

Notes on the vocalizations of Green Manakin (*Chloropipo holochlora*)

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In the following we briefly analyze and compare voice of the different races of Green Manakin (*Chloropipo holochlora*). 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).

litae and *suffusa* occur west of the Andes in the Chocó region, while *holochlora* and *viridior* occur in the foothills east of the Andes. Presumed song or advertising call of both groups is quite different (although it should be mentioned that we have not found recordings of *suffusa* and *viridior*):

litae (n=5)

A sweet thin whistle, initially sharply rising, then gradually falling in pitch (Fig. 1).

length	0.36-0.57s
freq. range	1500-2500Hz
min freq.	3350-4500Hz
max. freq.	5400-6000Hz
location max. freq.	0.025-0.05s

holochlora (n=4)

A thin gradually rising whistle with slight drop at the end (Fig. 1)

length	0.23-0.66s
freq. range	1500-2400Hz
min freq.	2600-4000Hz
max. freq.	5000-6300Hz
location max. freq.	0.23-0.65s

We assume here that this single whistle is the song or advertising call and thus the main vocalization, despite not being described in Snow (2015), but the structural similarity with the closely related *C. uniformis* leaves little doubt (Fig. 1).

Basic sound parameters are similar, the rising vs. falling whistle can however be quantified by e.g. location of the max. frequency (score 4). Note shape is clearly different with *litae* always first briefly rising, then falling while *holochlora* steadily rising with a steep drop at end (1). When applying Tobias criteria this results in a vocal score of 4-5.

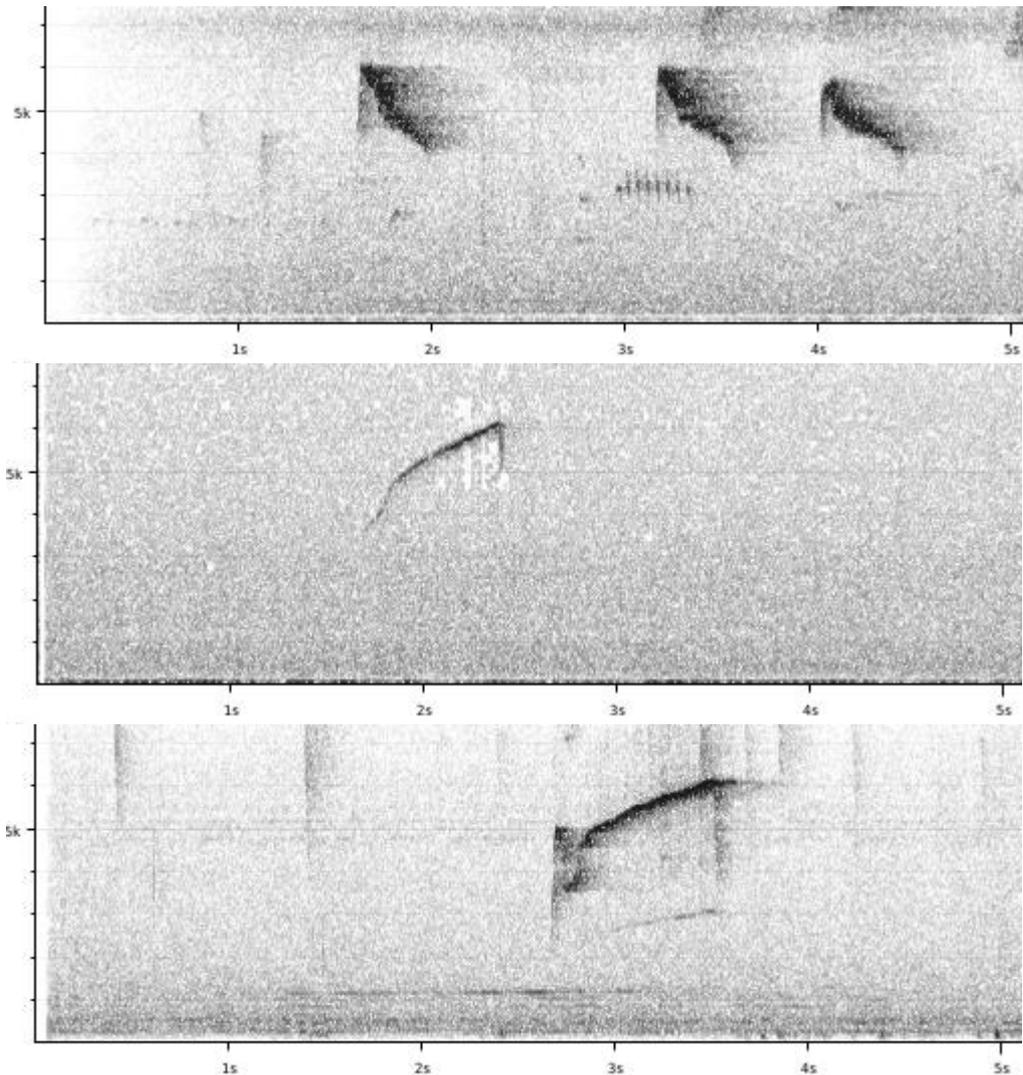


Figure 1: from top to bottom: typical song of *C.h.litae*, *C.h.holochlora* and *C. uniformis*

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References

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