

# Single-species Songscope Recognizers

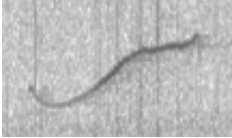

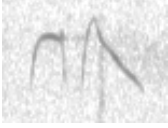



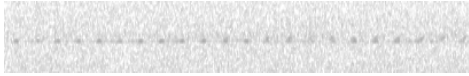
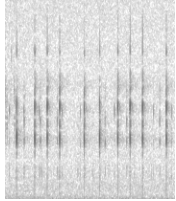
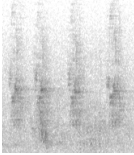




Researchers at the Bioacoustic Unit are pleased to offer the following single-species recognizers developed in Songscope free for use. Contact the Bioacoustic Unit for more information on automated recognition development and services.

Last Updated on: January 22, 2020

Common Name	Species Name	Recognizer Name	Quality/Score‡	Example Annotation
Barred Owl	<i>Strix varia</i>	BADO.ssr	50 / 60	
Bay-breasted Warbler	<i>Setophaga castanea</i>	BBWA.ssr	20 / 60	
Boreal Owl	<i>Aegolius funereus</i>	BOOW.ssr	50 / 60	
Canadian Toad (multiple calling intensities†)	<i>Bufo hemiophys</i>	CATO.ssr	20 / 50	
Canada Warbler	<i>Cardellina canadensis</i>	CAWA.ssr	50 / 60	
Common Nighthawk*	<i>Chordeiles minor</i>	CONlp.ssr	20 / 50	



Common Name	Species Name	Recognizer Name	Quality/Score $\pm$	Example Annotation
Eastern Wood-Pewee	<i>Contopus virens</i>	EAWP.ssr	50 / 60	
Great Horned Owl	<i>Bubo virginianus</i>	GHOW.ssr	50 / 60	
Olive-sided Flycatcher	<i>Contopus cooperii</i>	OSFL.ssr	50 / 70	
Rusty Blackbird	<i>Euphagus carolinus</i>	RUBL.ssr	50 / 60	
Spring Peeper (multiple calling intensities)	<i>Pseudacris crucifer</i>	SPPE.ssr	20 / 50	
Western Chorus Frog (multiple calling intensities)	<i>Pseudacris triseriata</i>	WCFR.ssr	20 / 50	
Western Toad (multiple calling intensities)	<i>Anaxyrus boreas</i>	WETO.ssr	20 / 60	
Yellow Rail	<i>Coturnicops novaboracensis</i>	YERA.ssr	50 / 75	
Bank Swallow	<i>Riparia riparia</i>	BANS.ssr	N/A	
Barn Swallow	<i>Hirundo rustica</i>	BARS.ssr	N/A	
Brown Creeper	<i>Certhia americana</i>	BRCR.ssr	N/A	



Common Name	Species Name	Recognizer Name	Quality/Score‡	Example Annotation
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	NSWO.ssr	N/A	

\*For more information: Knight & Bayne (2019) Classification threshold and training data affect the quality and utility of focal species data processed with automated audio-recognition software, *Bioacoustics*, 28:6, 539-554, DOI: 10.1080/09524622.2018.1503971; Knight et al. (2017) Recommendations for acoustic recognizer performance assessment with application to five common automated signal recognition programs. *Avian Conservation and Ecology* 12(2):14, DOI: <https://doi.org/10.5751/ACE-01114-120214>.

†Multiple calling intensities used to build recognizers; for more information: Annich et al. (2019). Identifying Canadian Toad (*Anaxyrus hemiophrys*) habitat in Northeastern Alberta, Canada. *Herpetological Conservation Biology* 14(2):503-514.

‡Quality and score are recommended settings

