

Grzimek's Animal Life Encyclopedia



Second Edition
Volume 9 • Birds II



Michael Hutchins, Series Editor,
In association with the American Zoo and Aquarium Association

Jerome A. Jackson and Walter J. Bock, Advisory Editors

Contents

Foreword	viii	Family: Tropicbirds	187
How to use this book	xi	Family: Frigatebirds	193
Advisory boards	xiii	Family: Cormorants and anhingas	201
Contributing writers	xv	Family: Boobies and gannets	211
Contributing illustrators	xviii	Family: Pelicans	225
Volume 8: Birds I		Order CICONIIFORMES	
What is a bird?	3	Hérons, storks, spoonbills, ibis, and New World vultures	233
Birds and humans	19	Family: Herons and bitterns	239
Avian migration and navigation	29	Family: Hammerheads	261
Avian song	37	Family: Storks	265
Avian flight	45	Family: New World vultures	275
Order STRUTHIONIFORMES		Family: Shoebills	287
Tinamous and ratites	53	Family: Ibises and spoonbills	291
Family: Tinamous	57	Order PHOENICOPTERIFORMES	
Family: Rheas	69	Flamingos	
Family: Cassowaries	75	Family: Flamingos	303
Family: Emus	83	Order FALCONIFORMES	
Family: Kiwis	89	Diurnal birds of prey	313
Family: Moas	95	Family: Hawks and eagles	317
Family: Ostriches	99	Family: Secretary birds	343
Family: Elephant birds	103	Family: Falcons and caracaras	347
Order PROCELLARIIFORMES		Order ANSERIFORMES	
Tubenosed seabirds	107	Ducks, geese, swans, and screamers	363
Family: Albatrosses	113	Family: Ducks, geese, and swans	369
Family: Shearwaters, petrels, and fulmars	123	Family: Screamers	393
Family: Storm-petrels	135	Order GALLIFORMES	
Family: Diving-petrels	143	Chicken-like birds	399
Order SPHENISCIFORMES		Family: Moundbuilders	403
Penguins		Family: Curassows, guans, and chachalacas	413
Family: Penguins	147	Family: Guineafowl	425
Order GAVIIFORMES		Family: Fowls and pheasants	433
Loons		Family: New World quails	455
Family: Loons	159	Order OPISTHOCOMIFORMES	
Order PODICIPEDIFORMES		Hoatzins	
Grebes		Family: Hoatzins	465
Family: Grebes	169		
Order PELECANIFORMES			
Pelicans and cormorants	183		

For further reading 469
 Organizations 474
 Contributors to the first edition 479
 Glossary 486
 Aves species list 497
 Geologic time scale 560
 Index 561

Volume 9: Birds II

Order GRUIFORMES

Cranes, rails, and relatives 1
 Family: Mesites and roatelos 5
 Family: Buttonquails 11
 Family: Cranes 23
 Family: Limpkins 37
 Family: Kagus 41
 Family: Rails, coots, and moorhens 45
 Family: Sungrebes 69
 Family: Sunbitterns 73
 Family: Trumpeters 77
 Family: Seriemas 85
 Family: Bustards 91

Order CHARADRIIFORMES

Gulls, terns, plovers, and other shorebirds 101
 Family: Jacanas 107
 Family: Painted snipes 115
 Family: Crab plovers 121
 Family: Oystercatchers 125
 Family: Stilts and avocets 133
 Family: Thick-knees 143
 Family: Pratincoles and coursers 151
 Family: Plovers and lapwings 161
 Family: Sandpipers 175
 Family: Seedsnipes 189
 Family: Sheathbills 197
 Family: Gulls and terns 203
 Family: Auks, puffins, and murrens 219

Order PTEROCLIFORMES

Sandgrouse
 Family: Sandgrouse 231

Order COLUMBIFORMES

Pigeons, doves, and dodos 241
 Family: Pigeons and doves 247
 Family: Dodos and solitaires 269

Order PSITTACIFORMES

Parrots
 Family: Parrots 275

Order MUSOPHAGIFORMES

Turacos and plantain eaters
 Family: Turacos and plantain eaters 299

Order CUCULIFORMES

Cuckoos, anis, and roadrunners
 Family: Cuckoos, anis, and roadrunners 311

Order STRIGIFORMES

Owls 331
 Family: Barn owls 335
 Family: Owls 345

Order CAPRIMULGIFORMES

Nightjars 367
 Family: Oilbirds 373
 Family: Frogmouths 377
 Family: Owlet-nightjars 387
 Family: Potoos 395
 Family: Nightjars 401

Order APODIFORMES

Swifts and hummingbirds 415
 Family: Swifts 421
 Family: Tree swifts 433
 Family: Hummingbirds 437

Order COLIIFORMES

Mousebirds
 Family: Mousebirds 469

Order TROGONIFORMES

Trogons
 Family: Trogons 477

For further reading 487
 Organizations 492
 Contributors to the first edition 497
 Glossary 504
 Aves species list 515
 Geologic time scale 578
 Index 579

Volume 10: Birds III

Order CORACIIFORMES

Kingfishers, todies, hoopoes, and relatives 1
 Family: Kingfishers 5
 Family: Todies 25
 Family: Motmots 31
 Family: Bee-eaters 39
 Family: Rollers 51
 Family: Hoopoes 61
 Family: Woodhoopoes 65
 Family: Hornbills 71

Order PICIFORMES

Woodpeckers and relatives 85
 Family: Jacamars 91
 Family: Puffbirds 101
 Family: Barbets 113
 Family: Toucans 125
 Family: Honeyguides 137
 Family: Woodpeckers, wrynecks, and piculets 147

Order PASSERIFORMES

Perching birds 169
 Family: Broadbills 177
 Family: False sunbirds and asities 187

Family: Pittas	193	Family: Quail thrushes and whipbirds	75
Family: New Zealand wrens	203	Family: Fantails	83
Family: Ovenbirds	209	Family: Monarch flycatchers	97
Family: Woodcreepers	229	Family: Australian robins	105
Family: Ant thrushes	239	Family: Whistlers	115
Family: Tapaculos	257	Family: Pseudo babbler	127
Family: Tyrant flycatchers	269	Family: Australian creepers	133
Family: Sharpbills	291	Family: Long-tailed titniece	141
Family: Manakins	295	Family: Penduline titniece	147
Family: Cotingas	305	Family: Titniece and chickadees	155
Family: Plantcutters	325	Family: Nuthatches and wall creepers	167
Family: Lyrebirds	329	Family: Treecreepers	177
Family: Scrub-birds	337	Family: Philippine creepers	183
Family: Larks	341	Family: Flowerpeckers	189
Family: Swallows	357	Family: Pardalotes	201
Family: Pipits and wagtails	371	Family: Sunbirds	207
Family: Cuckoo-shrikes	385	Family: White-eyes	227
Family: Bulbuls	395	Family: Australian honeyeaters	235
Family: Fairy bluebirds and leafbirds	415	Family: Vireos and peppershrikes	255
Family: Shrikes	425	Family: New World finches	263
Family: Vanga shrikes	439	Family: New World warblers	285
Family: Waxwings and silky flycatchers	447	Family: New World blackbirds and orioles	301
Family: Palmchats	455	Family: Finches	323
Family: Hedge sparrows	459	Family: Hawaiian honeycreepers	341
Family: Thrashers and mockingbirds	465	Family: Waxbills and grassfinches	353
Family: Dippers	475	Family: Weavers	375
Family: Thrushes and chats	483	Family: Sparrows	397
Family: Babblers	505	Family: Starlings and mynas	407
Family: Wrens	525	Family: Old World orioles and figbirds	427
For further reading	539	Family: Drongos	437
Organizations	544	Family: New Zealand wattle birds	447
Contributors to the first edition	549	Family: Mudnest builders	453
Glossary	556	Family: Woodswallows	459
Aves species list	567	Family: Magpie-shrikes	467
Geologic time scale	630	Family: Bowerbirds	477
Index	631	Family: Birds of paradise	489
		Family: Crows and jays	503
Volume 11: Birds IV		For further reading	525
Family: Old World warblers	1	Organizations	530
Family: Old World flycatchers	25	Contributors to the first edition	535
Family: Australian fairy-wrens	45	Glossary	542
Family: Australian warblers	55	Aves species list	553
Family: Australian chats	65	Geologic time scale	616
Family: Logrunners and chowchillas	69	Index	617