

Notes on the vocalizations of Barred Fruiteater (*Pipreola arcuata*)

Peter Boesman

In the following we briefly analyze and compare voice of both races of Barred Fruiteater (*Pipreola arcuata*). 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).

Barred Fruiteater has two 'song-type vocalisations': a commonly heard fairly short overslurred high-pitched whistle, and a less common remarkably long whistle steadily increasing in pitch (the latter only documented for birds from S Ecuador to further south, I assume thus for both races) (Fig. 1).

long whistle

	<i>arcuata</i> (n=3)	<i>viridicauda</i> (n=5)
start freq.	5500-6200Hz	5500-6000Hz
end freq.	8900-10100Hz	9000-9500Hz
length	5-5.5s	4-4.5s

There seems to be a small difference in length of the whistle (although a larger sample size would be needed to prove this is not a pure coincidence).

Short whistle

	<i>arcuata</i> (n=5)	<i>viridicauda</i> (n=5)
min. freq.	6000-8000Hz	6000-7000Hz
max. freq.	7500-10000Hz	8000-8500Hz
length	1.8-2.2s	2.0-2.5s
freq. range	1200-2000Hz	1900-2000Hz

There is considerable overlap in all basic parameters. Note shape is also quite variable for both races, without clear pattern. Apparently no diagnostic differences.

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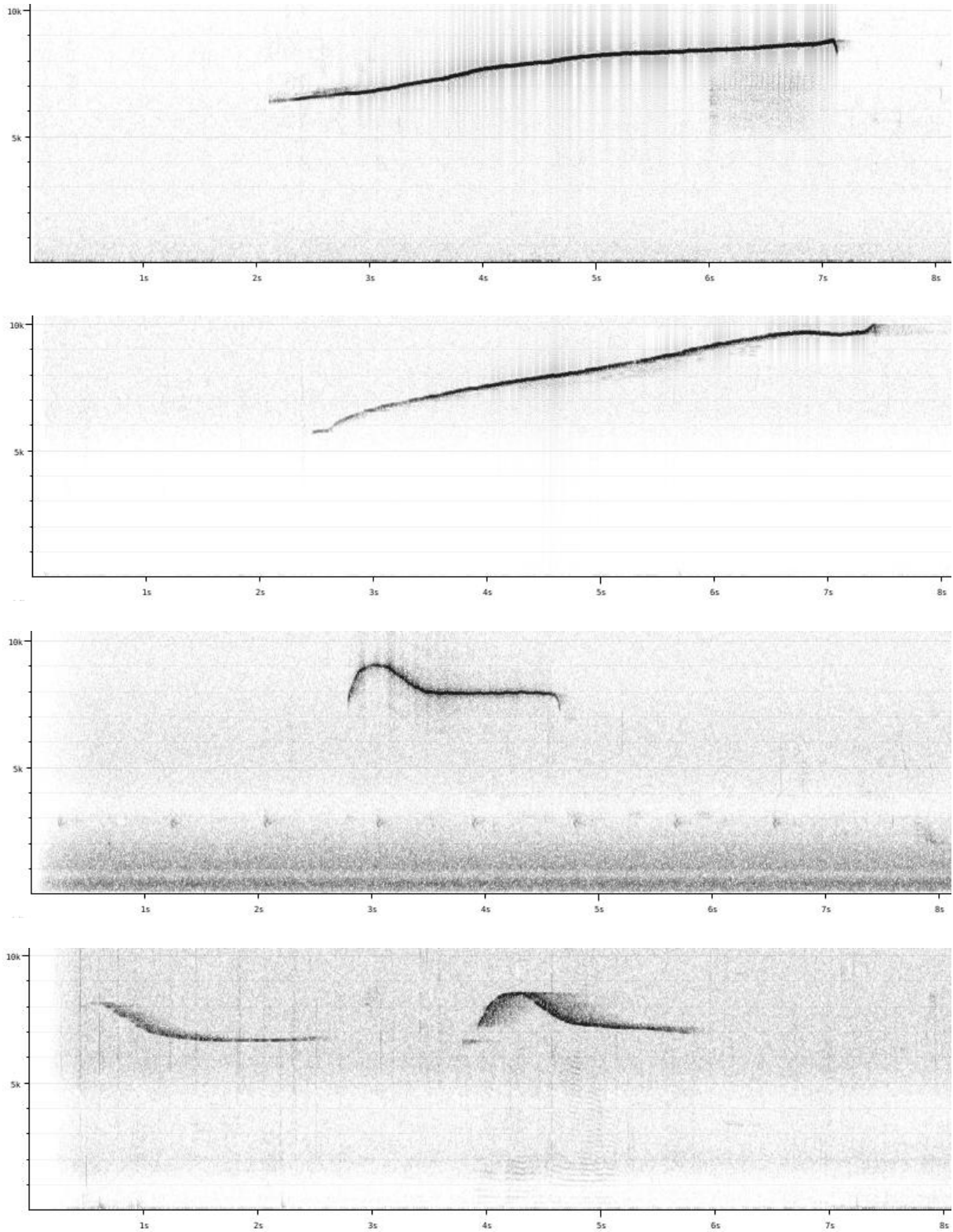


Figure 1: from top to bottom: example of long whistle of *arcuata*, *viridicauda*, short whistle of *arcuata*, *viridicauda*.

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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