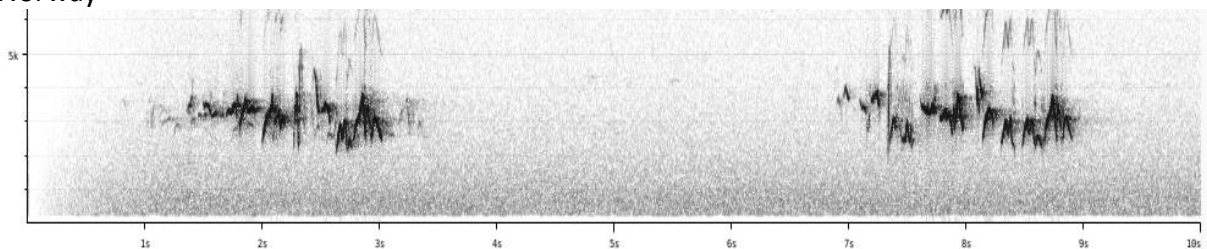
Notes on the vocalizations of Pine Grosbeak (*Pinicola enucleator*)

Peter Boesman

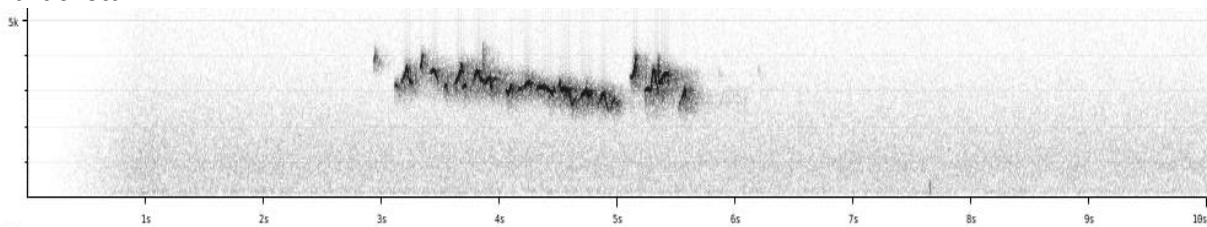
In the following we briefly analyze and compare voice of the different races of Pine Grosbeak (*Pinicola enucleator*). We also try to quantify the extent of any vocal differences using the criteria proposed by Tobias *et al.* (2010), as a support for taxonomic review. We have made use of sound recordings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

Song is a variable strophe of clear melodious whistles at about the same pitch (strophe duration c 2-3s, most notes between 2 and 4kHz). There are only few recordings available from the vast Asian range. A few examples:

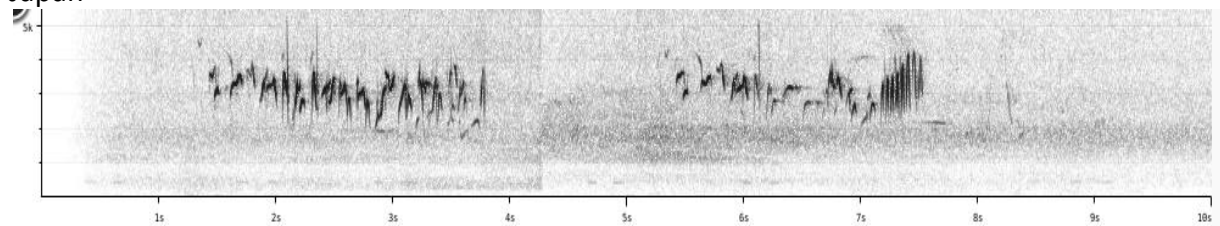
Old World
Norway



Kazakhstan

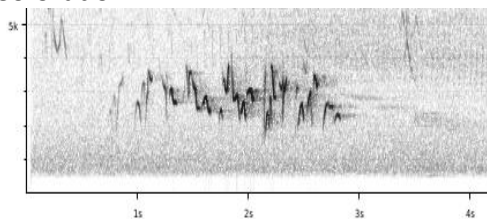


Japan

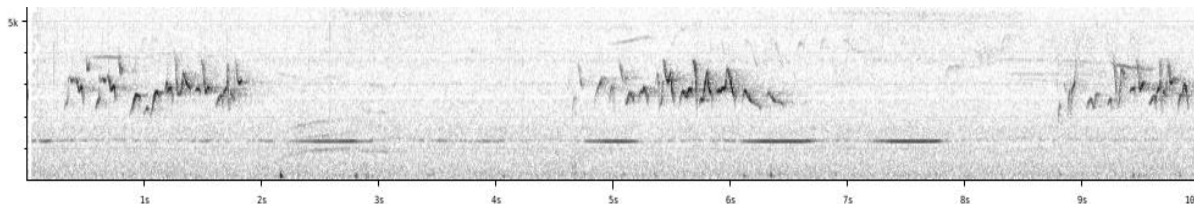


New World

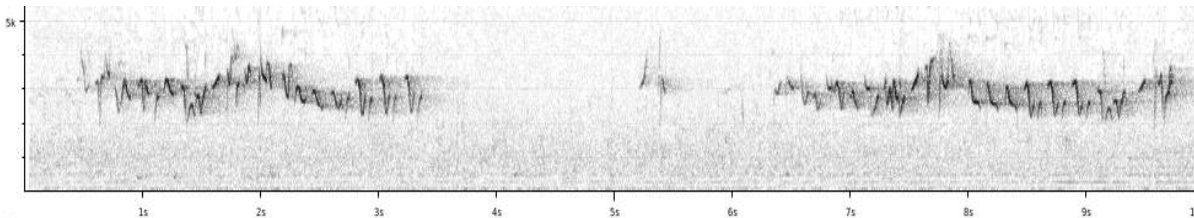
Colorado



Canada



Alaska



It would seem that song in Old and New World is quite similar. Basic sound parameters (phrase length, note length, pace, freq. range..) are all quite similar. Even many note shapes are similar.

The repertoire of call notes seems to be fairly extensive, and a much larger set of recordings would be needed to prove any consistent vocal difference between races.

Based on available recordings, we can only conclude that there are no obvious vocal differences.

This note was finalized on 20th May 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.

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

Boesman, P. (2016). Notes on the vocalizations of Pine Grosbeak (*Pinicola enucleator*). *HBW Alive Ornithological Note* 353. In: *Handbook of the Birds of the World Alive*. Lynx Edicions, Barcelona. (retrieved from <http://www.hbw.com/node/1252886> on 27 October 2016).