

## CLEMENTS 2016 UPDATE

**Charles E. Braun, BU1364 & Jack R. Congrove, BU1424**

The Clements 2016 taxonomic update was released by Cornell University in August. Changes ranged from adding and deleting orders to minor typographic corrections. The table below shows the revised order of the 237 extant families accepted by Clements Checklist. The names of orders are in **BOLD CAPITAL** lettering and changes are noted in **bold blue** font. An additional extinct family is listed in brackets. The listing also provides the quantity of families in each order (in parentheses, after the name of each order), and the number of species in each family (in parentheses, after the name of each family).

One new order is added (Opisthocomiformes), but Apodiformes is merged with Caprimulgiformes. Therefore, the total number of orders remains unchanged, at 39 extant orders. Two families are lost: Dromaiidae (Emus) merged into Casuariidae (Cassowaries), and Pelecanoididae (Diving-Petrels) is merged into Procellariidae (Shearwaters and Petrels). On the other hand, five new families are added this year: Eulacestomatidae (Ploughbill), Falcunculidae (Shrike-tit), Rhagologidae (Mottled Berryhunter), Ifridae (Ifrita), and Melampittidae (Melampittas).

No.	Family	Members	No.	Family	Members
	<b>STRUTHIONIFORMES</b> (1)			<b>CICONIIFORMES</b> (1)	
1	Struthionidae	Ostrich (2)	22	Ciconiidae	Storks (19)
	<b>RHEIFORMES</b> (1)			<b>SULIFORMES</b> (4)	
2	Rheidae	Rheas (2)	23	Fregatidae	Frigatebirds (5)
	<b>TINAMIFORMES</b> (1)		24	Sulidae	Boobies & Gannets (10)
3	Tinamidae	Tinamous (47)	25	Phalacrocoracidae	Cormorants & Shags (40)
	<b>CASUARIIFORMES</b> (2)		26	Anhingidae	Anhingas (4)
4	Casuariidae	Cassowaries & Emu (4)		<b>PELECANIFORMES</b> (5)	
	<b>APTERYGIFORMES</b> (1)		27	Pelecanidae	Pelicans (8)
5	Apterygidae	Kiwis (5)	28	Balaenicipitidae	Shoebill (1)
	<b>ANSERIFORMES</b> (3)		29	Scopidae	Hamerkop (1)
6	Anhimidae	Screamers (3)	30	Ardeidae	Herons, Egrets, & Bitterns (64)
7	Anseranatidae	Magpie Goose (1)	31	Threskiornithidae	Ibises & Spoonbills (34)
8	Anatidae	Ducks, Geese, & Waterfowl (164)		<b>ACCIPITRIFORMES</b> (4)	
	<b>GALLIFORMES</b> (5)		32	Cathartidae	New World Vultures (7)
9	Megapodiidae	Megapodes (22)	33	Sagittariidae	Secretary-bird (1)
10	Cracidae	Guans, Chachalacas, & Curassows (54)	34	Pandionidae	Osprey (1)
11	Numididae	Guineafowl (6)	35	Accipitridae	Hawks, Eagles, & Kites (246)
12	Odontophoridae	New World Quail (33)		<b>OTIDIFORMES</b> (1)	
13	Phasianidae	Pheasants, Grouse, & Allies (174)	36	Otididae	Bustards (26)
	<b>GAVIIFORMES</b> (1)			<b>MESITORNITHIFORMES</b> (1)	
14	Gaviidae	Loons (5)	37	Mesitornithidae	Mesites (3)
	<b>PODICIPEDIFORMES</b> (1)			<b>EURYPYGIFORMES</b> (2)	
15	Podicipedidae	Grebes (22)	38	Rhynochetidae	Kagu (1)
	<b>PHOENICOPTERIFORMES</b> (1)		39		Eurypygidae
16	Phoenicopteridae	Flamingos (6)		<b>GRUIFORMES</b> (6)	
	<b>SPHENISCIFORMES</b> (1)		40	Rallidae	Rails, Gallinules, & Coots (144)
17	Spheniscidae	Penguins (18)	41	Sarothruridae	Flufftails (12)
	<b>PROCELLARIIFORMES</b> (4)		42	Heliornithidae	Finfoots (3)
18	Diomedeidae	Albatrosses (15)	43	Aramidae	Limpkin (1)
19	Procellariidae	Shearwaters & Petrels (92)	44	Psophiidae	Trumpeters (3)
20	Hydrobatidae	Storm-Petrels (27)	45	Gruidae	Cranes (15)
	<b>PHAETHONTIFORMES</b> (1)			<b>CHARADRIIFORMES</b> (19)	
21	Phaethontidae	Tropicbirds (3)	46	Chionidae	Sheathbills (2)

No.	Family	Members	No.	Family	Members
	<b>CHARADRIIFORMES</b> (continued)			<b>BUCEROTIFORMES</b> (continued)	
47	Pluvianellidae	Magellanic Plover (1)	84	Phoeniculidae	Woodhoopoes & Scimitar-bills (8)
48	Burhinidae	Thick-knees (10)	85	Bucorvidae	Ground-Hornbills (2)
49	Pluvianidae	Egyptian Plover (1)	86	Bucerotidae	Hornbills (59)
50	Recurvirostridae	Stilts & Avocets (9)		<b>CORACIIFORMES</b> (6)	
51	Ibidorhynchidae	Ibisbill (1)	87	Todidae	Todies (5)
52	Haematopodidae	Oystercatchers (12)	88	Momotidae	Motmots (13)
53	Charadriidae	Plovers & Lapwings (67)	89	Alcedinidae	Kingfishers (117)
54	Pedionomidae	Plains-wanderer (1)	90	Meropidae	Bee-eaters (28)
55	Thinocoridae	Seedsnipes (4)	91	Coraciidae	Rollers (12)
56	Rostratulidae	Painted-Snipes (3)	92	Brachypteraciidae	Ground-Rollers (5)
57	Jacanidae	Jacanas (8)		<b>GALBULIFORMES</b> (2)	
58	Scolopacidae	Sandpipers & Allies (97)	93	Bucconidae	Puffbirds (36)
59	Turnicidae	Buttonquail (16)	94	Galbulidae	Jacamars (18)
60	Dromadidae	Crab Plover (1)		<b>PICIFORMES</b> (7)	
61	Glareolidae	Pratincoles & Coursers (17)	95	Lybiidae	African Barbets (42)
62	Stercorariidae	Skuas & Jaegers (7)	96	Megalaimidae	Asian Barbets (34)
63	Alcidae	Auks, Murres, & Puffins (25)	97	Capitonidae	New World Barbets (14)
64	Laridae	Gulls, Terns, & Skimmers (99)	98	Semnornithidae	Toucan-Barbets (2)
	<b>PTEROCLIFORMES</b> (1)		99	Ramphastidae	Toucans (35)
65	Pteroclididae	Sandgrouse (16)	100	Indicatoridae	Honeyguides (17)
	<b>COLUMBIFORMES</b> (1)		101	Picidae	Woodpeckers (230)
66	Columbidae	Pigeons & Doves (338)		<b>CARIAMIFORMES</b> (1)	
	<b>OPISTHOCOMIFORMES</b> (1) (new)		102	Cariamidae	Seriemas (2)
67	Opisthocomidae	Hoatzin (1)		<b>FALCONIFORMES</b> (1)	
	<b>CUCULIFORMES</b> (2)		103	Falconidae	Falcons & Caracaras (65)
66	Musophagidae	Turacos (23)			
69	Cuculidae	Cuckoos (146)		<b>PSITTACIFORMES</b> (4)	
	<b>STRIGIFORMES</b> (2)		104	Strigopidae	New Zealand Parrots (4)
70	Tytonidae	Barn-Owls (18)	105	Cacatuidae	Cockatoos (21)
71	Strigidae	Owls (207)	106	Psittaculidae	Old World Parrots (179)
	<b>CAPRIMULGIFORMES</b> (8)		107	Psittacidae	New World & African Parrots (168)
72	Podargidae	Frogmouths (15)		<b>PASSERIFORMES</b> (131)	
73	Caprimulgidae	Nightjars & Allies (98)	108	Acanthisittidae	New Zealand Wrens (4)
74	Nyctibiidae	Potoos (7)	109	Calyptomenidae	African & Green Broadbills (6)
75	Steatornithidae	Oilbird (1)	110	Eurylaimidae	Asian & Grauer's Broadbills (9)
76	Aegothelidae	Owlet-Nightjars (10)	111	Sapayoidae	Sapayoa (1)
77	Apodidae	Swifts (105)	112	Philepittidae	Asities (4)
78	Hemiprocnidae	Treeswifts (4)	113	Pittidae	Pittas (49)
79	Trochilidae	Hummingbirds (343)	114	Thamnophilidae	Typical Antbirds (234)
	<b>COLIIFORMES</b> (1)		115	Melanopareidae	Crescentchests (4)
80	Coliidae	Mousebirds (6)	116	Conopophagidae	Gnateaters (11)
	<b>LEPTOSOMIFORMES</b> (1)		117	Grallariidae	Antpittas (53)
81	Leptosomidae	Cuckoo-Roller (1)	118	Rhinocryptidae	Tapaculos (59)
	<b>TROGONIFORMES</b> (1)		119	Formicariidae	Antthrushes (11)
82	Trogonidae	Trogons (44)	120	Furnariidae	Ovenbirds & Woodcreepers (303)
	<b>BUCEROTIFORMES</b> (4)		121	Tyrannidae	Tyrant Flycatchers (419)
83	Upupidae	Hoopoes (2)	122	Oxyruncidae	Sharpbill (1)

No.	Family	Members	No.	Family	Members
	<b>PASSERIFORMES</b> (continued)			<b>PASSERIFORMES</b> (continued)	
123	Cotingidae	Cotingas (66)	170	<b>Melampittidae</b>	<b>Melampittas (2)</b>
124	Pipridae	Manakins (54)	171	Petroicidae	Australasian Robins (47)
125	Tityridae	Tityras & Allies (33)	172	Picathartidae	Rockfowl (2)
126	Menuridae	Lyrebirds (2)	173	Chaetopidae	Rockjumpers (2)
127	Atrichornithidae	Scrub-birds (2)	174	Eupetidae	Rail-babbler (1)
128	Ptilonorhynchidae	Bowerbirds ( <b>26</b> )	175	Panuridae	Bearded Reedling (1)
129	Climacteridae	Australasian Treecreepers (7)	176	Nicatoridae	Nicators (3)
130	Maluridae	Fairywrens ( <b>32</b> )	177	Alaudidae	Larks ( <b>97</b> )
131	Meliphagidae	Honeyeaters (184)	178	Hirundinidae	Swallows (86)
132	Dasyornithidae	Bristlebirds (3)	179	Stenostiridae	Fairy Flycatchers (9)
133	Pardalotidae	Pardalotes (4)	180	Paridae	Tits, Chickadees & Titmice ( <b>63</b> )
134	Acanthizidae	Thornbills & Allies (64)	181	Remizidae	Penduline-Tits (11)
135	Pomatostomidae	Pseudo-Babblers (5)	182	Aegithalidae	Long-tailed Tits (11)
136	Orthonychidae	Logrunners (3)	183	Sittidae	Nuthatches (27)
137	Cnemophilidae	Satinbirds (3)	184	Tichodromidae	Wallcreeper (1)
138	Melanocharitidae	Berrypeckers & Longbills (10)	185	Certhiidae	Treecreepers (11)
139	Mohouidae	Whiteheads (3)	186	Troglodytidae	Wrens ( <b>85</b> )
140	Paramythiidae	Tit & Crested Berrypeckers (2)	187	Poliotilidae	Gnatcatchers (15)
141	Callaeidae	Wattlebirds (5)	188	Cinclidae	Dippers (5)
142	Notiomystidae	Stitchbird (1)	189	Pycnonotidae	Bulbuls (141)
143	Psophodidae	Whipbirds & Wedgebills (5)	190	Regulidae	Kinglets (6)
144	Cinclosomatidae	Quail-thrushes & Jewel-babblers (11)	191	Pnoepygidae	Cupwings (5)
145	Platysteiridae	Wattle-eyes & Batises (30)	192	Macrosphenidae	African Warblers (21)
146	Vangidae	Vangas (39)	193	Cettiidae	Bush-Warblers & Allies (36)
147	Malaconotidae	Bushshrikes & Allies (49)	194	Phylloscopidae	Leaf-Warblers (76)
148	Machaerirhynchidae	Boatbills (2)	195	Acrocephalidae	Reed-Warblers & Allies (61)
149	Artamidae	Woodswallows (11)	196	Locustellidae	Grassbirds & Allies (61)
150	Cracticidae	Bellmagpies & Allies (13)	197	Donacobiidae	Donacobius (1)
151	Pityriaseidae	Bristlehead (1)	198	Bernieridae	Malagasy Warblers (11)
152	Aegithinidae	Ioras (4)	199	Cisticolidae	Cisticolas & Allies (147)
153	Campephagidae	Cuckooshrikes (87)	200	Sylviidae	Sylviid Warblers (33)
154	Neosittidae	Sittellas (2)	201	Paradoxornithidae	Parrotbills, Wrenit, & Allies (36)
155	<b>Eulacestomatidae</b>	<b>Ploughbill (1) (new)</b>	202	Zosteropidae	Yuhinas, White-eyes, & Allies (129)
156	<b>Falcunculidae</b>	<b>Shrike-tit (1) (new)</b>	203	Timaliidae	Tree- & Scimitar-Babblers & Allies (52)
157	Pachycephalidae	Whistlers & Allies ( <b>56</b> )	204	Pellorneidae	Ground Babblers & Allies (56)
158	<b>Rhagologidae</b>	<b>Mottled Berryhunter (1)</b>	205	Leiothrichidae	Laughingthrushes & Allies (144)
159	Oreoicidae	Australo-Papuan Bellbirds (3)	206	Promeropidae	Sugarbirds (5)
160	Laniidae	Shrikes (32)	207	Irenidae	Fairy-bluebirds (2)
161	Vireonidae	Vireos, Shrike-Babblers, & Erpornis (62)	208	Hylotiidae	Hyliotas (4)
162	Oriolidae	Old World Orioles (35)	209	Muscicapidae	Old World Flycatchers (315)
163	Dicruridae	Drongos (25)	210	Turdidae	Thrushes & Allies ( <b>168</b> )
164	Rhipiduridae	Fantails (50)	211	Mimidae	Mockingbirds & Thrashers (34)
165	<b>Ifridae</b>	<b>Ifrita (1)</b>	212	Sturnidae	Starlings (122)
166	Monarchidae	Monarch Flycatchers (100)	213	Buphagidae	Oxpeckers (2)
167	Corvidae	Crows, Jays, & Magpies ( <b>125</b> )	214	Chloropseidae	Leafbirds (11)
168	Corcoracidae	White-winged Chough & Apostlebird (2)	215	Dicaeidae	Flowerpeckers (47)
169	Paradisaeidae	Birds-of-paradise ( <b>39</b> )	216	Nectariniidae	Sunbirds & Spiderhunters (140)

No.	Family	Members	No.	Family	Members
	<b>PASSERIFORMES</b> (continued)			<b>PASSERIFORMES</b> (continued)	
217	Prunellidae	Accentors (13)	228	Calcariidae	Longspurs & Snow Buntings (6)
218	Motacillidae	Wagtails & Pipits (66)	229	Parulidae	New World Warblers ( <b>116</b> )
219	Urocynchramidae	Przevalski's <b>Pinktail</b> (1)	230	Thraupidae	Tanagers & Allies (386)
220	Elachuridae	Spotted Elachura (1)	231	Emberizidae	Buntings & New World Sparrows (172)
221	Bombycillidae	Waxwings (3)	232	Cardinalidae	Cardinals & Allies (48)
222	[Mohoidae]	Hawaiian Honeyeaters (5) [extinct]	233	Icteridae	Troupials & Allies (105)
223	Ptiligonatidae	Silky-flycatchers (4)	234	Fringillidae	Finches, Euphonias, & Allies (224)
224	Duidae	Palmchat (1)	235	Passeridae	Old World Sparrows (42)
225	Hylocitridae	Hylocitrea (1)	236	Ploceidae	Weavers & Allies (116)
226	Hypocoliidae	Hypocolius (1)	237	Estrildidae	Waxbills & Allies (140)
227	Peucedramidae	Olive Warbler (1)	238	Viduidae	Indigobirds (20)

**Reference:** Clements, J. F., T. S. Schulenberg, M. J. Iliff, D. Roberson, T. A. Fredericks, B. L. Sullivan, and C. L. Wood. 2016. *The eBird/Clements checklist of birds of the world: Version 2016*. Downloaded from <http://www.birds.cornell.edu/clementschecklist/download/>

### Changes Affecting Birds on Stamps

The Emerald Dove has been split into two species: Asian Emerald Dove, *Chalcophaga indica*, with issues from Bangladesh, Christmas Island, and Malaysia, and Pacific Emerald Dove, *Chalcophaga longirostris*, with issues from Guinea-Bissau, New Caledonia, and Vanuatu.

The Crimson-crowned Fruit-Dove has been split into three species, two of which are on stamps: Crimson-crowned Fruit-Dove, *Ptilinopus porphyraceus*, with issues from Fiji, Micronesia, and Niue, and Purple-capped Fruit-Dove, *Ptilinopus ponapensis*, with issues from Marshall Islands.

Change Yellowbill to Blue Malkoha.

Change Green Violetear to Lesser Violetear.

The Blue-crested Flycatcher has been split into two species: Azure-crested Flycatcher, *Myiagra azureocapilla*, with issues from Fiji, and Chestnut-throated Flycatcher, *Myiagra castaneigularis*, with issues from Aitutaki.

The Barbary Falcon is lumped with Peregrine Falcon. The Port Lincoln Parrot is lumped with Mallee Ringneck