

# Rosetta Stone to the Warblers

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| <b>Ovenbird</b><br><i>(Seiurus aurocapilla)</i> | <b>Worm-eating Warbler</b><br><i>(Helmitheros vermivorum)</i> | <b>Louisiana Waterthrush</b><br><i>(Parkesia motacilla)</i> | <b>Northern Waterthrush</b><br><i>(Parkesia noveboracensis)</i> | <b>Golden-winged Warbler</b><br><i>(Vermivora chrysoptera)</i> | <b>Blue-winged Warbler</b><br><i>(Vermivora cyanoptera)</i> | <b>Black-and-white Warbler</b><br><i>(Mniotilta varia)</i> | <b>Prothonotary Warbler</b><br><i>(Protonotaria citrea)</i> | <b>Swainson's Warbler</b><br><i>(Limnothlypis swainsonii)</i> | <b>Tennessee Warbler</b><br><i>(Oreothlypis peregrina)</i> |

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| <b>Orange-crowned Warbler</b><br><i>(Oreothlypis celata)</i> | <b>Colima Warbler</b><br><i>(Oreothlypis crissalis)</i> | <b>Lucy's Warbler</b><br><i>(Oreothlypis luciae)</i> | <b>Nashville Warbler</b><br><i>(Oreothlypis ruficapilla)</i> | <b>Virginia's Warbler</b><br><i>(Oreothlypis virginiae)</i> | <b>Connecticut Warbler</b><br><i>(Oporornis agilis)</i> | <b>MacGillivray's Warbler</b><br><i>(Geothlypis tolmiei)</i> | <b>Mourning Warbler</b><br><i>(Geothlypis philadelphia)</i> | <b>Kentucky Warbler</b><br><i>(Geothlypis formosa)</i> | <b>Common Yellowthroat</b><br><i>(Geothlypis trichas)</i> |

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| <b>Hooded Warbler</b><br><i>(Setophaga citrina)</i> | <b>American Redstart</b><br><i>(Setophaga ruticilla)</i> | <b>Kirtland's Warbler</b><br><i>(Setophaga kirtlandii)</i> | <b>Cape May Warbler</b><br><i>(Setophaga tigrina)</i> | <b>Cerulean Warbler</b><br><i>(Setophaga cerulea)</i> | <b>Northern Parula</b><br><i>(Setophaga americana)</i> | <b>Magnolia Warbler</b><br><i>(Setophaga magnolia)</i> | <b>Bay-breasted Warbler</b><br><i>(Setophaga castanea)</i> | <b>Blackburnian Warbler</b><br><i>(Setophaga fusca)</i> | <b>Yellow Warbler</b><br><i>(Setophaga petechia)</i> |

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| <b>Chestnut-sided Warbler</b><br><i>(Setophaga pensylvanica)</i> | <b>Blackpoll Warbler</b><br><i>(Setophaga striata)</i> | <b>Black-throated Blue Warbler</b><br><i>(Setophaga caerulescens)</i> | <b>Palm Warbler</b><br><i>(Setophaga palmarum)</i> | <b>Pine Warbler</b><br><i>(Setophaga pinus)</i> | <b>Yellow-rumped Warbler</b><br><i>(Setophaga coronata)</i> | <b>Yellow-throated Warbler</b><br><i>(Setophaga dominica)</i> | <b>Prairie Warbler</b><br><i>(Setophaga discolor)</i> | <b>Grace's Warbler</b><br><i>(Setophaga graciae)</i> | <b>Black-throated Gray Warbler</b><br><i>(Setophaga nigrescens)</i> |

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| <b>Townsend's Warbler</b><br><i>(Setophaga townsendi)</i> | <b>Hermit Warbler</b><br><i>(Setophaga occidentalis)</i> | <b>Golden-cheeked Warbler</b><br><i>(Setophaga chrysoparia)</i> | <b>Black-throated Green Warbler</b><br><i>(Setophaga virens)</i> | <b>Canada Warbler</b><br><i>(Cardellina canadensis)</i> | <b>Wilson's Warbler</b><br><i>(Cardellina pusilla)</i> | <b>Red-faced Warbler</b><br><i>(Cardellina rubrifrons)</i> | <b>Painted Redstart</b><br><i>(Myioborus pictus)</i> |

Spectrograms and photographs of 48 species of North American migrant warblers in phylogenetic sequence.

Scale lines = 7 kHz, 50 msec

The Rosetta Stone to the Warblers was compiled by Andrew Farnsworth, Cornell Lab of Ornithology, in collaboration with Michael Lanzone, Cellular Tracking Technologies, Michael O'Brien, and William R. Evans, Oldbird, Inc. Some calls courtesy of Evans, W. R. and O'Brien, M. 2002. Flight calls of migratory birds: eastern North American landbirds. CD-ROM. Oldbird, Inc., Ithaca, NY. Taxonomy follows Lovette et al. 2010. *Molecular Phylogenetics and Evolution* 57:753-770.