

## Notes on the vocalizations of Slaty-capped Flycatcher (*Leptopogon superciliaris*)

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In the following we briefly analyze and compare voice of the two races of Slaty-capped Flycatcher (*Leptopogon superciliaris*). 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).

Voice of *L.s. superciliaris* is quite similar over its entire range.

Despite a fairly extensive vocabulary, the vocalization heard mostly by far is a nasal double note "whit!-cha", sometimes in a short series and preceded by a few short introductory notes. This is presumably the day-time song

Voice of *L.s. albidiventris* seems to be more varied, and a similar double note as *superciliaris* is often heard as part of a more extensive phrase.

I will compare here this double note solely, although it is not entirely clear if this vocalization has the same function in both races:

### *L.s. superciliaris*(n=8)

Despite quite some variability, the second note is normally short and always downslurred

length 1st note	0.05-0.075s
length 2nd note	0.04-0.19s
max. freq. 1st note	1850-2590Hz
max. freq. 2nd note	1900-2500Hz
total length	0.21-0.36s
freq. range	1000-1500Hz

### *L.s. albidiventris*(n=7)

Despite quite some variability, the second note is always rather long and ends upslurred (the second note is actually often distinctly bisyllabic) "whit-t-cheee".

length 1st note	0.05-0.14s
length 2nd note	0.20-0.36s
max. freq. 1st note	1600-3400Hz
max. freq. 2nd note	1750-2800Hz
total length	0.38-0.60s
freq. range	750-1800Hz

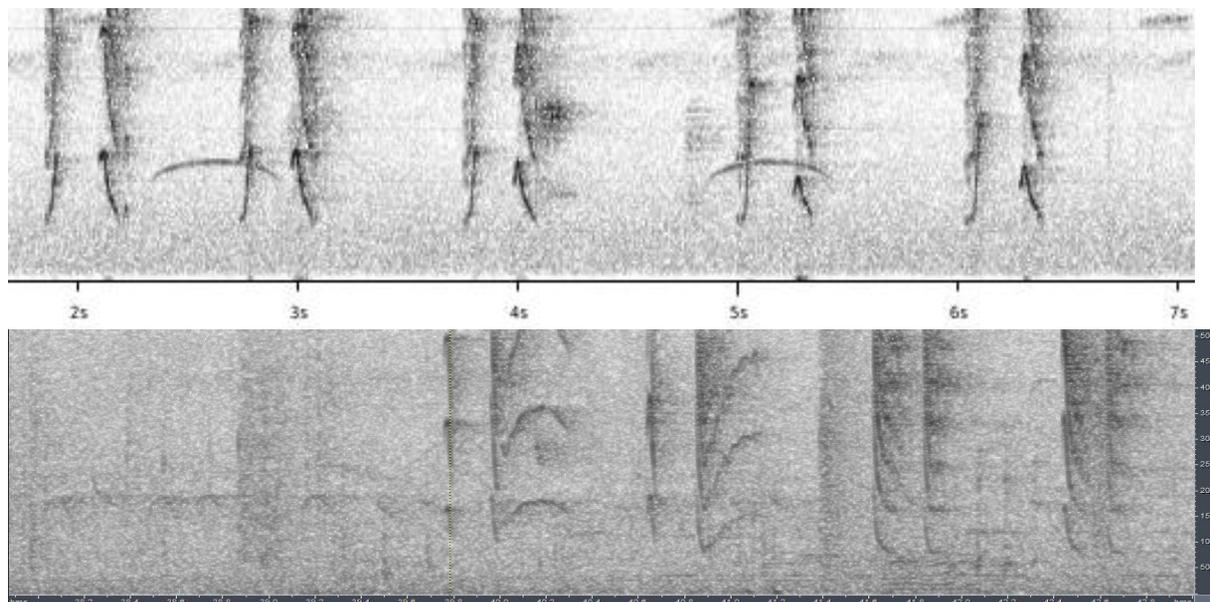


Figure 1: typical day-time vocalization of *superciliaris* (top) and *albidiventris* (bottom)

*albidiventris* differs in having a longer double note (score 2-3), with a longer second note (score 2-3) which is upslurred instead of downslurred (score 1-2). Both races can thus be easily identified. If we apply Tobias criteria on this vocalization, total score for vocal difference would be about 4-5.

This note was finalized on 1st July 2015, 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.

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