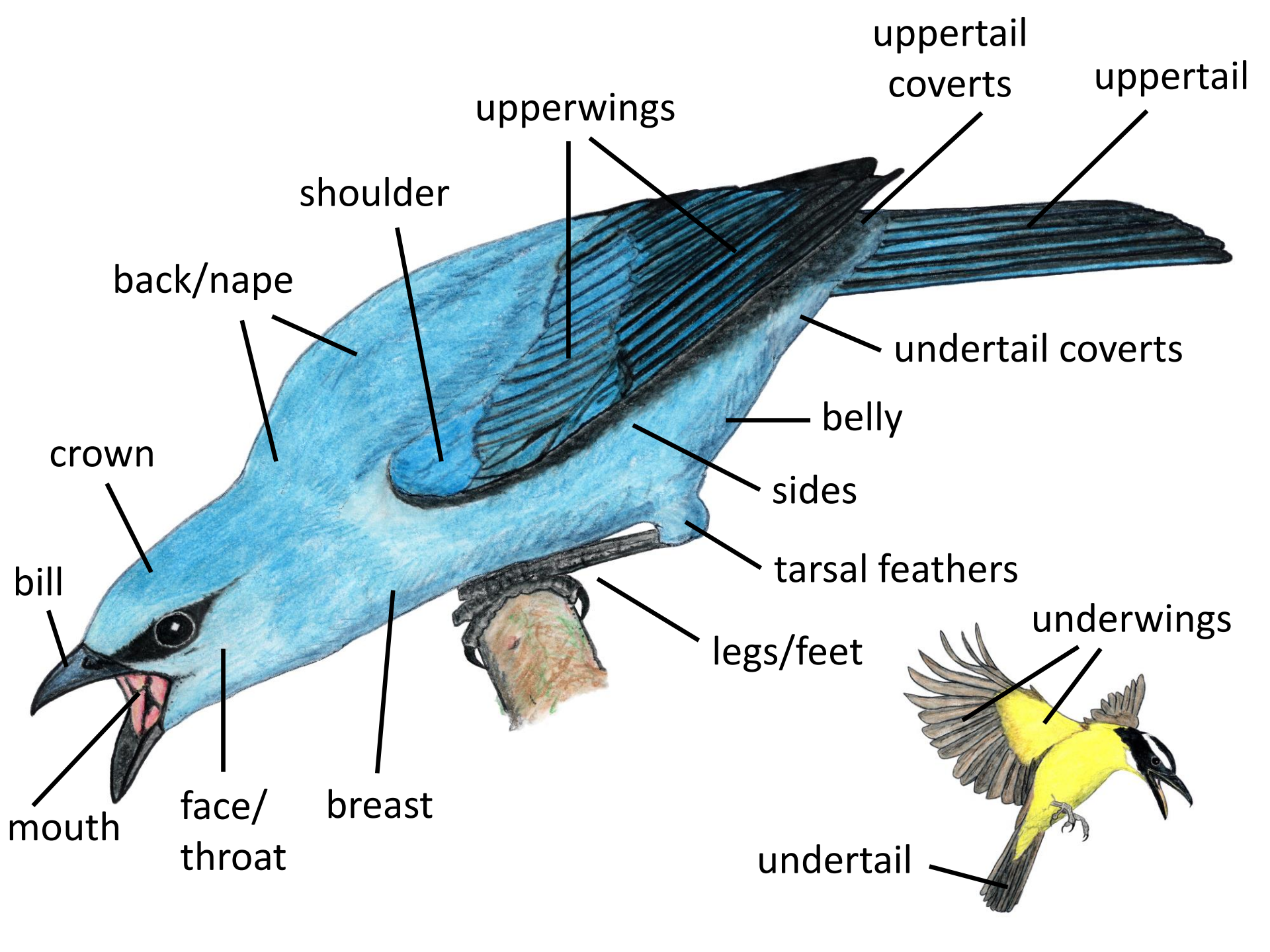
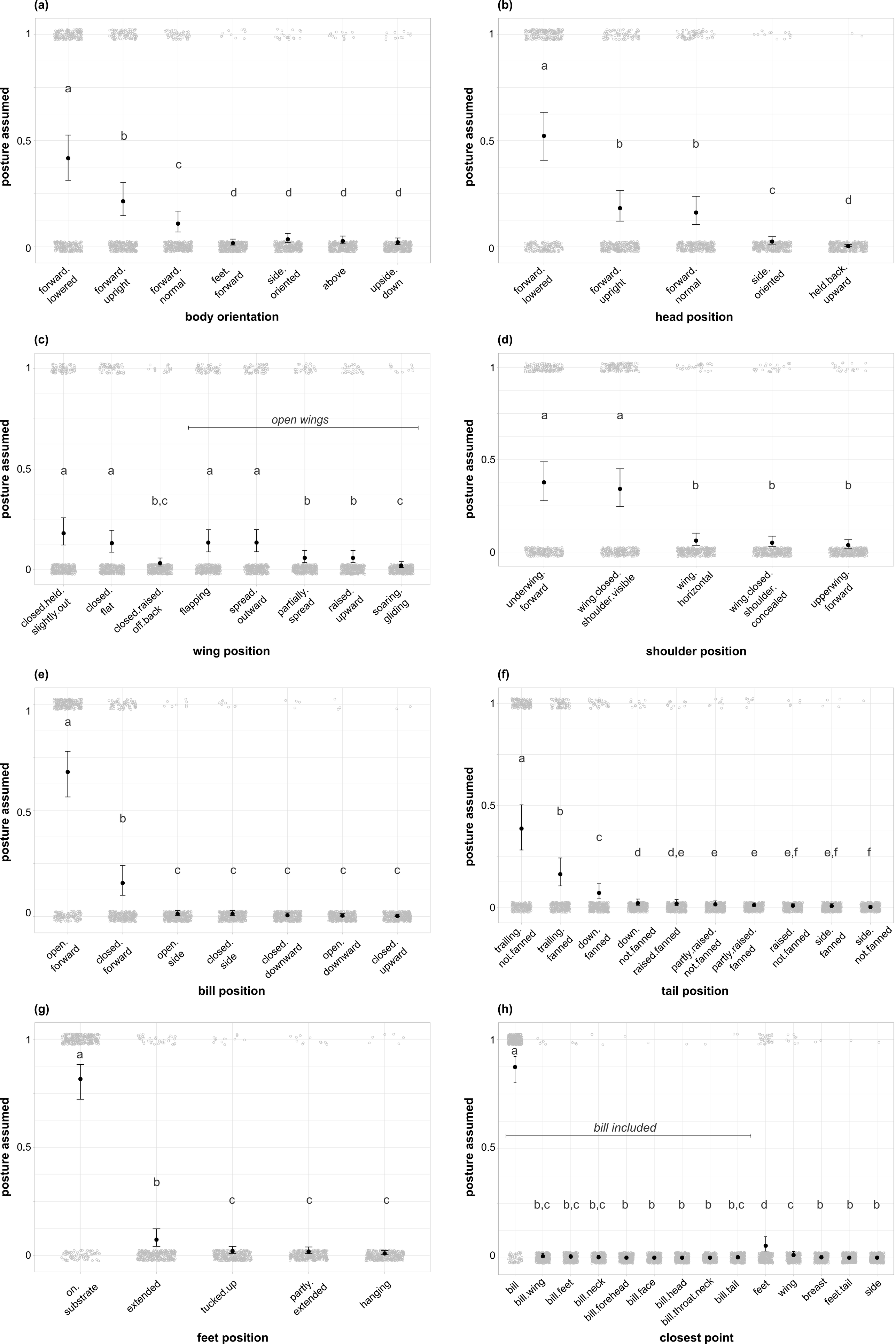
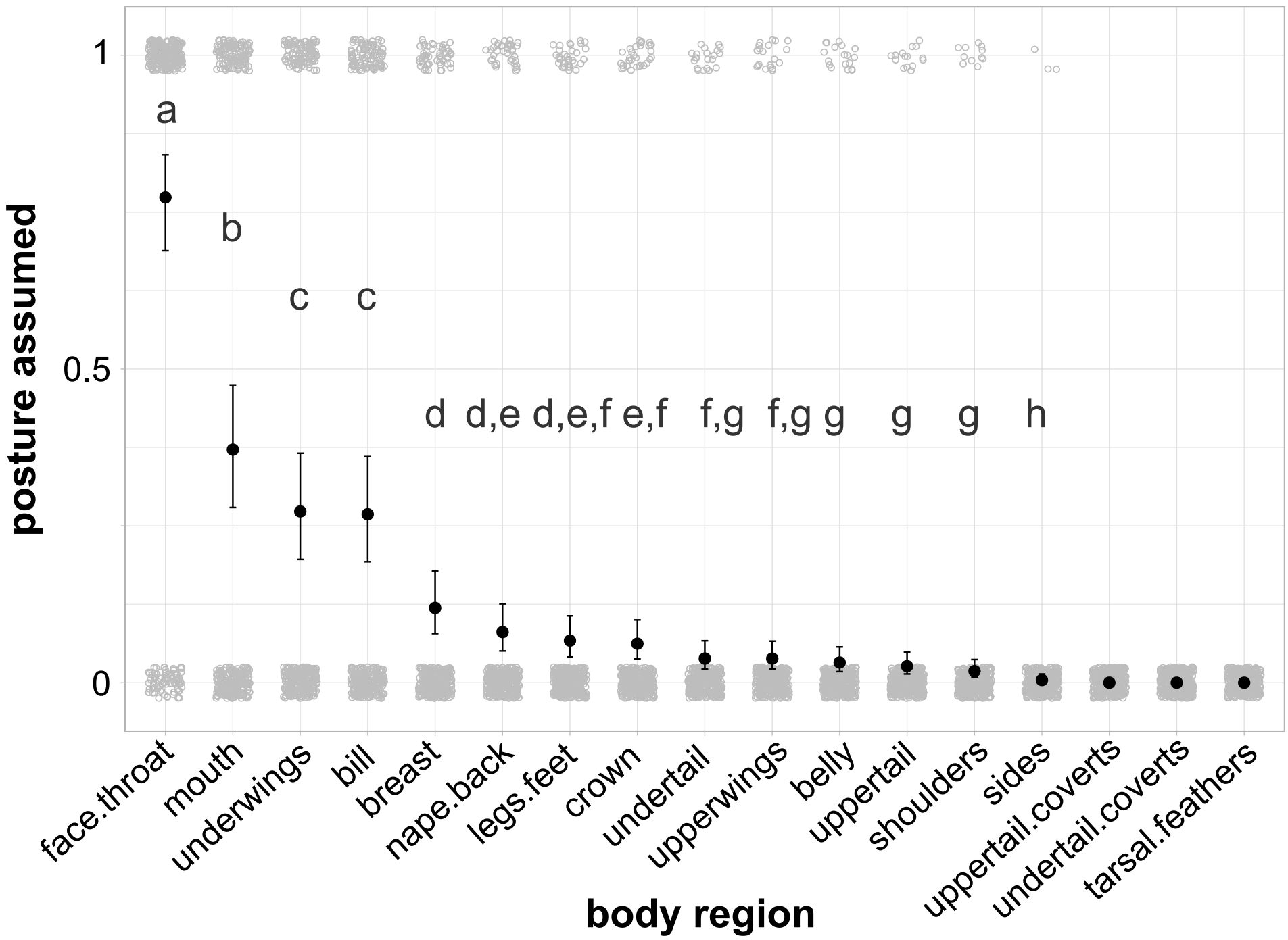
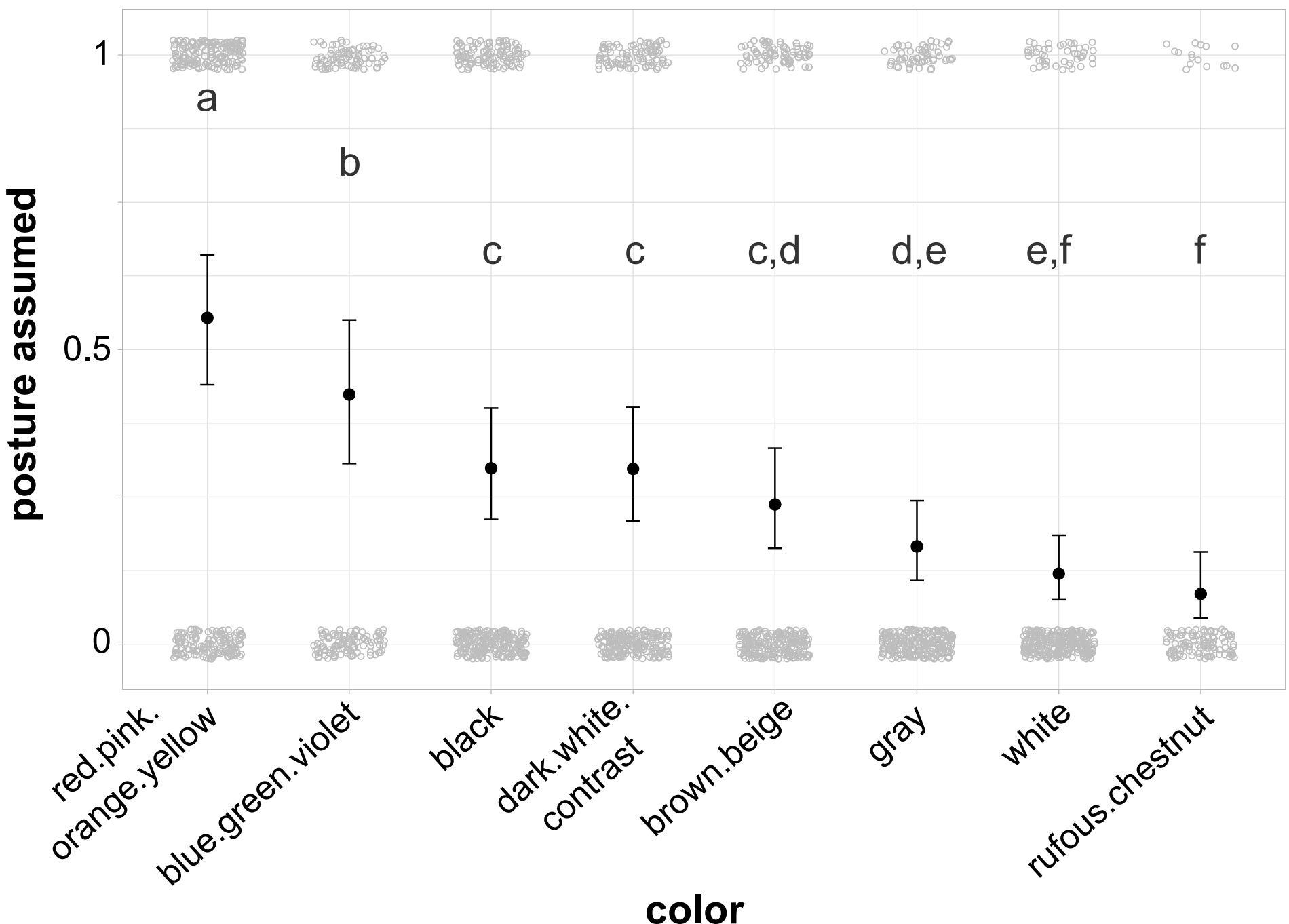

uppertail coverts
uppertail
upperwings
shoulder
back/nape
undertail coverts
belly
crown
sides
tarsal feathers
bill
legs/feet
underwings
mouth
face/ throat
breast
undertail

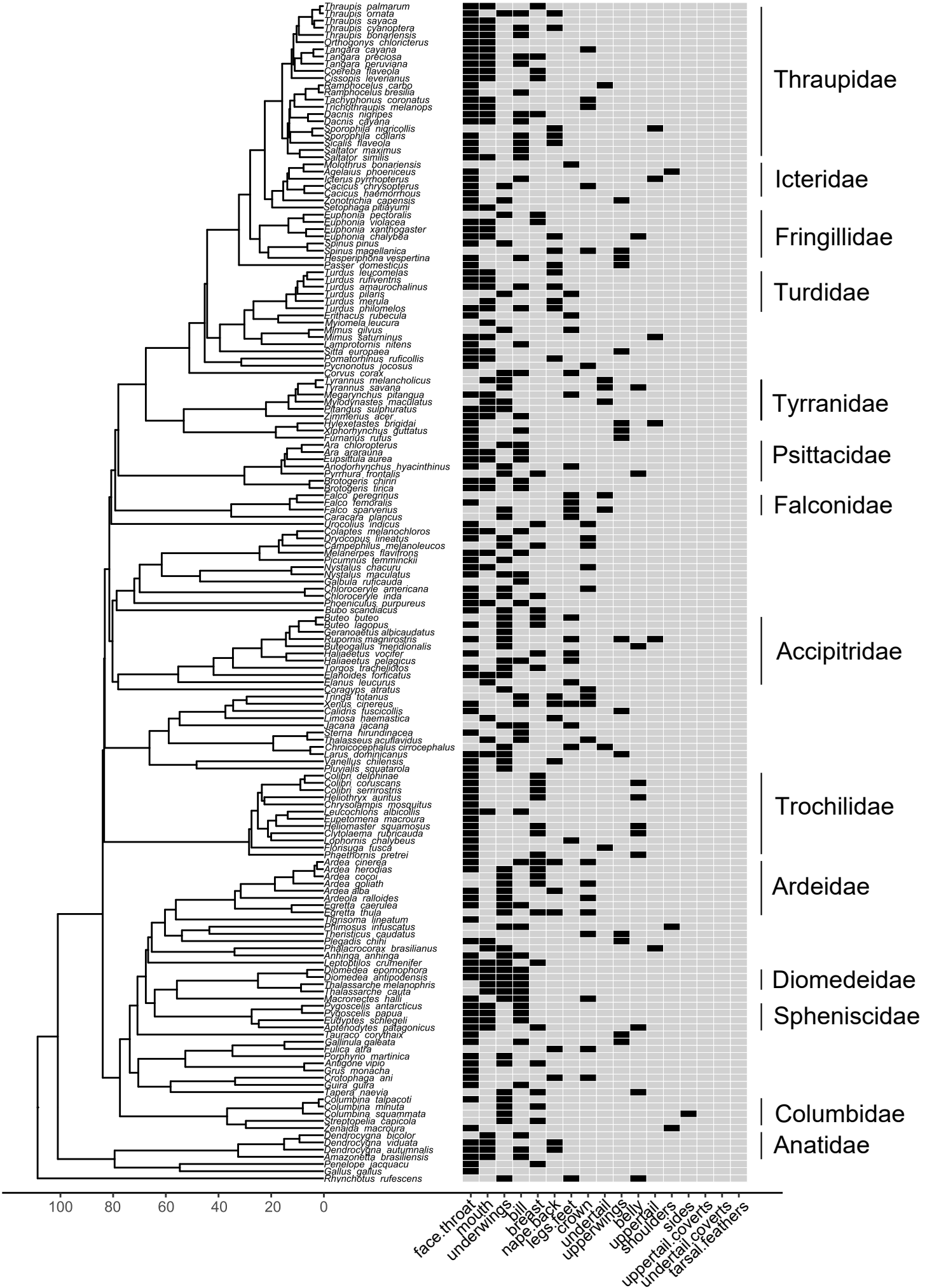

(a)
posture assumed
1
0.5
0
a
b
c
d
d
d
d
forward. lowered
forward. upright
forward. normal
feet. forward
side. oriented
above
upside. down
body orientation
(b)
posture assumed
1
0.5
0
a
b
b
c
d
forward. lowered
forward. upright
forward. normal
side. oriented
held.back. upward
head position
(c)
posture assumed
1
0.5
0
open wings
a
a
b,c
a
a
b
b
c
closed.held. slightly.out
closed. flat
closed.raised. off.back
flapping
spread. outward
partially. spread
raised. upward
soaring. gliding
wing position
(d)
posture assumed
1
0.5
0
a
a
b
b
b
underwing. forward
wing.closed. shoulder.visible
wing. horizontal
wing.closed. shoulder. concealed
upperwing. forward
shoulder position
(e)
posture assumed
1
0.5
0
a
b
c
c
c
c
c
open. forward
closed. forward
open. side
closed. side
closed. downward
open. downward
closed. upward
bill position
(f)
posture assumed
1
0.5
0
a
b
c
d
d,e
e
e
e,f
e,f
f
trailing. not.fanned
trailing. fanned
down. fanned
down. not.fanned
raised.fanned
partly.raised. not.fanned
partly.raised. fanned
raised. not.fanned
side. fanned
side. not.fanned
tail position
(g)
posture assumed
1
0.5
0
a
b
c
c
c
on. substrate
extended
tucked.up
partly. extended
hanging
feet position
(h)
posture assumed
1
0.5
0
a
bill included
b,c
b,c
b,c
b
b
b
b
b,c
d
c
b
b
b
bill
bill.wing
bill.feet
bill.neck
bill.forehead
bill.face
bill.head
bill.throat.neck
bill.tail
feet
wing
breast
feet.tail
side
closest point

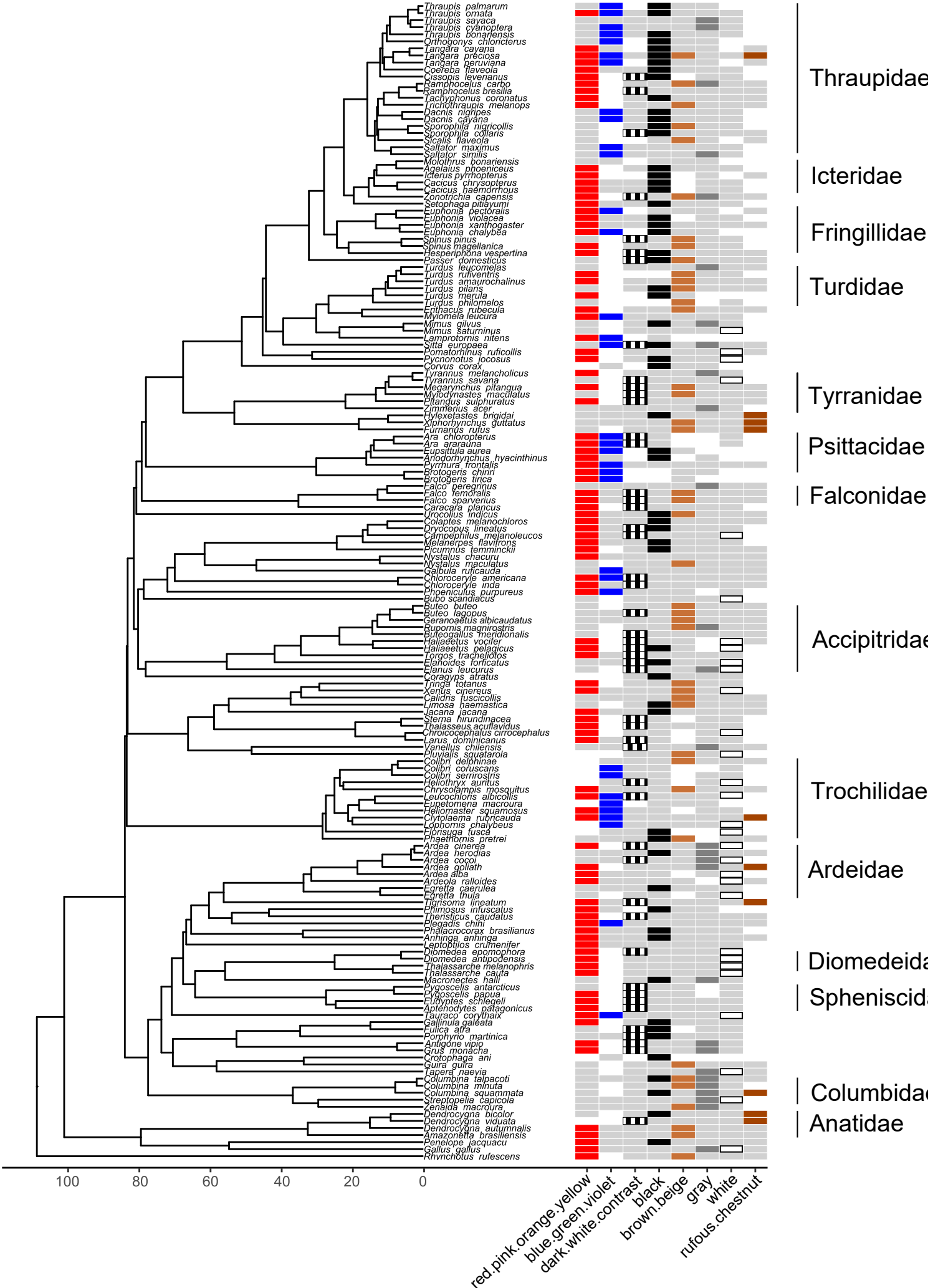
(a)

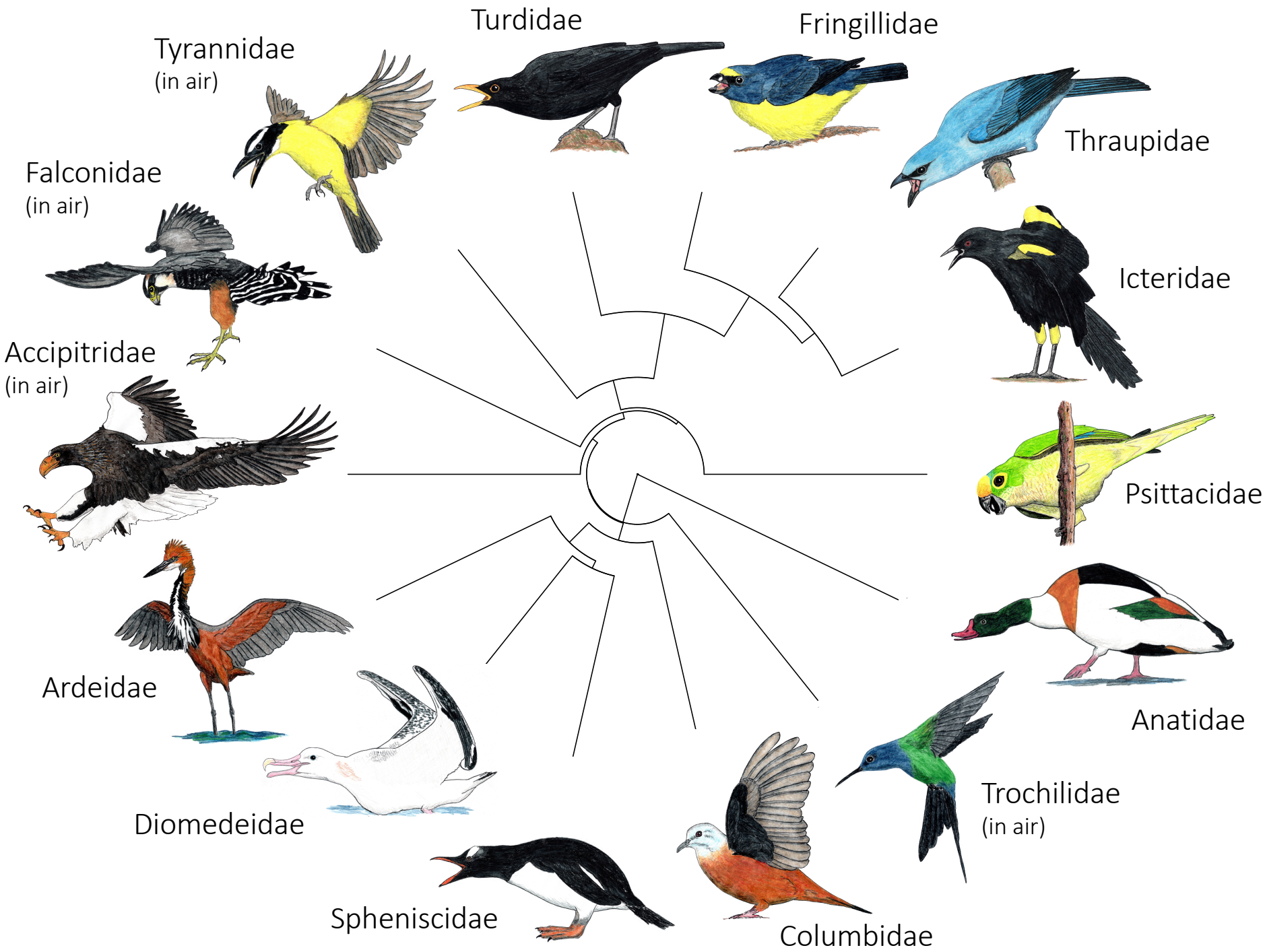

1
0.5
0
posture assumed
a
b
c c
d d,e d,e,f e,f f,g f,g g g g h
face.throat
mouth
underwings
bill
breast
nape.back
legs.feet
crown
undertail
upperwings
belly
uppertail
shoulders
sides
uppertail.coverts
undertail.coverts
tarsal.feathers
body region

(b)


1
0.5
0
posture assumed
a
b
c c c,d d,e e,f f
red.pink.
orange.yellow
blue.green.violet
black
dark.white.
contrast
brown.beige
gray
white
rufous.chestnut
color


Thraupidae
Icteridae
Fringillidae
Turdidae
Tyrranidae
Psittacidae
Falconidae
Accipitridae
Trochilidae
Ardeidae
Diomedeidae
Sphenisciidae
Columbidae
Anatidae
Thraupis palmarum
Thraupis ornata
Thraupis sayaca
Thraupis cyanoptera
Thraupis bonariensis
Orthogonys chloricterus
Tangara cayana
Tangara preciosa
Tangara peruviana
Coereba flaveola
Cissopis leverianus
Ramphocelus carbo
Ramphocelus bresilia
Tachyphonus coronatus
Trichothraupis melanops
Dacnis nigripes
Dacnis cayana
Sporophila nigricollis
Sporophila collaris
Sicalis flaveola
Saltator maximus
Saltator similis
Molothrus bonariensis
Agelaius phoeniceus
Icterus pyrrhopterus
Cacicus chrysopterus
Cacicus haemorrhous
Zonotrichia capensis
Setophaga pitiayumi
Euphonia pectoralis
Euphonia violacea
Euphonia xanthogaster
Euphonia chalybea
Spinus pinus
Spinus magellanica
Hesperiphona vespertina
Passer domesticus
Turdus leucomelas
Turdus rufiventris
Turdus amaurochalinus
Turdus pilaris
Turdus merula
Turdus philomelos
Erithacus rubecula
Myiomela leucura
Mimus gilvus
Mimus saturninus
Lamprotornis nitens
Sitta europaea
Pomatorhinus ruficollis
Pycnonotus jocosus
Corvus corax
Tyrannus melancholicus
Tyrannus savana
Megarynchus pitangua
Myiodynastes maculatus
Pitangus sulphuratus
Zimmerius acer
Hylexetastes brigidai
Xiphorhynchus guttatus
Furnarius rufus
Ara chloroptera
Ara ararauna
Eupsittula aurea
Anodorhynchus hyacinthinus
Pyrrhura frontalis
Brotogeris chiriri
Brotogeris tirica
Falco peregrinus
Falco femoralis
Falco sparverius
Caracara plancus
Urocolius indicus
Colaptes melanochloros
Dryocopus lineatus
Campephilus melanoleucos
Melanerpes flavifrons
Picumnus temminckii
Nystalus chacuru
Nystalus maculatus
Galbula ruficauda
Chloroceryle americana
Chloroceryle inda
Phoeniculus purpureus
Bubo scandiacus
Buteo buteo
Buteo lagopus
Geranoaetus albicaudatus
Rupornis magnirostris
Buteogallus meridionalis
Haliaeetus vocifer
Haliaeetus pelagicus
Torgos tracheliotos
Elanoides forficatus
Elanus leucurus
Coragyps atratus
Tringa totanus
Xenus cinereus
Calidris fuscicollis
Limosa haemastica
Jacana jacana
Sterna hirundinacea
Thalasseus acuflavidus
Chroicocephalus cirrocephalus
Larus dominicanus
Vanellus chilensis
Pluvialis squatarola
Colibri delphinae
Colibri coruscans
Colibri serrirostris
Heliothryx auritus
Chrysolampis mosquitus
Leucochloris albicollis
Eupetomena macroura
Heliomaster squamosus
Clytolaema rubricauda
Lophornis chalybeus
Florisuga fusca
Phaethornis pretrei
Ardea cinerea
Ardea herodias
Ardea cocoi
Ardea goliath
Ardea alba
Ardeola ralloides
Egretta caerulea
Egretta thula
Tigrisoma lineatum
Phimosus infuscatus
Theristicus caudatus
Plegadis chihi
Phalacrocorax brasilianus
Anhinga anhinga
Leptoptilos crumenifer
Diomedea epomophora
Diomedea antipodensis
Thalassarche melanophris
Thalassarche cauta
Macronectes halli
Pygoscelis antarcticus
Pygoscelis papua
Eudyptes schlegeli
Aptenodytes patagonicus
Tauraco corythaix
Gallinula galeata
Fulica atra
Porphyrio martinica
Antigone vipio
Grus monacha
Crotophaga ani
Guira guira
Tapera naevia
Columbina talpacoti
Columbina minuta
Columbina squammata
Streptopelia capicola
Zenaida macroura
Dendrocygna bicolor
Dendrocygna viduata
Dendrocygna autumnalis
Amazonetta brasiliensis
Penelope jacquacu
Gallus gallus
Rhynchotus rufescens
100
80
60
40
20
0
face.throat
mouth
underwings
bill
breast
nape.back
legs.feet
crown
undertail
upperwings
belly
uppertail
shoulders
sides
uppertail.coverts
undertail.coverts
tarsal.feathers


Thraupidae
Icteridae
Fringillidae
Turdidae
Tyrranidae
Psittacidae
Falconidae
Accipitridae
Trochilidae
Ardeidae
Diomedeidae
Spheniscidae
Columbidae
Anatidae
100
80
60
40
20
0
red.pink.orange.yellow
blue.green.violet
dark.white.contrast
black
brown.beige
gray
white
rufous.chestnut


Turdidae
Fringillidae
Tyrannidae
(in air)
Thraupidae
Falconidae
(in air)
Icteridae
Accipitridae
(in air)
Psittacidae
Ardeidae
Anatidae
Trochilidae
(in air)
Diomedeidae
Spheniscidae
Columbidae