

**SONG SLEUTH SOFTWARE MODULES FOR BIRDS OF THE CONTIGUOUS 48 UNITED STATES**

**Version 1.3 Release Notes**

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**Changes from 1.1**

- 1. Improvements to birdsong recognition algorithms for greater accuracy
- 2. New adaptive noise reduction for improved field performance

**Changes from 1.0:**

- 1. Added warbler modules for species east and west of the rockies
- 2. Moved Canada Goose from low to high band
- 3. Add support for display in english or latin, order alphabetically or taxonomically (needs system software 1.1 or higher)
- 4. Improved library recording audio quality for Black-and-white, Chestnut-sided, Prothonoatory, Yellow, and Yellow-rumped warblers and the American Redstart
- 5. Improvements to overall recognition performance

**Warbler module notes:**

- 1. Warbler modules are divided into eastern and western regions along the rocky mountains
- 2. Warbler modules require Song Sleuth System Software version 1.1 or higher
- 3. Warbler modules record at 32,000 samples per second (instead of 16,000 in common bird modules)

Species	Frequency band High/Low	Some calls included	Common Birds														Warblers	
			California	Central	Florida	Mid-Atlantic	Mid-South	Midwest	North Central	Northeast	Northwest	South	Southeast	Southwest	Texas	Upper_Midwest	Eastern	Western
Canada Goose	H		X	X		X	X	X	X	X	X	X	X	X	X	X		
California Quail	H		X															
Gambel's Quail	H																	
Northern Bobwhite	H			X	X		X					X	X		X			
Killdeer	H			X	X	X	X	X	X	X		X	X	X	X	X		
Laughing Gull	H			X														
Rock Pigeon	LH	yes	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Band-tailed Pigeon	L		X								X			X				
White-winged Dove	L				X									X	X			
Mourning Dove	L		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Inca Dove	L														X			
Common Ground-Dove	L				X							X			X			
Yellow-billed Cuckoo	LH	yes			X													
Belted Kingfisher	H				X													
Red-headed Woodpecker	H			X	X		X	X	X			X	X		X	X		
Acorn Woodpecker	H		X								X							
Red-bellied Woodpecker	H			X	X	X	X	X		X		X	X		X	X		
Downy Woodpecker	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Hairy Woodpecker	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Northern Flicker	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Pileated Woodpecker	H				X						X							
Western Wood-Pewee	H		X						X		X			X				
Eastern Wood-Pewee	H			X		X	X	X		X		X	X		X	X		
Least Flycatcher	H					X					X					X		
Black Phoebe	H		X															
Eastern Phoebe	H			X		X	X	X	X	X		X	X		X	X		
Say's Phoebe	H		X						X		X			X				
Ash-throated Flycatcher	H		X								X			X				
Great Crested Flycatcher	H			X	X	X	X	X		X		X	X		X	X		

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			California	Central	Florida	Mid-Atlantic	Mid-South	Midwest	North_Central	Northeast	Northwest	South	Southeast	Southwest	Texas	Upper_Midwest	Eastern	Western
Cassin's Kingbird	H	yes	X											X				
Western Kingbird	H		X	X						X		X		X	X			
Eastern Kingbird	H			X	X	X	X	X	X	X	X	X	X	X	X	X		
White-eyed Vireo	H			X	X	X	X	X				X	X		X			
Bell's Vireo	H			X											X			
Yellow-throated Vireo	H	yes		X	X		X	X				X	X		X	X		
Plumbeous Vireo	H													X				
Cassin's Vireo	H		X									X						
Hutton's Vireo	H		X									X						
Warbling Vireo	H		X	X		X	X	X	X	X	X			X		X		
Red-eyed Vireo	H			X	X	X	X	X	X	X		X	X		X	X		
Steller's Jay	H		X							X	X			X				
Blue Jay	H			X	X	X	X	X	X	X		X	X		X	X		
Western Scrub-Jay	H		X											X				
Black-billed Magpie	H								X					X				
Yellow-billed Magpie	H		X															
American Crow	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Fish Crow	H				X	X						X	X					
Common Raven	L		X							X				X				
Carolina Chickadee	H	yes		X	X	X	X	X				X	X		X			
Black-capped Chickadee	H	yes		X		X	X	X	X	X	X			X		X		
Mountain Chickadee	H	yes	X									X		X				
Chestnut-backed Chickadee	H										X							
Tufted Titmouse	H	yes		X	X	X	X	X		X		X	X		X	X		
Red-breasted Nuthatch	H									X							X	
White-breasted Nuthatch	H		X	X		X	X	X	X	X	X	X	X	X		X		
Pygmy Nuthatch	H		X								X			X				
Brown-headed Nuthatch	H				X													
Canyon Wren	H		X								X			X				
Carolina Wren	H	yes		X	X	X	X	X		X		X	X		X			
Bewick's Wren	H		X								X			X				
House Wren	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Blue-gray Gnatcatcher	H				X													
Eastern Bluebird	H			X	X	X	X	X	X	X		X	X		X	X		
Western Bluebird	H		X								X			X				
Mountain Bluebird	H		X						X	X				X				
Veery	H	yes				X		X	X	X						X		
Hermit Thrush	H		X							X	X			X				
Wood Thrush	H	yes		X		X	X	X		X		X	X		X	X		
American Robin	H	yes	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Varied Thrush	H										X							
Wrentit	H		X								X							
Gray Catbird	H	call only		X	X	X	X	X	X	X		X	X	X	X	X		
Curve-billed Thrasher	H	yes													X			
Cedar Waxwing	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Olive Warbler	H																	X
Blue-winged Warbler	H																X	
Golden-winged Warbler	H																X	
Tennessee Warbler	H																X	
Orange-crowned Warbler	H		X						X	X				X		X	X	
Nashville Warbler	H															X	X	
Virginia's Warbler	H																	X

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			California	Central	Florida	Mid-Atlantic	Mid-South	Midwest	North_Central	Northeast	Northwest	South	Southeast	Southwest	Texas	Upper_Midwest	Eastern	Western
Lucy's Warbler	H																	X
Northern Parula	H			X	X													X
Yellow Warbler	H		X			X	X	X	X	X	X		X	X			X	X
Chestnut-sided Warbler	H					X					X						X	X
Magnolia Warbler	H																	X
Cape May Warbler	H																	X
Black-throated Blue Warbler	H																	X
Yellow-rumped Warbler	H									X								X
Black-throated Gray Warbler	H											X						X
Black-throated Green Warbler	H																	X
Townsend's Warbler	H												X					X
Hermit Warbler	H												X					X
Blackburnian Warbler	H																	X
Yellow-throated Warbler	H				X													X
Grace's Warbler	H																	X
Pine Warbler	H				X	X	X	X		X		X	X			X	X	X
Prairie Warbler	H			X	X								X					X
Palm Warbler	H																	X
Bay-breasted Warbler	H																	X
Blackpoll Warbler	H																	X
Cerulean Warbler	H																	X
Black-and-white Warbler	H			X		X	X	X		X		X	X		X	X	X	X
American Redstart	H			X		X	X	X	X	X		X	X		X	X	X	X
Prothonotary Warbler	H				X													X
Worm-eating Warbler	H																	X
Swainson's Warbler	H																	X
Ovenbird	H					X	X	X	X	X			X			X	X	X
Northern Waterthrush	H																	X
Louisiana Waterthrush	H																	X
Kentucky Warbler	H																	X
Connecticut Warbler	H																	X
Mourning Warbler	H																	X
MacGillivray's Warbler	H			X						X		X			X			X
Common Yellowthroat	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hooded Warbler	H								X			X	X					X
Wilson's Warbler	H									X								X
Canada Warbler	H																	X
Red-faced Warbler	H																	X
Painted Redstart	H																	X
Hepatic Tanager	H													X				
Summer Tanager	H	yes		X	X		X	X				X	X	X	X			
Scarlet Tanager	H	yes		X		X	X	X		X						X		
Western Tanager	H	yes	X							X		X			X			
Green-tailed Towhee	H		X							X		X			X			
Spotted Towhee	H	yes	X							X		X			X			
Eastern Towhee	H	yes		X	X	X	X	X		X		X	X			X		
California Towhee	H		X															
Chipping Sparrow	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Clay-colored Sparrow	H									X								
Brewer's Sparrow	H									X				X				
Field Sparrow	H			X		X	X	X		X		X	X			X		
Song Sparrow	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X		

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			California	Central	Florida	Mid-Atlantic	Mid-South	Midwest	North_Central	Northeast	Northwest	South	Southeast	Southwest	Texas	Upper_Midwest	Eastern	Western	
White-throated Sparrow	H										X						X		
White-crowned Sparrow	H		X									X							
Dark-eyed Junco	H										X								
Northern Cardinal	H			X	X	X	X	X			X		X	X		X	X		
Rose-breasted Grosbeak	H					X	X	X			X						X		
Black-headed Grosbeak	H		X							X		X			X				
Blue Grosbeak	H		X	X	X		X					X	X	X	X				
Lazuli Bunting	H		X							X		X			X				
Indigo Bunting	H			X	X	X	X	X			X		X	X		X	X		
Painted Bunting	H			X												X			
Dickcissel	H									X									
Red-winged Blackbird	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Brewer's Blackbird	H		X							X		X			X				
Common Grackle	H			X	X	X	X	X	X	X		X	X	X	X	X	X		
Boat-tailed Grackle	H				X							X	X		X				
Brown-headed Cowbird	H	yes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Orchard Oriole	H			X	X	X	X	X	X			X	X		X	X			
Bullock's Oriole	H	yes	X							X		X			X	X			
Baltimore Oriole	H			X		X	X	X	X	X			X		X	X			
Purple Finch	H					X					X						X		
Cassin's Finch	H											X							
House Finch	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
American Goldfinch	H	yes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
House Sparrow	H		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

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