

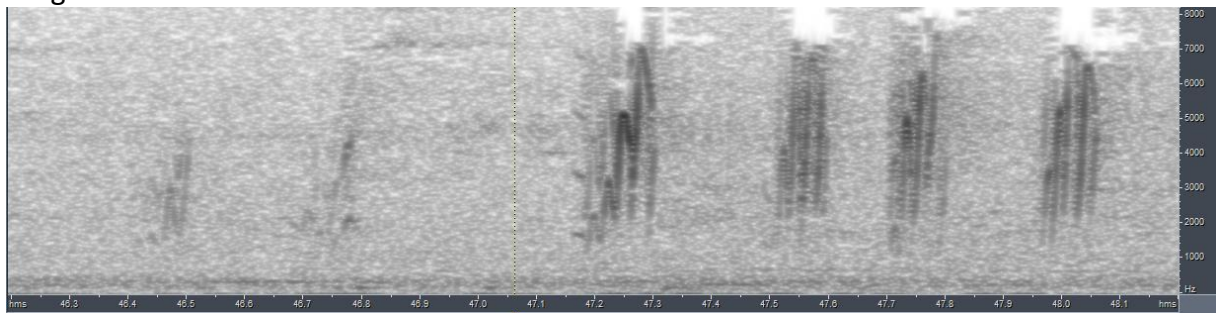
## Notes on the vocalizations of Northern Rough-winged Swallow (*Stelgidopteryx serripennis*)

Peter Boesman

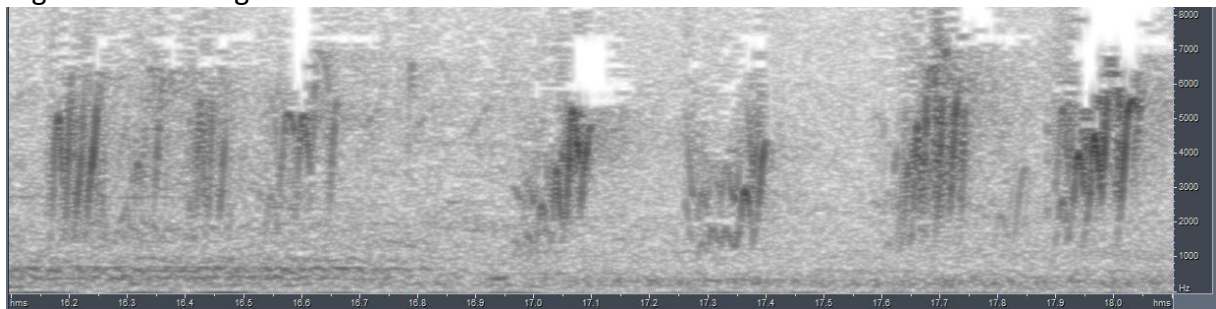
In the following we briefly analyze and compare voice of the different races of Northern Rough-winged Swallow (*Stelgidopteryx serripennis*). We also try to quantify the extent of any vocal differences using the criteria proposed by Tobias *et al.* (2010), as a support for taxonomic review. We have made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

We have only found two recordings of races *ridgwayi/stuarti* (ML139404 and ML139412, recorded by Greg Budney in Tikal, Guatemala on 18-26 March 2009. We assume these are indeed *stuarti*, based on distribution and slightly different voice, but we can't be entirely certain as northern races may also reach this region during winter):

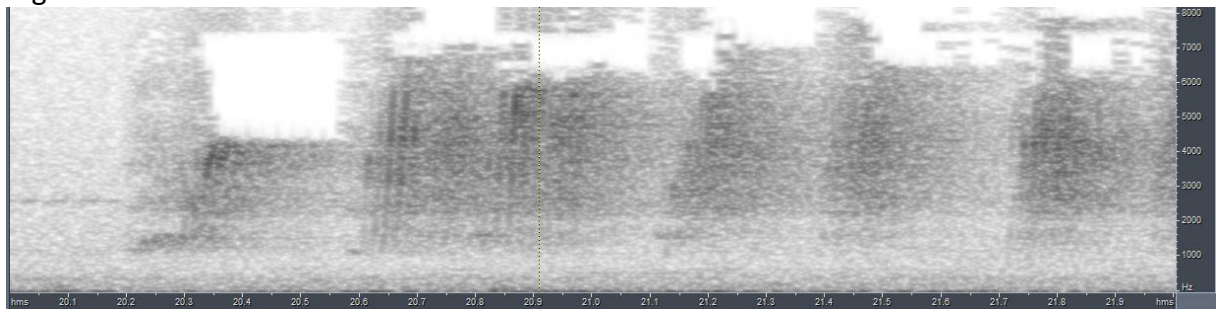
Song or excited calls?



Flight call and song or excited calls?

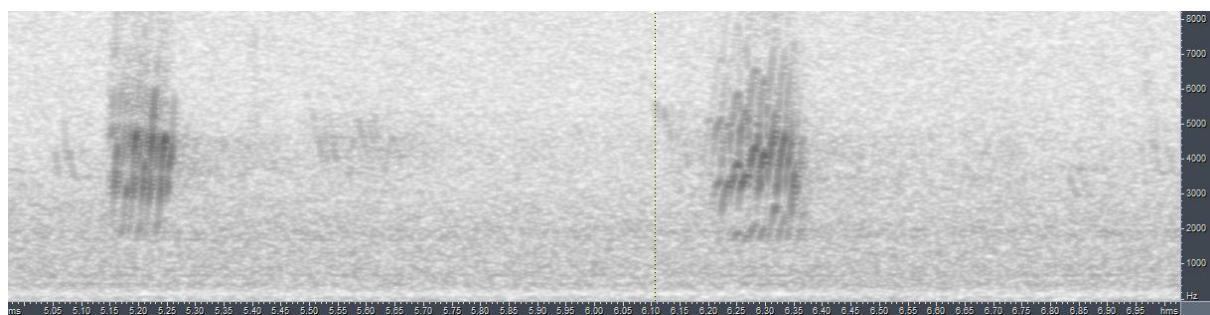
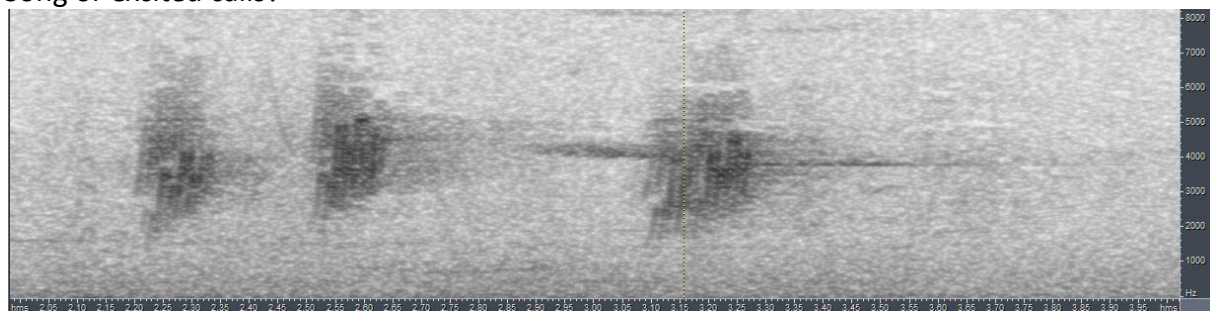


Flight call

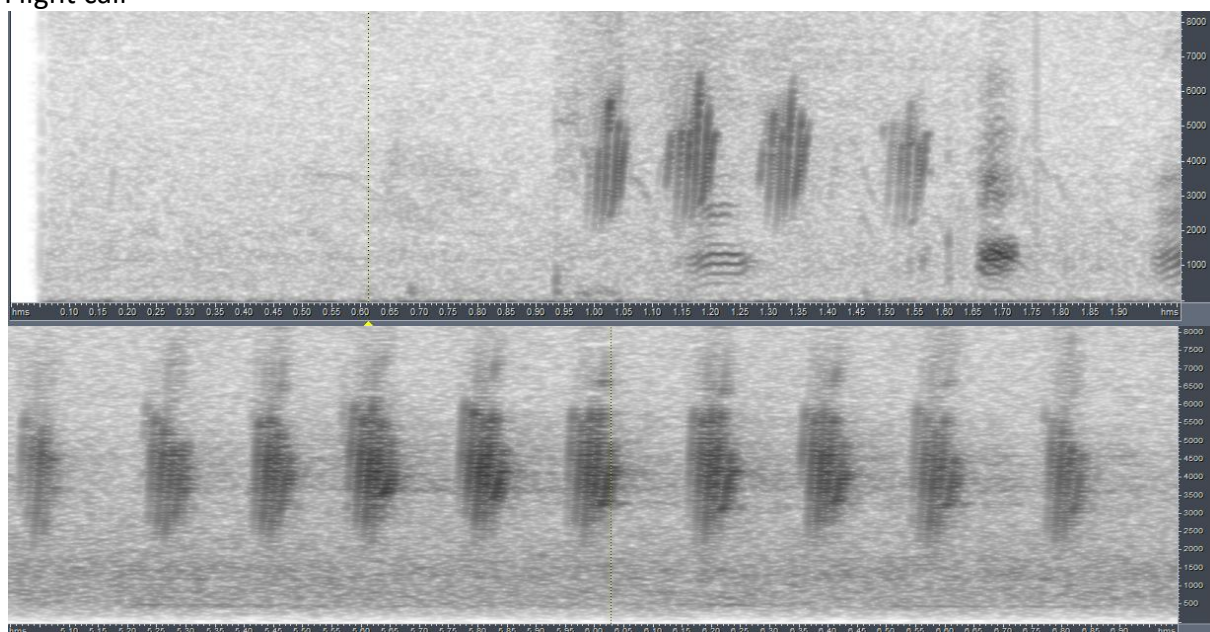


Examples of other races:

Song or excited calls?



Flight call



Flight calls of *ridgwayi/stuarti* seem to be very similar to other races, but possibly slightly lower-pitched. Excited calls or song are somewhat different, with notes seemingly covering a wider frequency range (bandwidth 4-6kHz vs c. 3kHz). If confirmed by more recordings, this would lead to a vocal score of about 2.

This note was finalized on 17th February 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 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.

### Recommended citation

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