

Passeriformes

Společné znaky:

- patro - aegitognátní (výjimka Conopophagidae)
- krční obratle - 14 (Eurylaimoidea 15)
- atlas - perforovaný
- noha - anizodaktylní
- palec - dlouhý, v rovině prstů
- ruční letky - obvykle 10, první často zakrnělá nebo chybí, 11 *Menura* a *Atrichornis*, většina lobošů, *Furnaroidea*

- Eutaxie
- Rýdovací pera - 12, někdy 10, Menura 16, 6
Furnariidae - *Silviortorhynchus*, Maluridae - *Stipiturus*
- Paosten - chybí (výjimka Acanthisitidae), malý u Passerida
- Chybí drobivý prach pelichání ručních letek descendentní
- Pelichání RP centrifugální (od středu), výjimka *Certhia*
- Mazová žláza holá
- Mlád'ata - slepá, holá nebo s řídkým prachovým opeřením na zádech (výjimka *Menura*)

Division 9

Order Piciformes

Suborder Galbulae; Galbulidae, Jacamars
Bucconidae, Puffbirds

Suborder Pici

Superfam. Capitonoidea, Capitonidae, Barbets
Ramphastidae, Toucans
Superfam. Picoidea; Indicatoridae, Honeyguides
Picidae, Woodpeckers

Order Coliiformes; Coliidae, Colies

Order Coraciiformes

Suborder Alcedines

Infraorder Alcedini

Superfam. Alcedinoidea; Alcedinidae, Kingfishers
Meropidae, Bee-eaters
Superfam. Momotoidea; Todidae, Todies
Momotidae, Motmots

Infraorder Coracii

Superfam. Leptosomatoidea; Leptosomatidae, Cuckoo-rollers
Superfam. Coracioidea; Coraciidae, Rollers
Brachypteraciidae, Ground-rollers

Infraorder Trogones; Trogonidae, Trogons

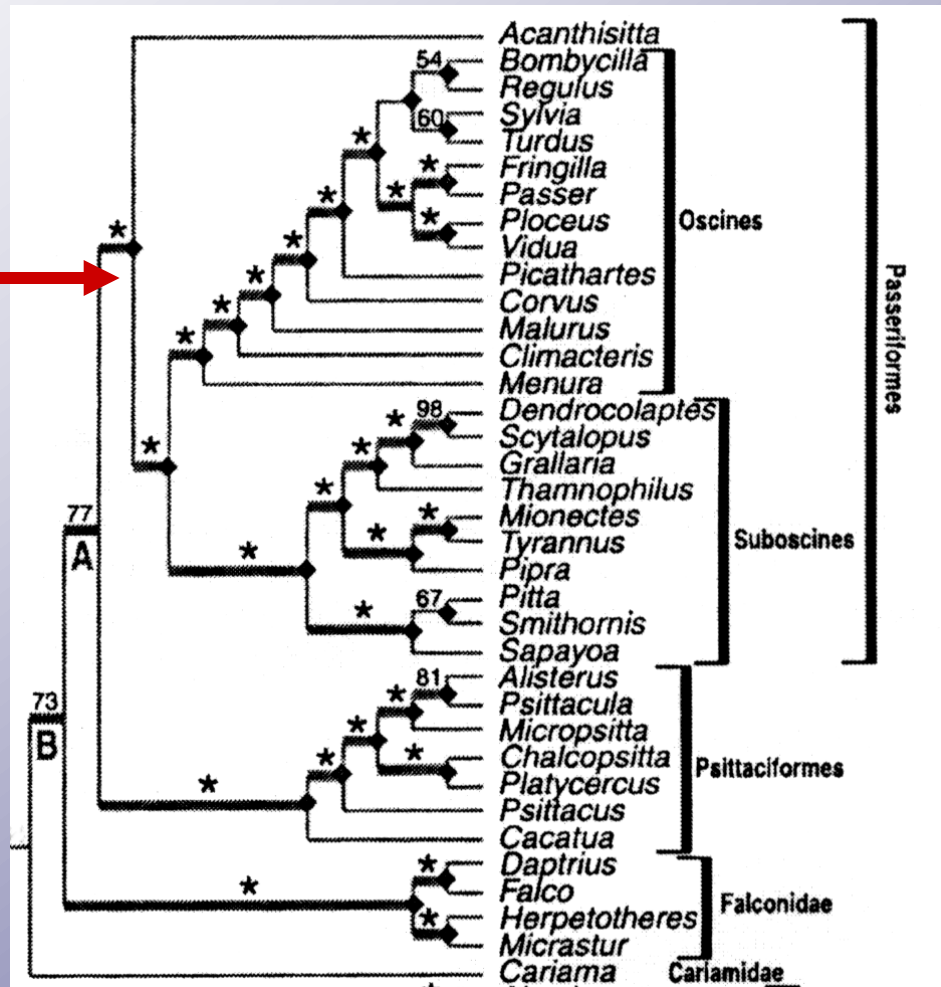
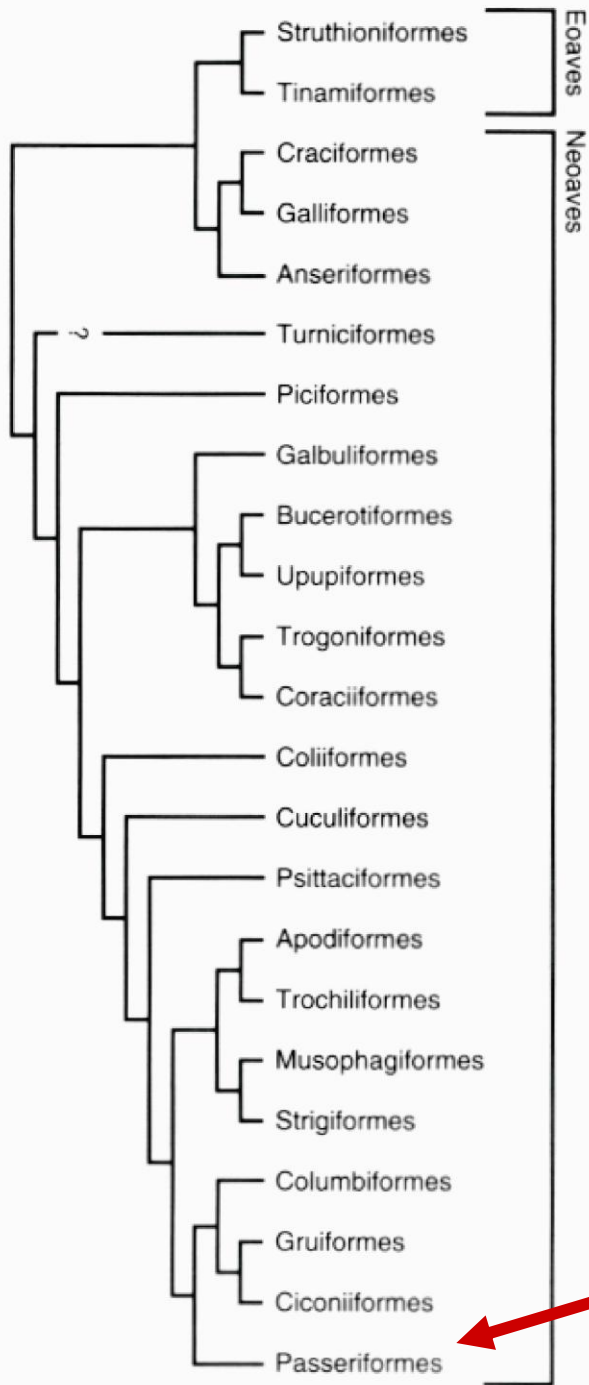
Suborder Upupes; Upupidae, Hoopoes
Phoeniculidae, Wood Hoopoes

Suborder Bucerotes, Bucerotidae, Hornbills

Order Passeriformes (See under Passeriformes)



(Cracraft 1981, morfologie)

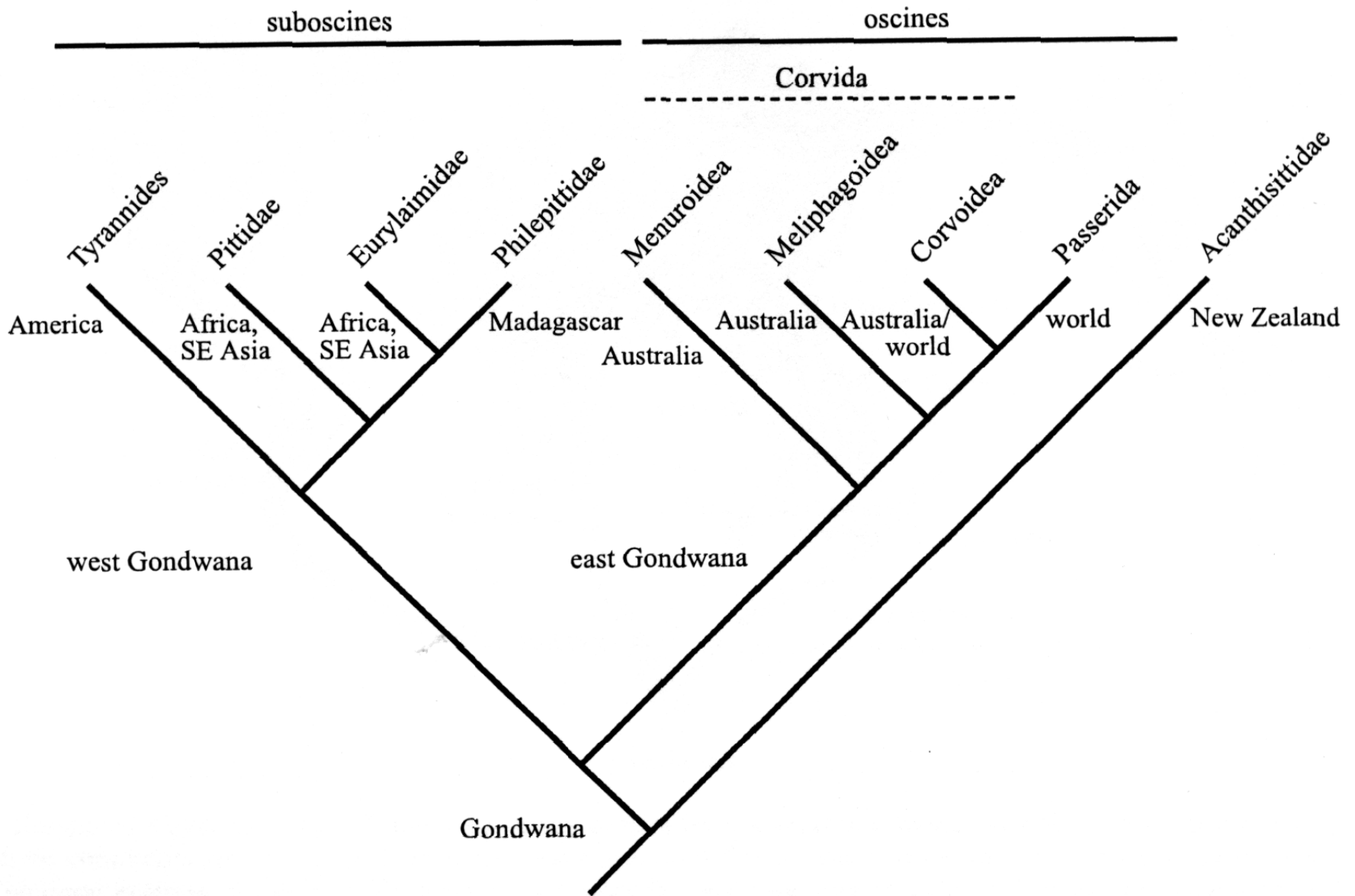


(Hackett et al. 2008)

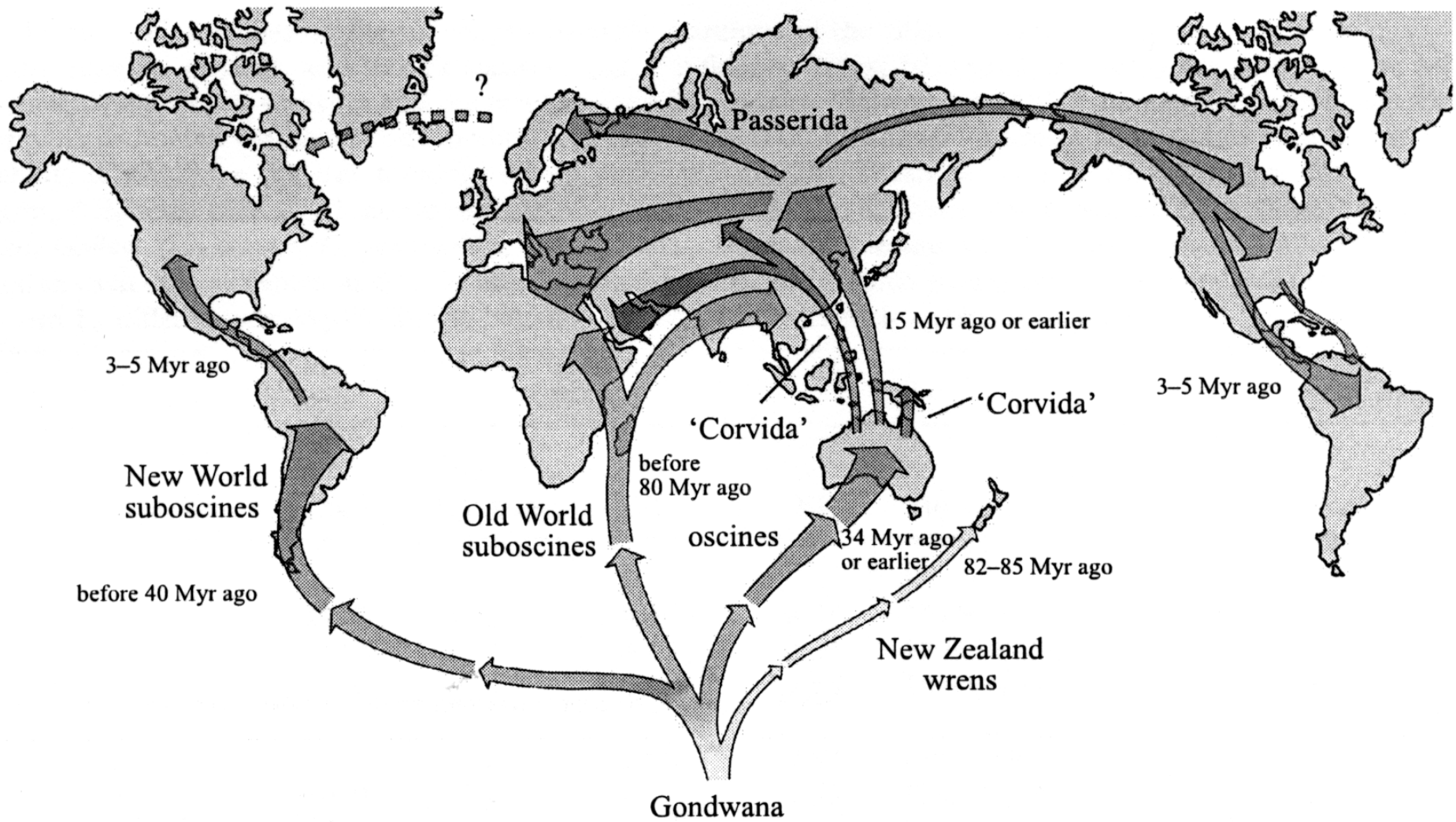
(Sibley & Ahlquist 1990)

Fylogeneze Passeriformes

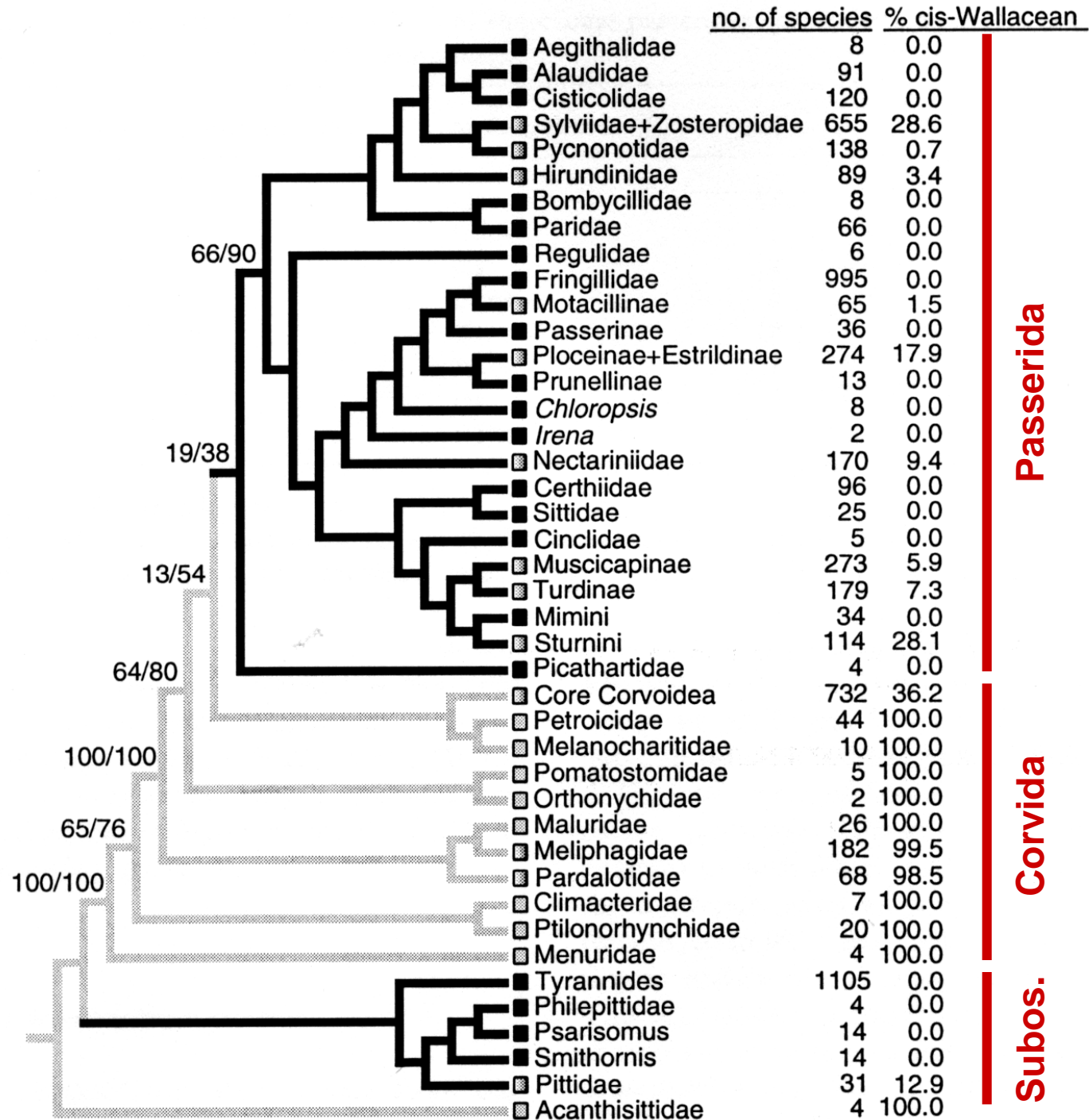
- 60 % Aves (5274 - 5712) druhů
- Oscines – 40 % Aves (4700 druhů)
- 1956 - Basilejská konvence pořadí čeledí
- 1990 – Sibley & Ahlquist – Corvida vs. Passerida



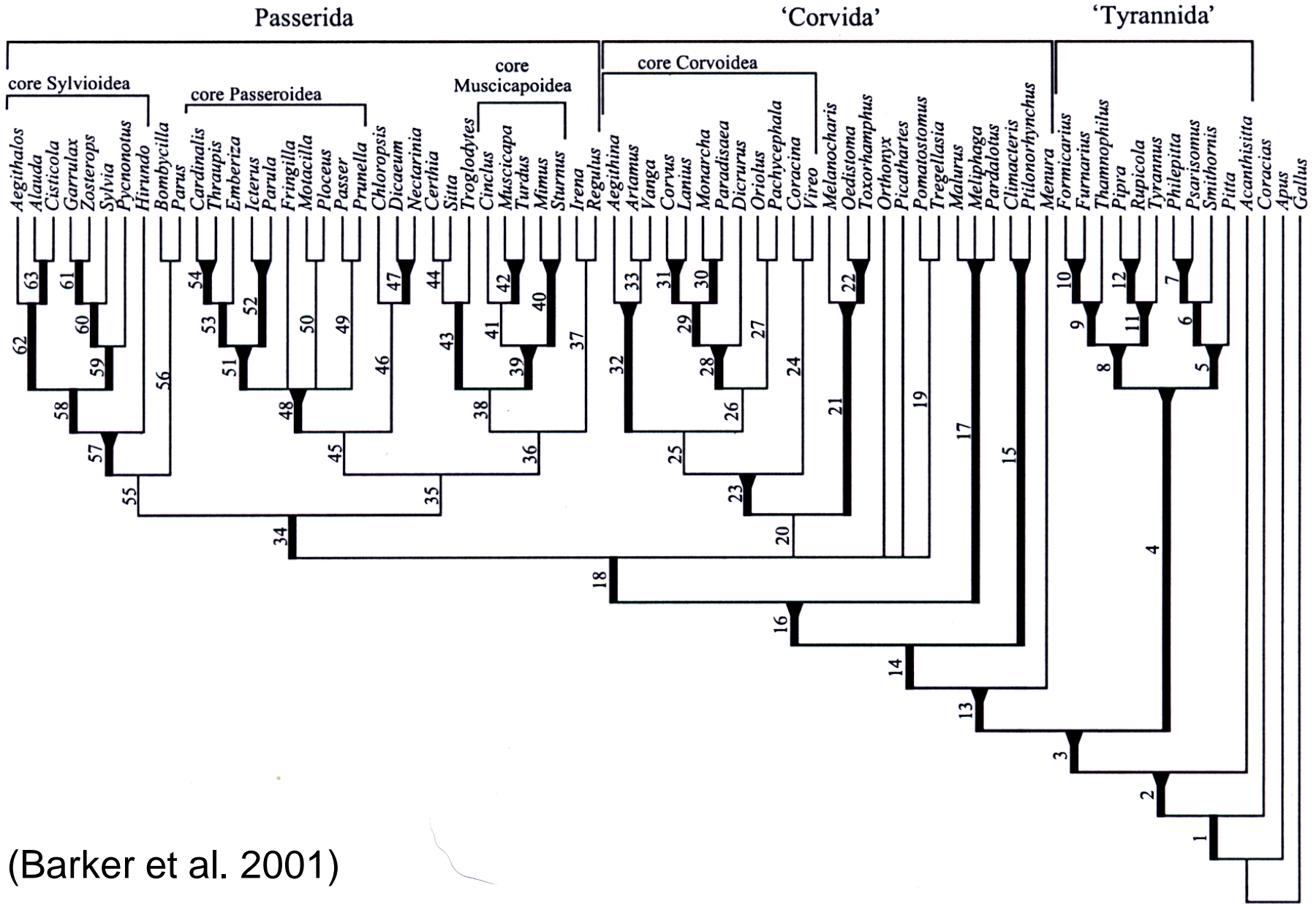
(Ericson et al. 2001, DNA)



(Ericson et al. 2001)



(Barker et al. 2001)



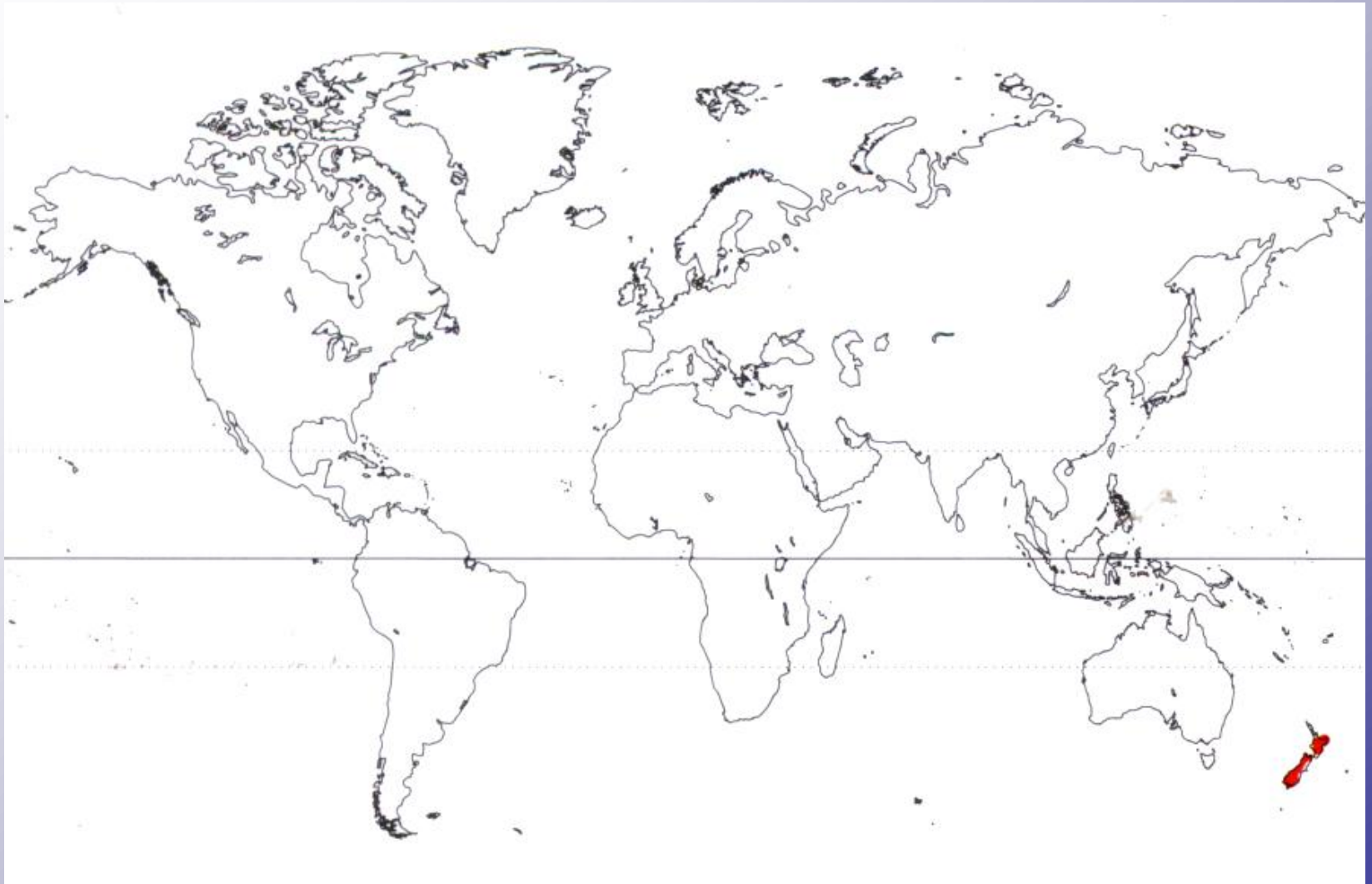
(Barker et al. 2001)

Přehled čeledí Passeriformes

Acanthisittidae

(2/3)

Acanthisittidae



Acanthasitta chloris



Nový Zéland

„helpers“

*Xenicus
gilviventris*

Video: www.arkive.org

Nový Zéland



Suboscines

Suboscines (Starý svět)

- Philepittidae
- Eurylaimidae
- Pittidae

Suboscines (Nový svět)

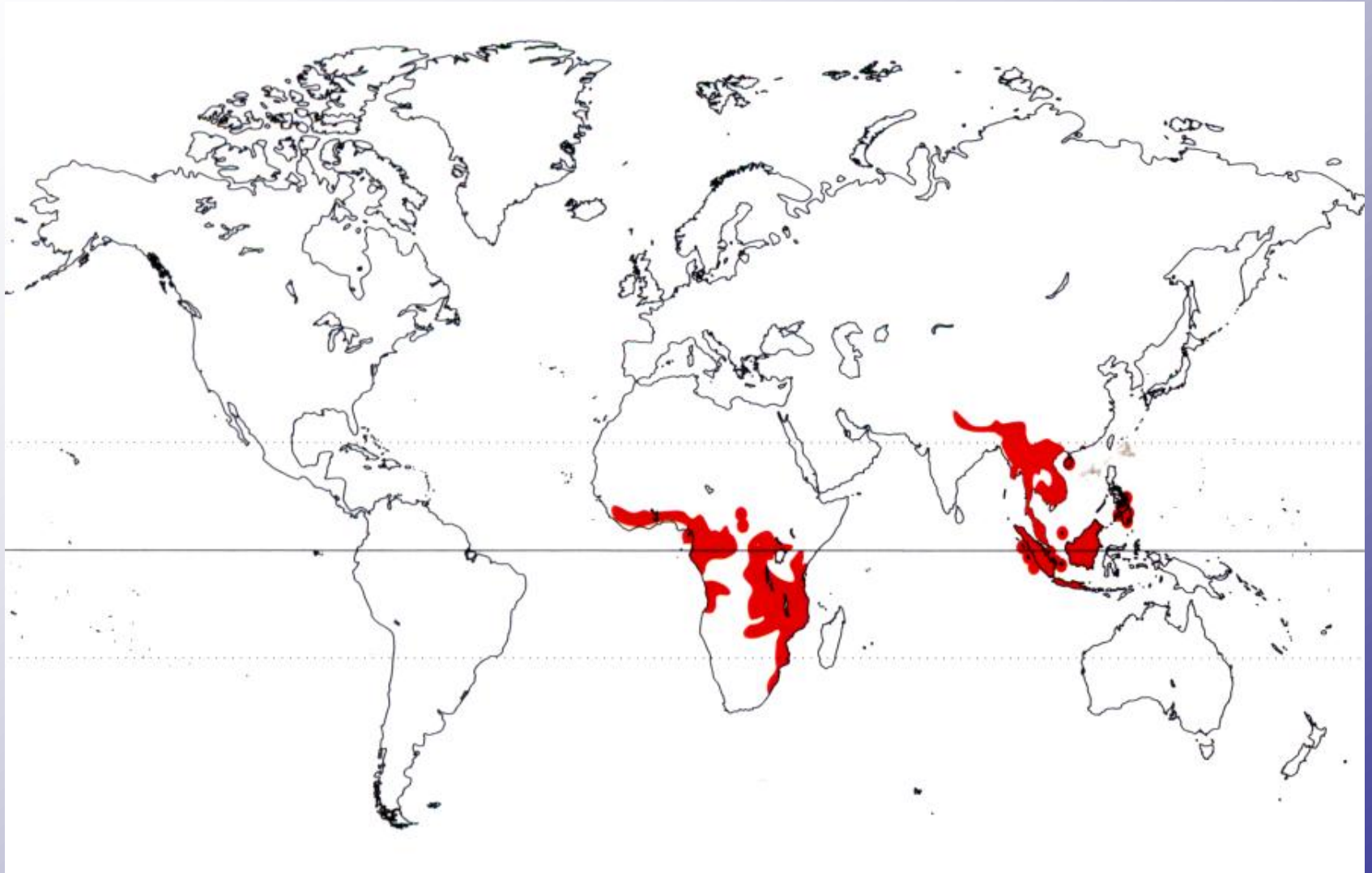
- Pipridae
- Tyrannidae
- Cotingidae
- Thamnophilidae
- Furnariidae
- Dendrocolaptidae
- Formicariidae
- Conopophagidae
- Rnincryptidae

Suboscines – Starý Svět

Eurylaimidae

(9/15)

Eurylaimidae



EURLAIMIDAE

SMITHORNITHINAE



typical African broadbills
3 species
(*Smithornis*)

CALYPTOMENINAE



Asian green broadbills
3 species
(*Calyptomena*)

EURLAIMINAE



assorted Asian broadbills
8 species
(*Cymbirhynchus*, *Psarisomus*,
Serilophus, *Eurylaimus*,
Sarcophanops, *Corydon*)

PSEUDOCALYPTOMENINAE



Grauer's Broadbill
1 species
(*Pseudocalyptomena*)

FAMILY

SUBFAMILY

Kooperativní hnízdění

*Smithornis
capensis*

polygynie

Afrika



*Calyptomena
whiteheadi*



Borneo

Cymbirhynchus macrorhynchos



Malajsie

*Cymbirhynchus
macrorhynchus*



Banphot Kittikinglert

CANON EOS 100

SIGMA 300 F2.8 EX HSM

PHOTOGRAPHER : T*

*Psarisormus
dalhousiae*



JV Asie

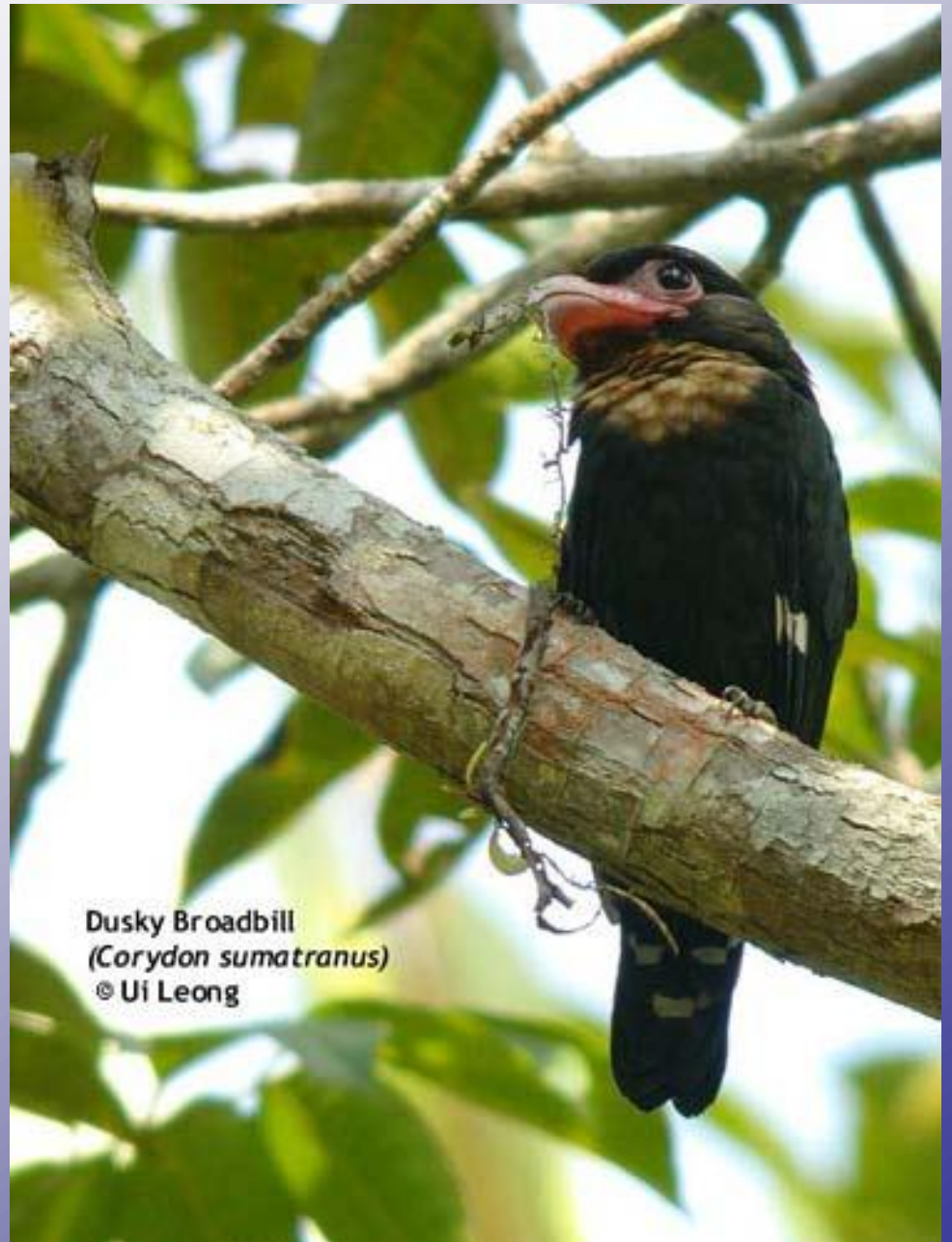
Eurylaimus ochromalus



Malajsie

George J. S. Sumbat ©

*Corydon
sumatrans*



Dusky Broadbill
(*Corydon sumatranus*)
© Ui Leong

Malajsie

Pseudocalyptomena graueri

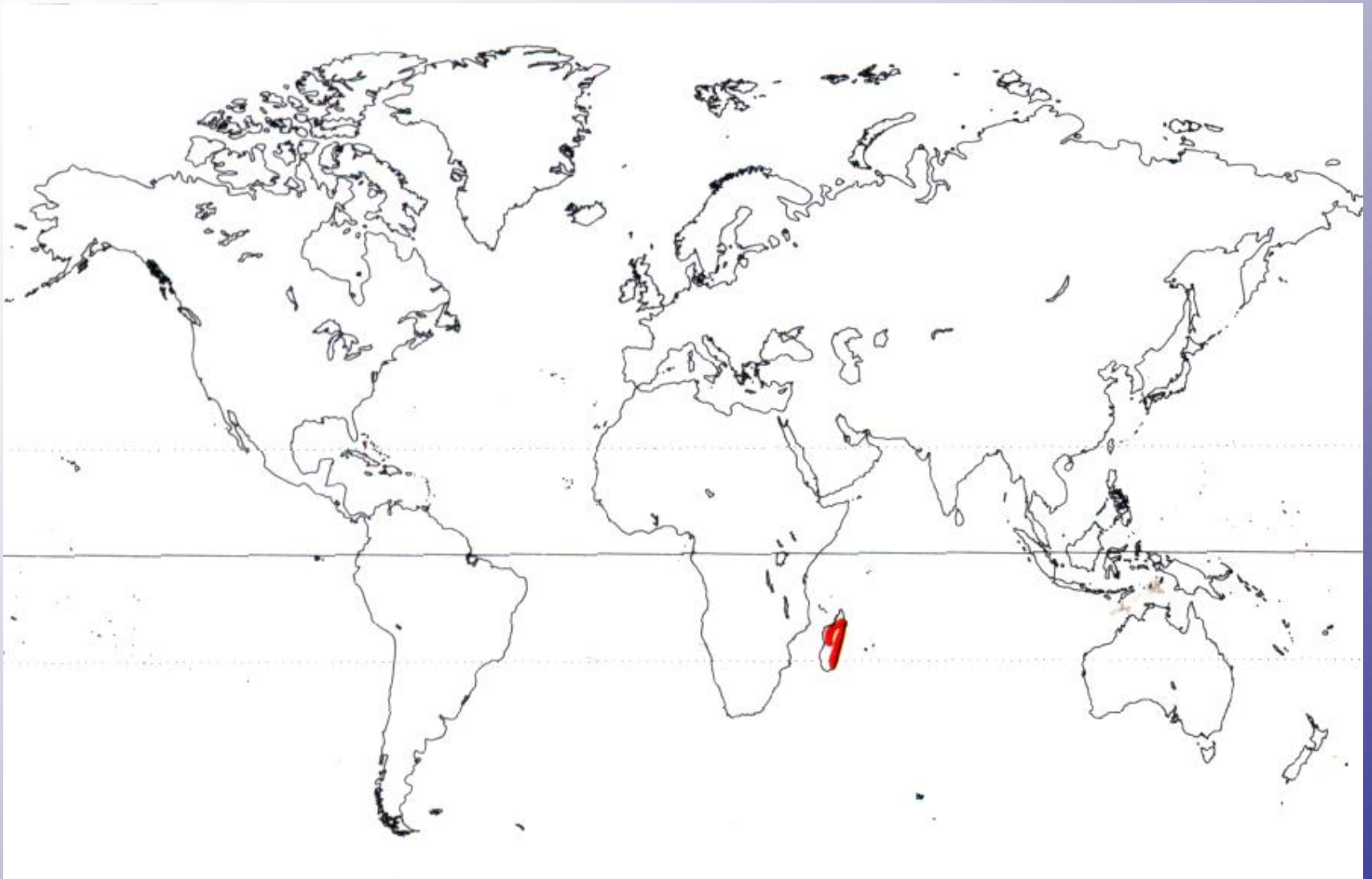


Afrika

Philepittidae

(2/4)

Philepittidae



Philepitta castanea



Polygynie

Madagaskar

Neodrepanis hypoxantha



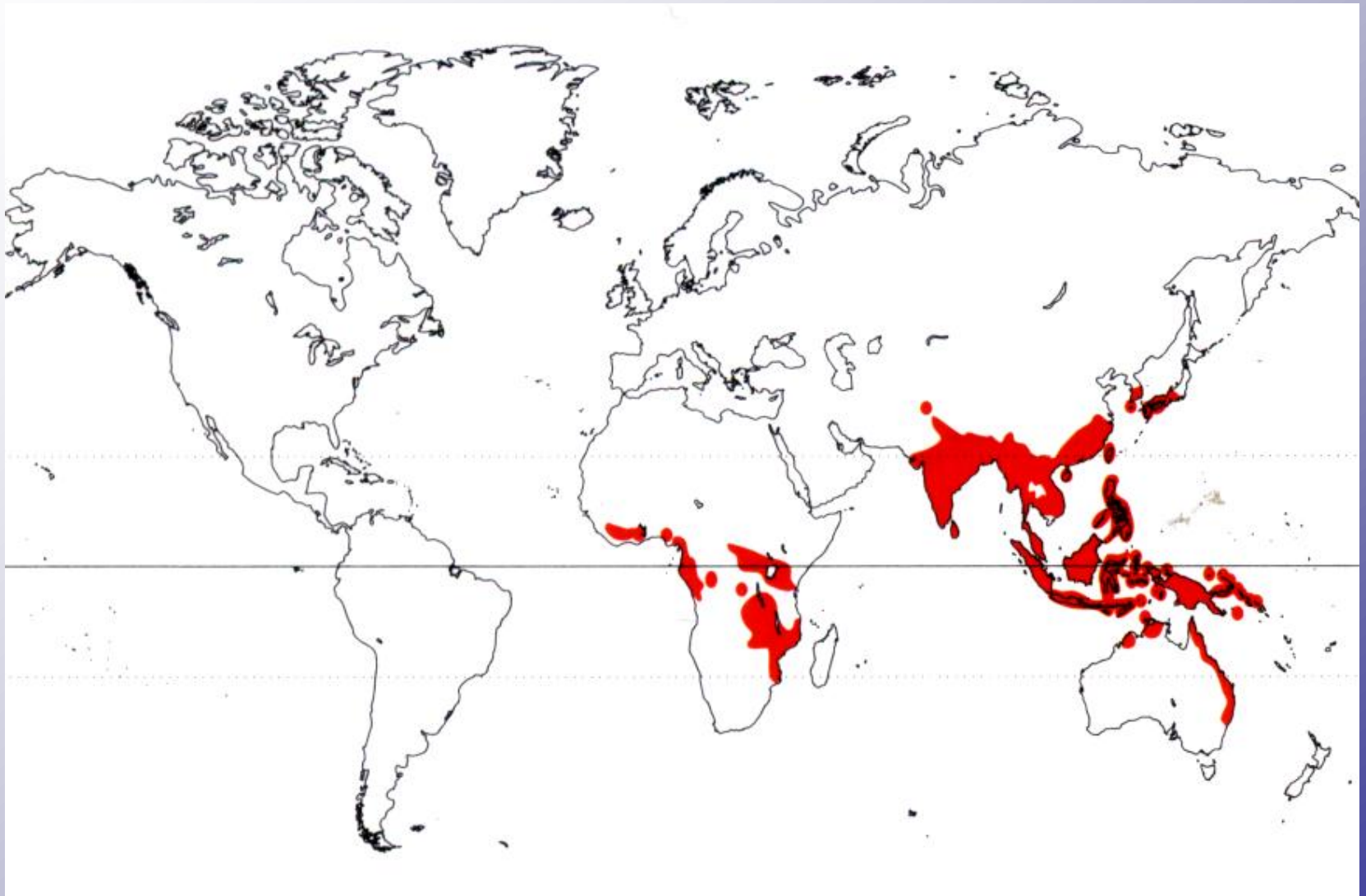
Madagascar

Polygynie

Pittidae

(1/30)

Pittidae



Pitta phayrei



JV Asie

Pitta cyanea



JV Asie

Pitta versicolor



Australie

Pitta erythrogaster

© 1994 Jon Hornbuckle



Malajsie

Suboscines – Nový Svět

**S & A
(1990)**

**Chesser
(2004)**

Tyrannida



Furnariida



Thamnophilida



Oxyruncus

Cotinginae

Tityrinae

Piprinae

Tyranninae

Pipromorphinae

Furnariidae

(Furnariinae + Dendrocolaptinae)

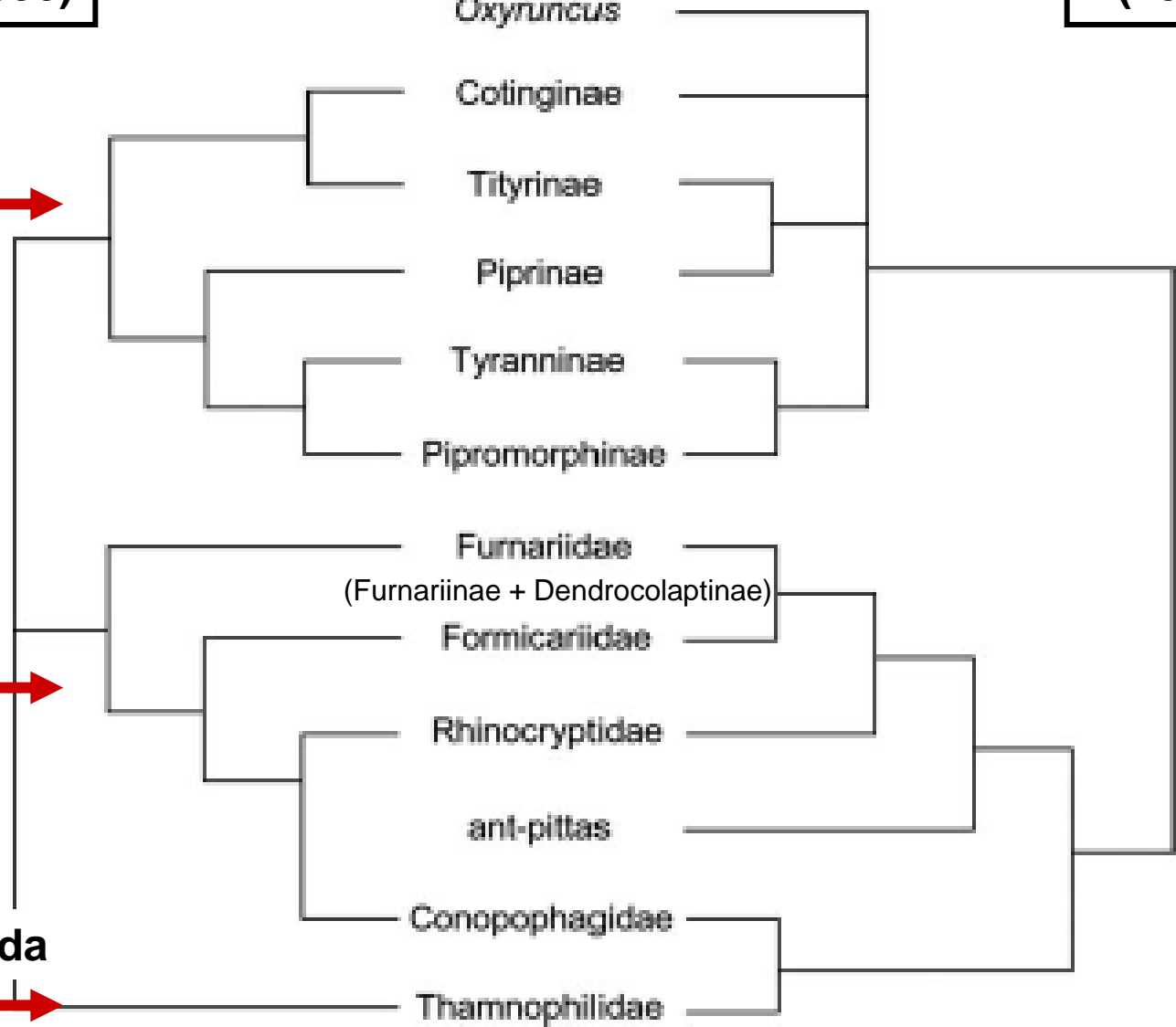
Formicariidae

Rhinocryptidae

ant-pittas

Conopophagidae

Thamnophilidae



Furnariidae

(56/236)

Furnariidae



Geositta peruviana



Peru

Geositta sp.



Cincooides fuscus



J. Amerika

*Synallaxis
spixi*



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Cranioleuca henricae



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Margarornis squamiger



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Phleocryptes melanops



Wren Like Rushbird © Harold Stiver

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Pseudoseisura cristata

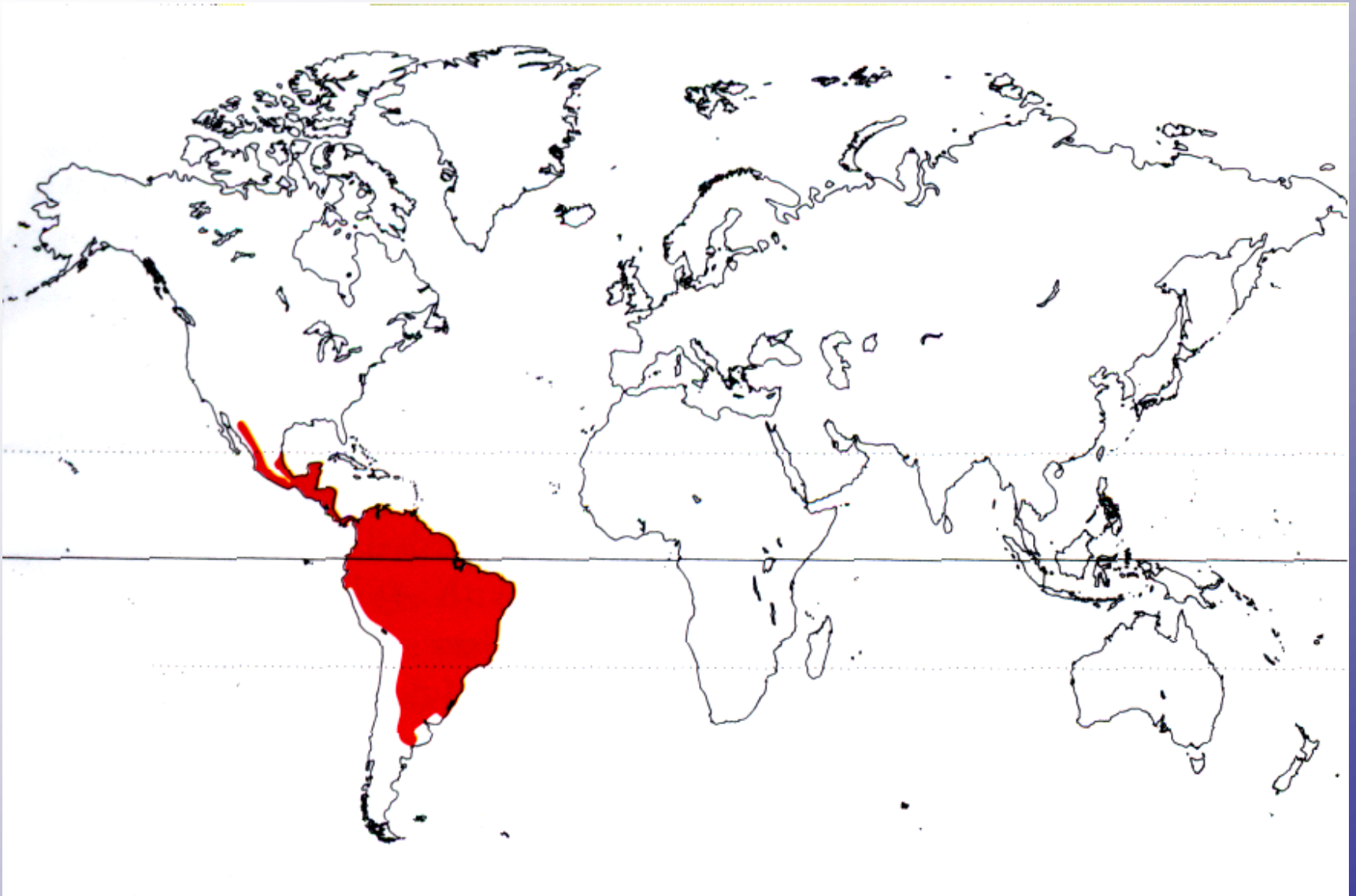


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Dendrocolaptidae

(13/52)

Dendrocolaptidae



*Dendrocincla
turdina*

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Drymornis bridgesii



www.avesdelnea.blogspot.com ©

Marcelo Allende

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*Xiphocolaptes
major*



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Campylorhynchus trochilirostris

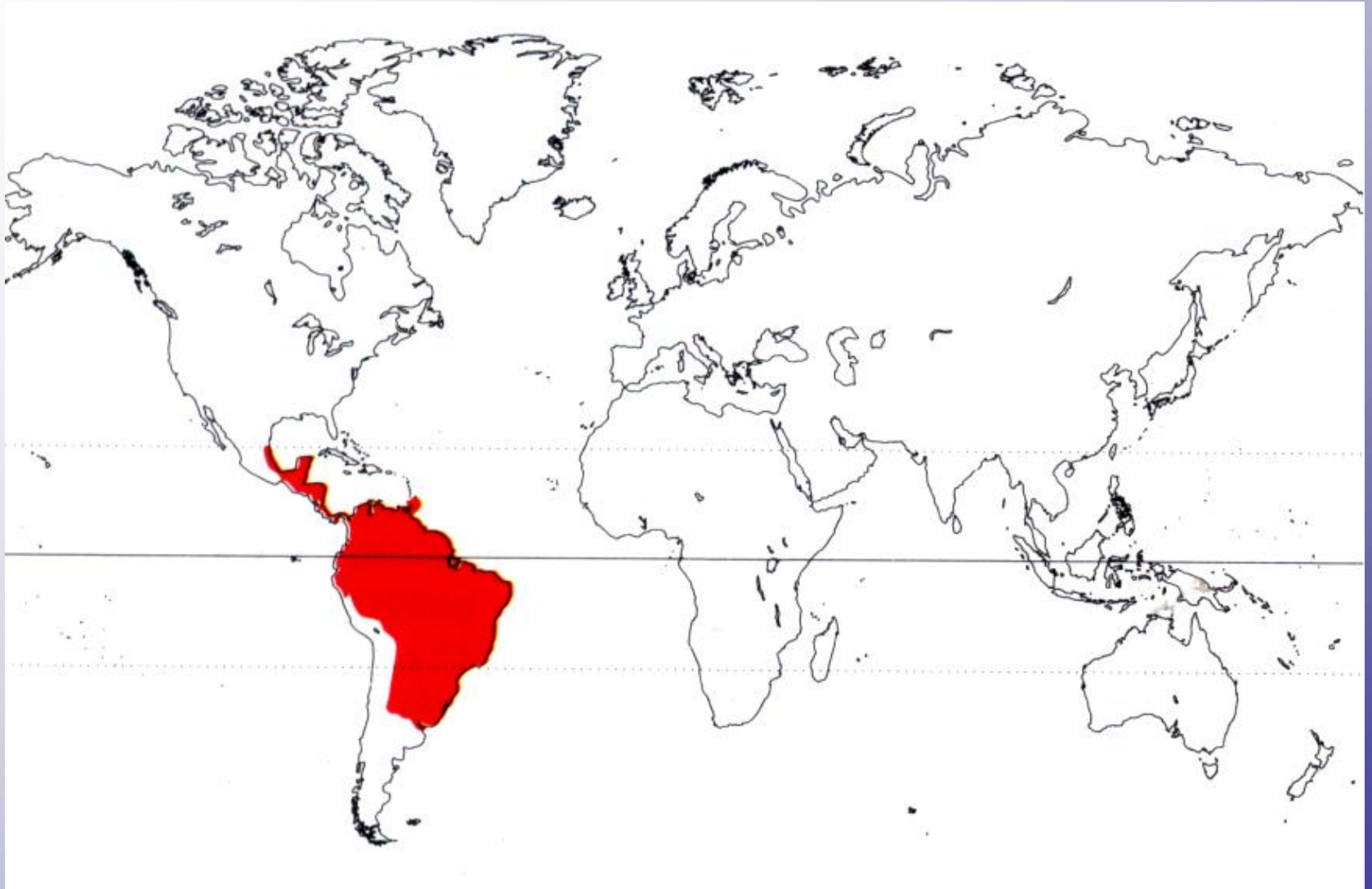


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Thamnophilidae

(45/209)

Thamnophilidae



Cymbilaimus lineatus



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*Mackenziaena
severa*



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Sakesphorus cristatus



J. Amerika

Thamnophilus doliatus



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*Formicivora
erythronotos*



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Hylophylax naevius

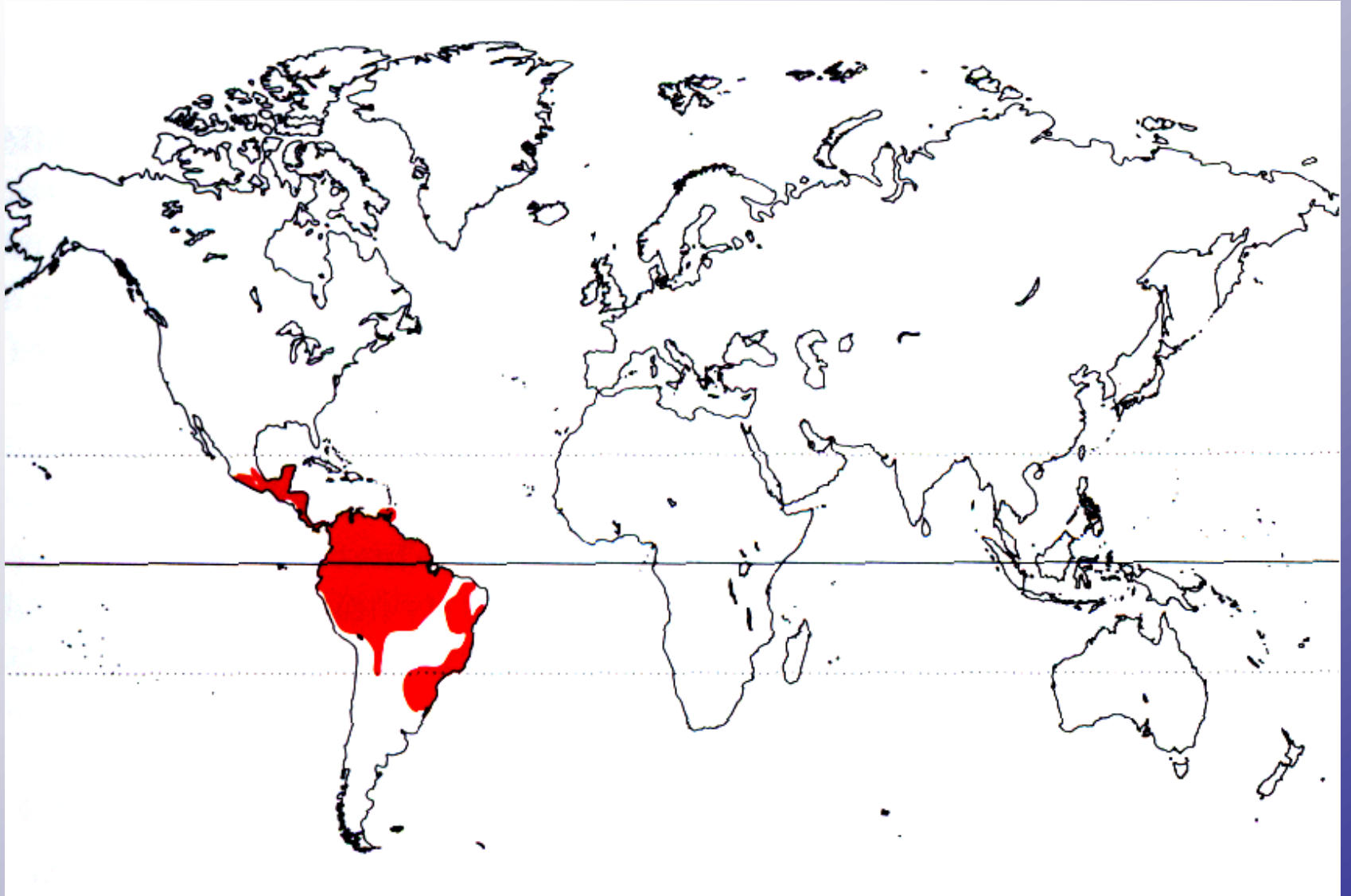


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Formicariidae

(7/63)

Formicariidae



Formicarius rufifrons



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*Hylopezeus
persicillatus*



J. Amerika

Grallaria gigantea

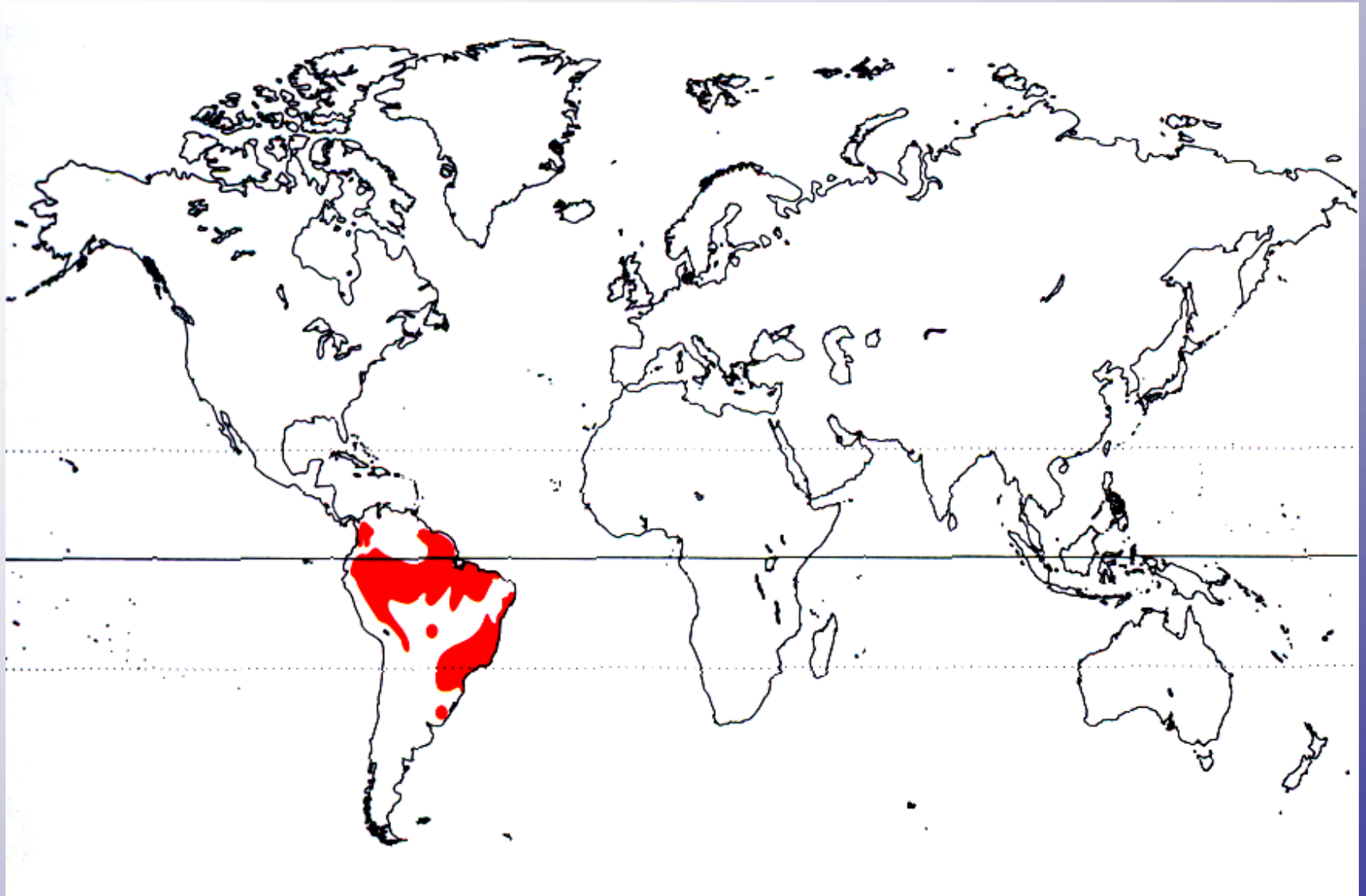


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Conopophagidae

(1/8)

Conopophagidae



Conopophaga aurita



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Conopophaga aurita

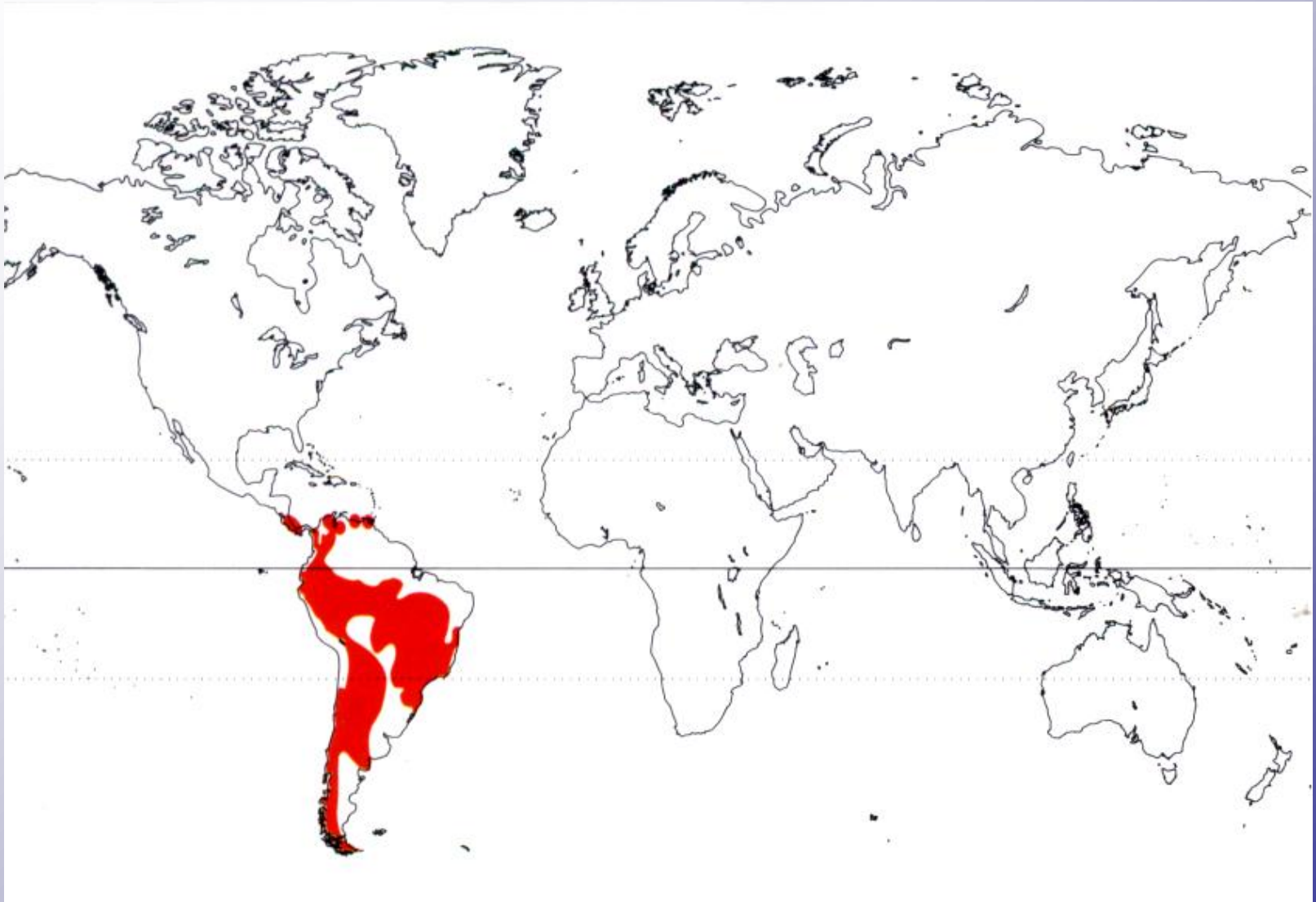


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Rhinocryptidae

(12/55)

Rhinocryptidae



Pteroptochos megapodius



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Acropternis orthonyx



Andy

Melanopareia torquata

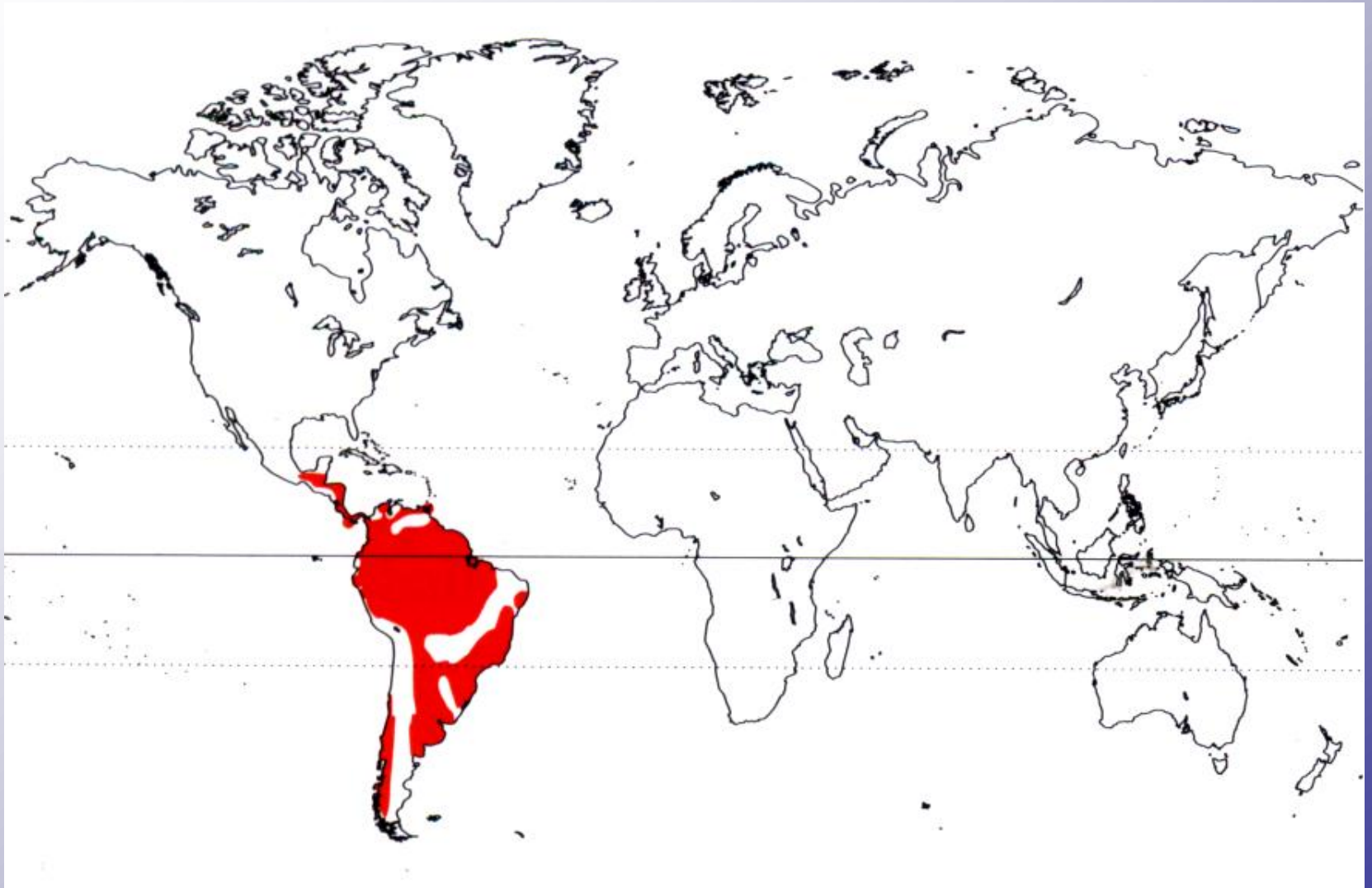


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Cotingidae

(29/71)

Cotingidae



Oxyruncus cristatus



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Phytotoma raimondii



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Ampelioides tschudii



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Cotinga nattererii



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Xipholema punicea



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Carpodectes antoniae



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Gymnoderus foetidus



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*Cephalopterus
penduliger*



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Perissocephalus tricolor



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Procnias
tricarunculatus

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Rupicola rupicola



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Rupicola rupicola

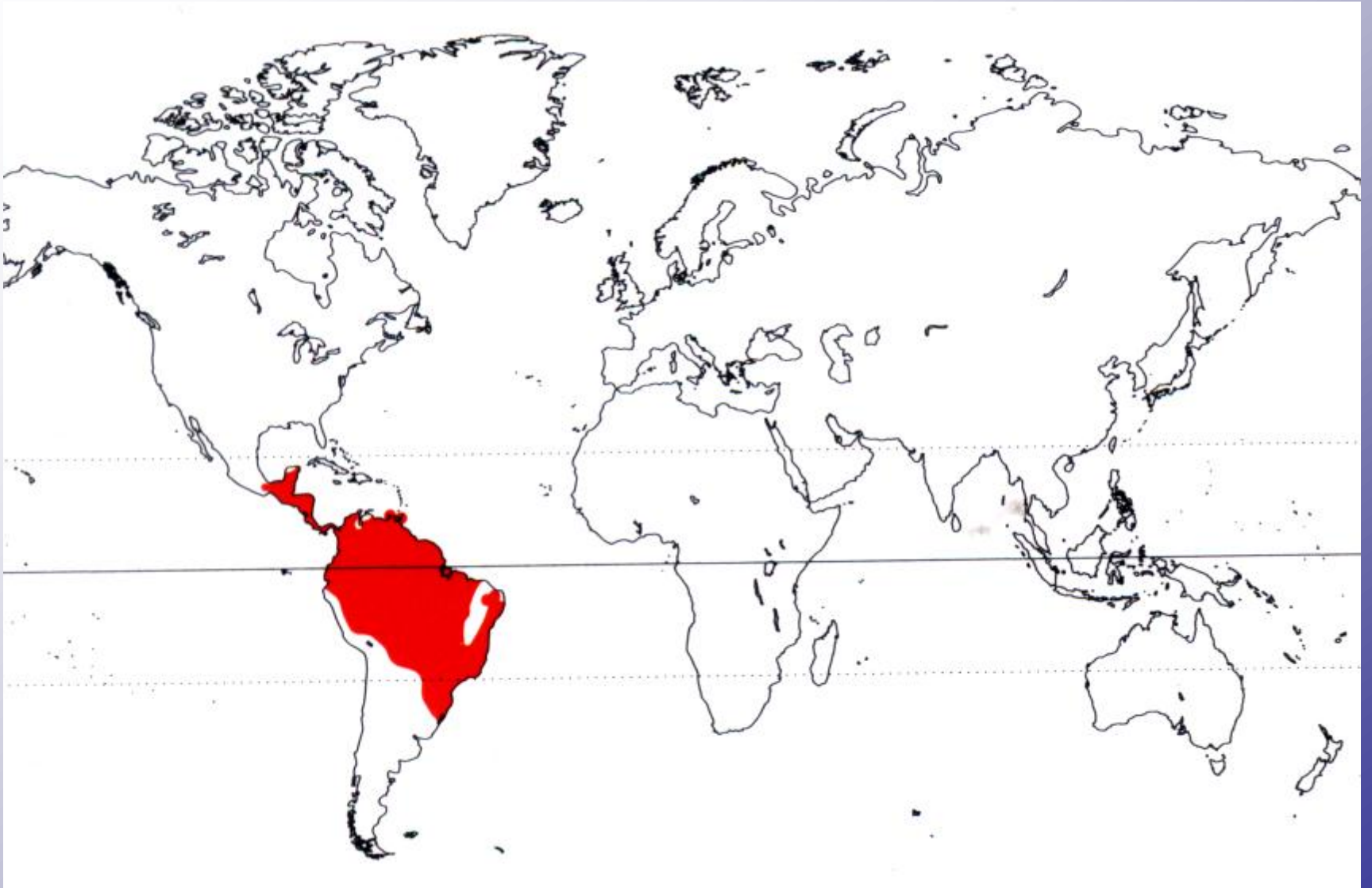


Video: www.arkive.org

Pipridae

(18/58)

Pipridae



Pipra filicauda



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Lepidothrix nattereri



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Chiroxiphia caudata



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Manacus manacus



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*Manacus
vitellinus*



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Neopelma pallescens



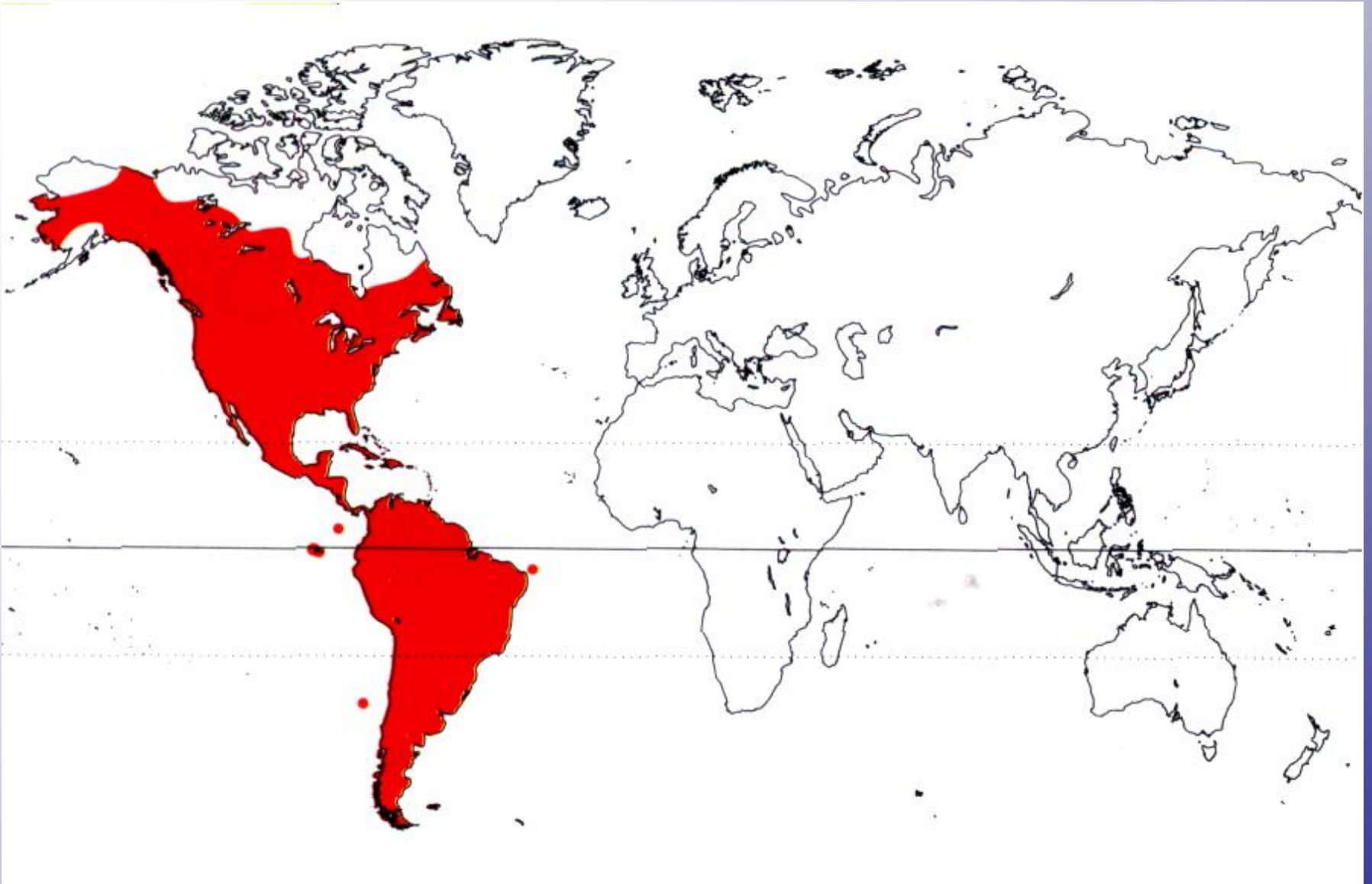
J. Amerika

Tyrannidae

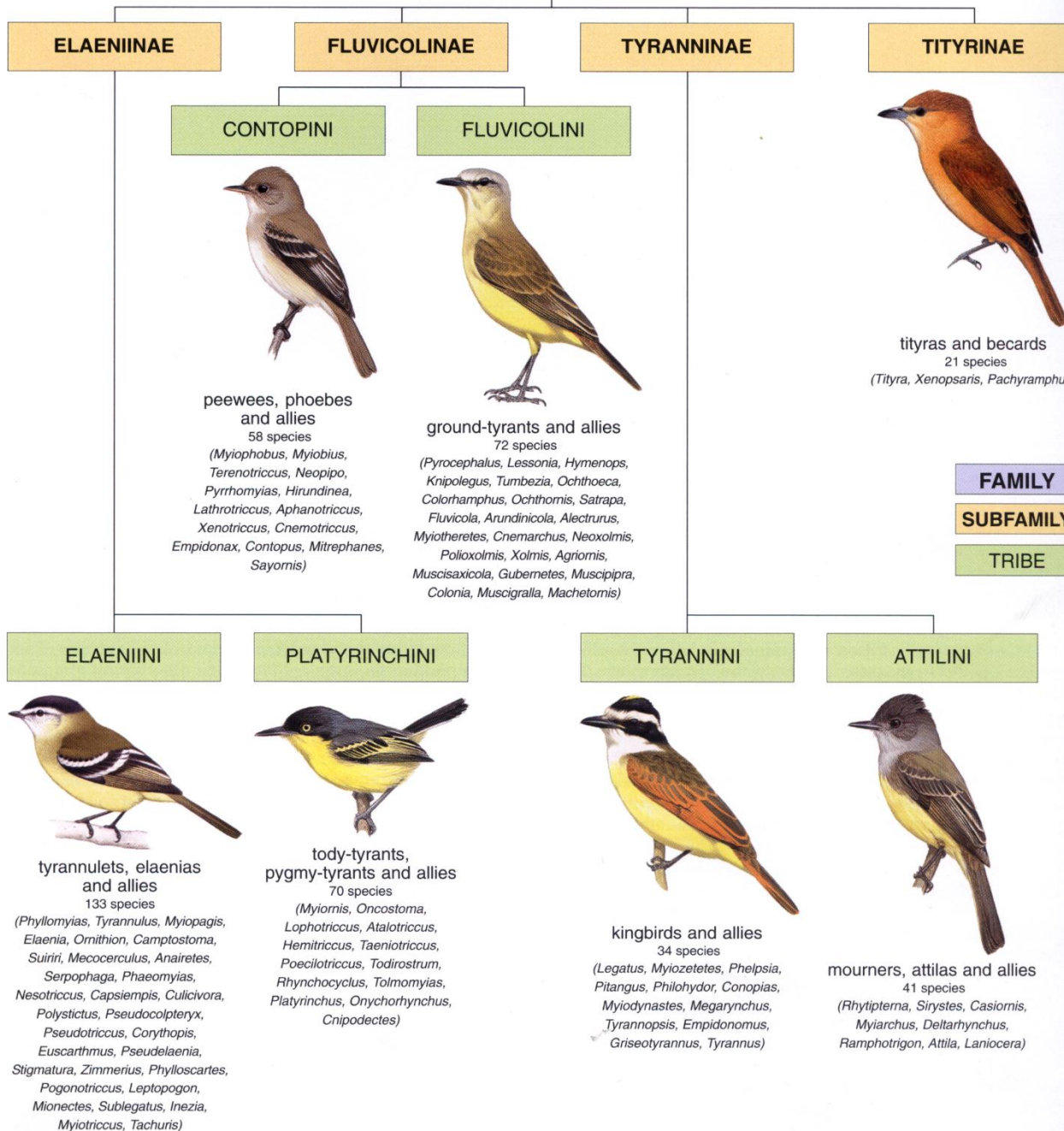
(104/429)

- Elaneiinae – převážně tropy, lesní, úzký zobák, hmyzožraví
- Fluvicolinae – často otevřená prostranství, širší zobák, hmyzožraví
- Tyranninae – velcí, celý Nový Svět, hmyzožraví
- Tityrinae – pralesní, Nový Svět, často frugivorní

Tyrannidae



TYRANNIDAE



Elaeniinae

*Myiopagis
viridicata*



J. Amerika

Serpophaga cinerea



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Mionectes oleagineus



Foto: Ricardo Ibarra Portillo

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Fluvicolinae

Empidonax flaviventris



S. Amerika

Sayornis nigricans



Nový svět

Neoxolmis rufiventris



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Patagonie

Gubernetes yetapa



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Tyranninae

Tyrannus albogularis



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Tyrannus forficatus



Photo by Rick Poley
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S. Amerika

Tyrannus savana



Stř. a J. Amerika

Tyrannus tyrannus



S. Amerika

Myiarchus crinitus



S. Amerika

Onychorhynchus coronatus



Stř. a J. Amerika

Tityrinae

Tityra semifasciata



J. Amerika

Corvida

- Menuroidea
- Meliphagoidea
- Corvoidea

Menuroidea

- Atrichornithidae
- Menuridae

Atrichornithidae

(1/2)

Atrichornithidae



Atrichornis rufescens



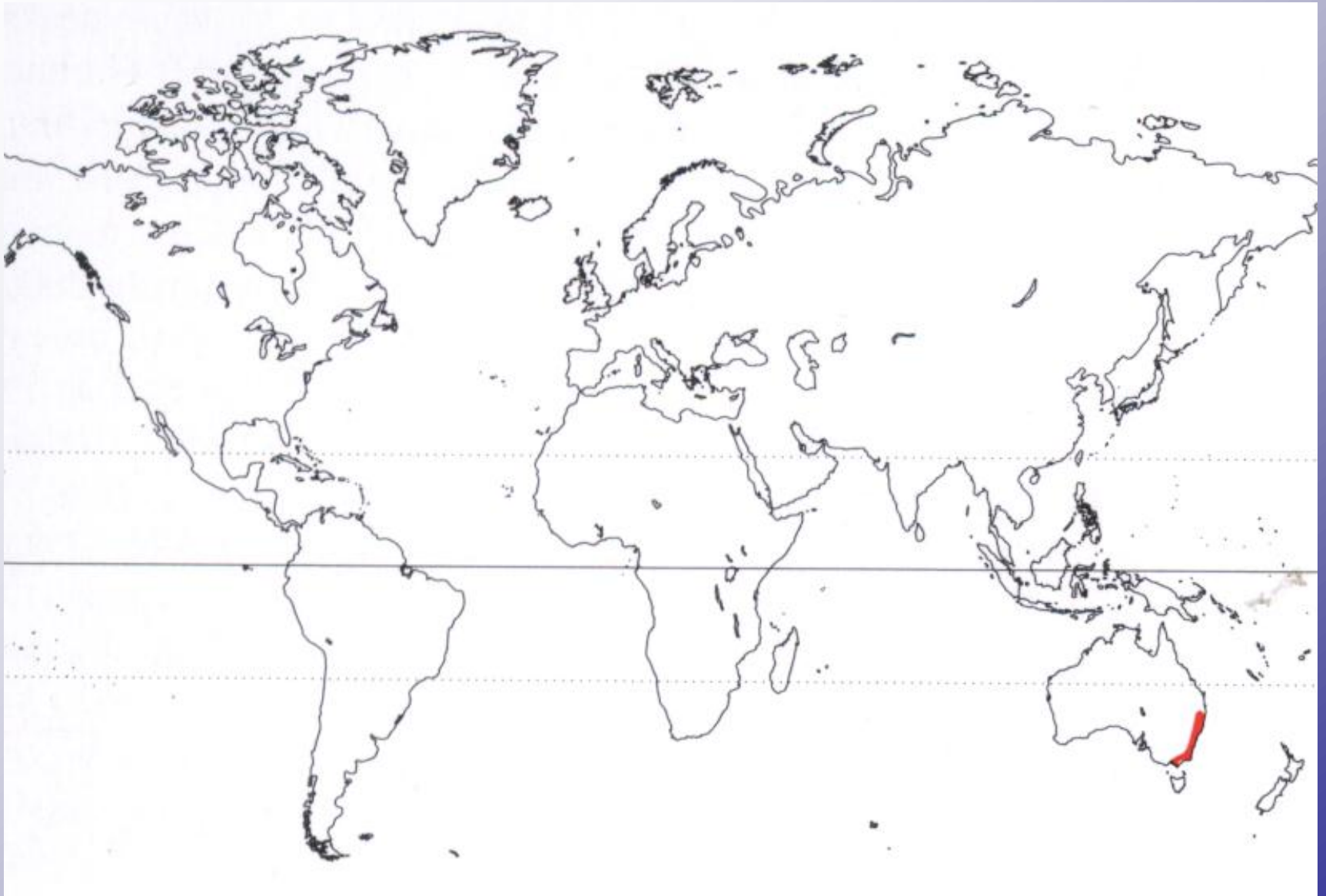
- Skoro nelétaví
- Chybí hamuli
- Inkubace 5 týdnů
- Gymnopaedická mláďata

Austrálie

Menuridae

(1/2)

Menuridae



Menura novaehollandiae



Austrálie

Vokální mimeze, monogamie

Video: www.arkive.org

Meliphagoidea

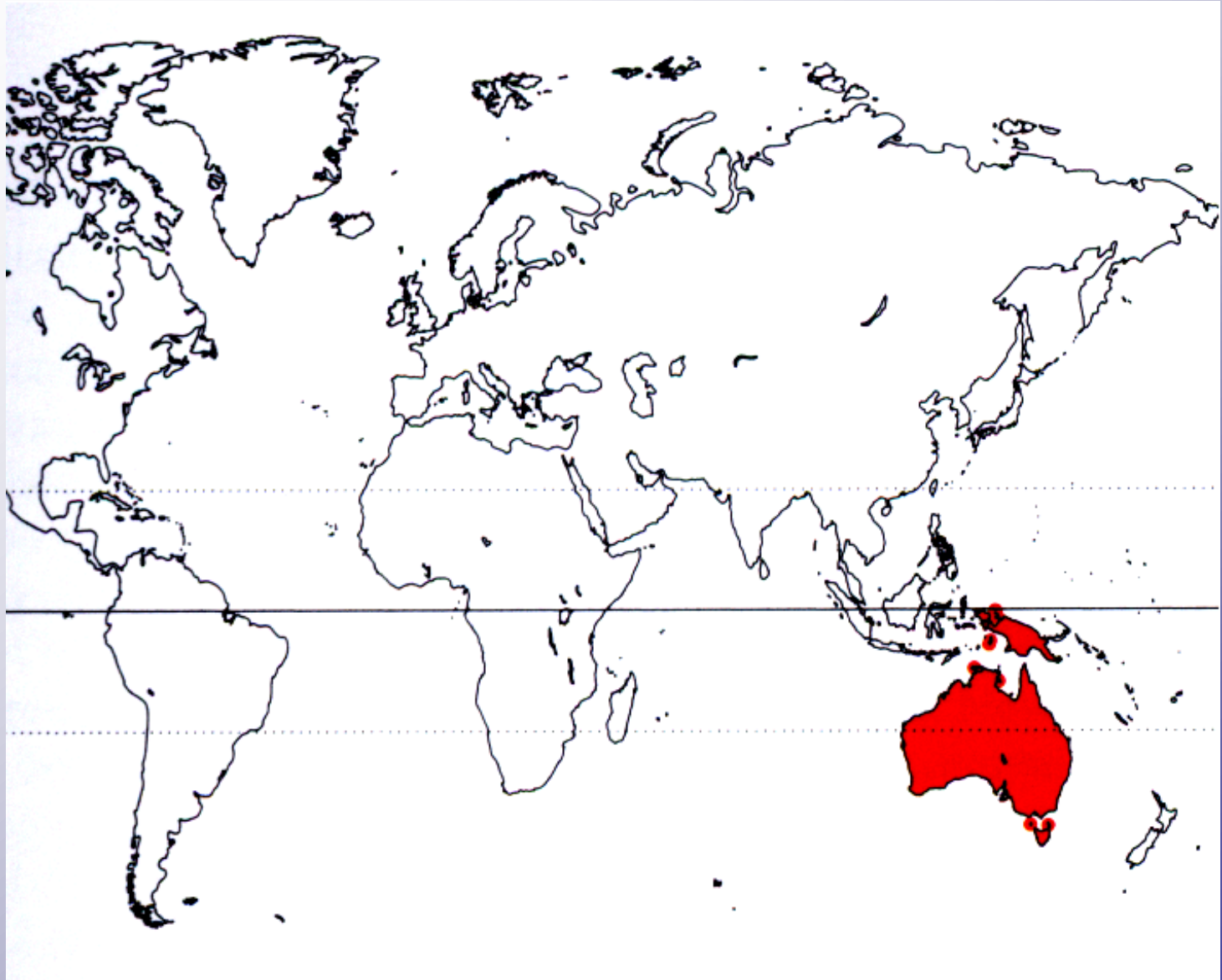
- Maluridae
- Meliphagidae
- Acanthizidae
- Pardalotidae
- Dasyornithidae

Maluridae

(4/24)

- sociální skupiny
- často kooperativní hnízdění

Maluridae



MALURIDAE

MALURINAE



fairy-wrens and emu-wrens

17 species

(*Sipodotus*, *Malurus*, *Clytomyias*,
Stipiturus)

AMYTORNITHINAE



grasswrens

10 species

(*Amytornis*)

FAMILY

SUBFAMILY

Amytornithinae

- aridní oblasti (skály)

Amytornis ballarae



Australie

Malurinae

- keřové porosty

Malurus cyaneus



Austrálie

harémy

Stipiturus malachurus



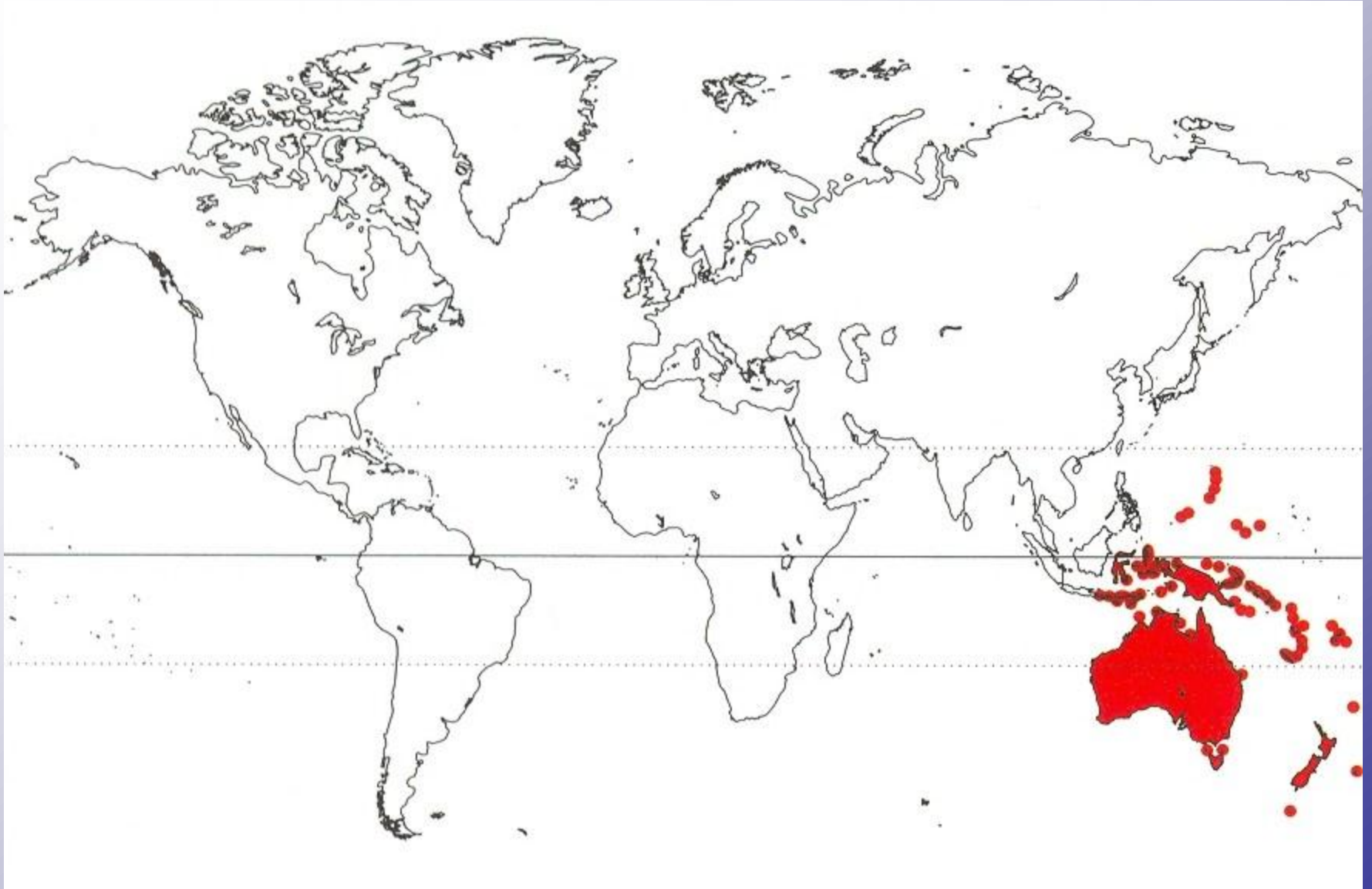
Australie

Meliphagidae

(39/172)

- kartáčky na konci jazyku (nektar)
- často duety
- často kooperativní hnízdění
- hnízdění soliterně v keřích
- některé druhy hnízdí koloniálně - *Manorina*

Meliphagidae



Lichmera indistincta



Australie, JV Asie

Myzomela rubrata



Australie

Meliphaga lewinii



Australie

Manorina melanocephala



Austrálie

koloniální

Entomyzon cyanotis



Australie

Philemon buceroides



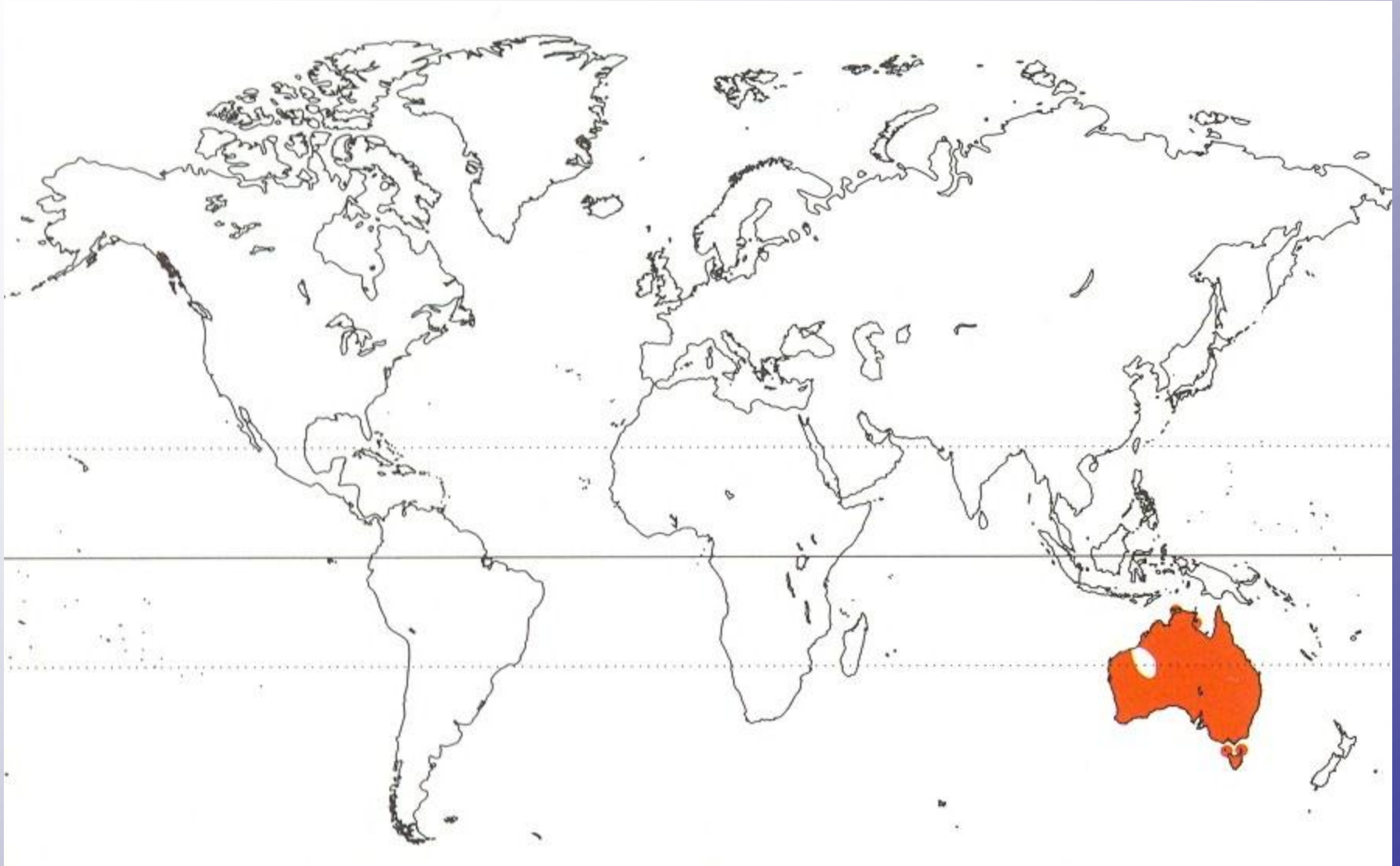
Australie, PNG

Pardalotidae

(1/4)

- občas kooperativní hnízdění
- hnízdí v norách (sami je vyhrabou) nebo v dutinách
- eukalyptové lesy

Pardalotidae



Pardalotus punctatus



Australie

Pardalotus striatus

Kooperativní hnízdění

Austrálie

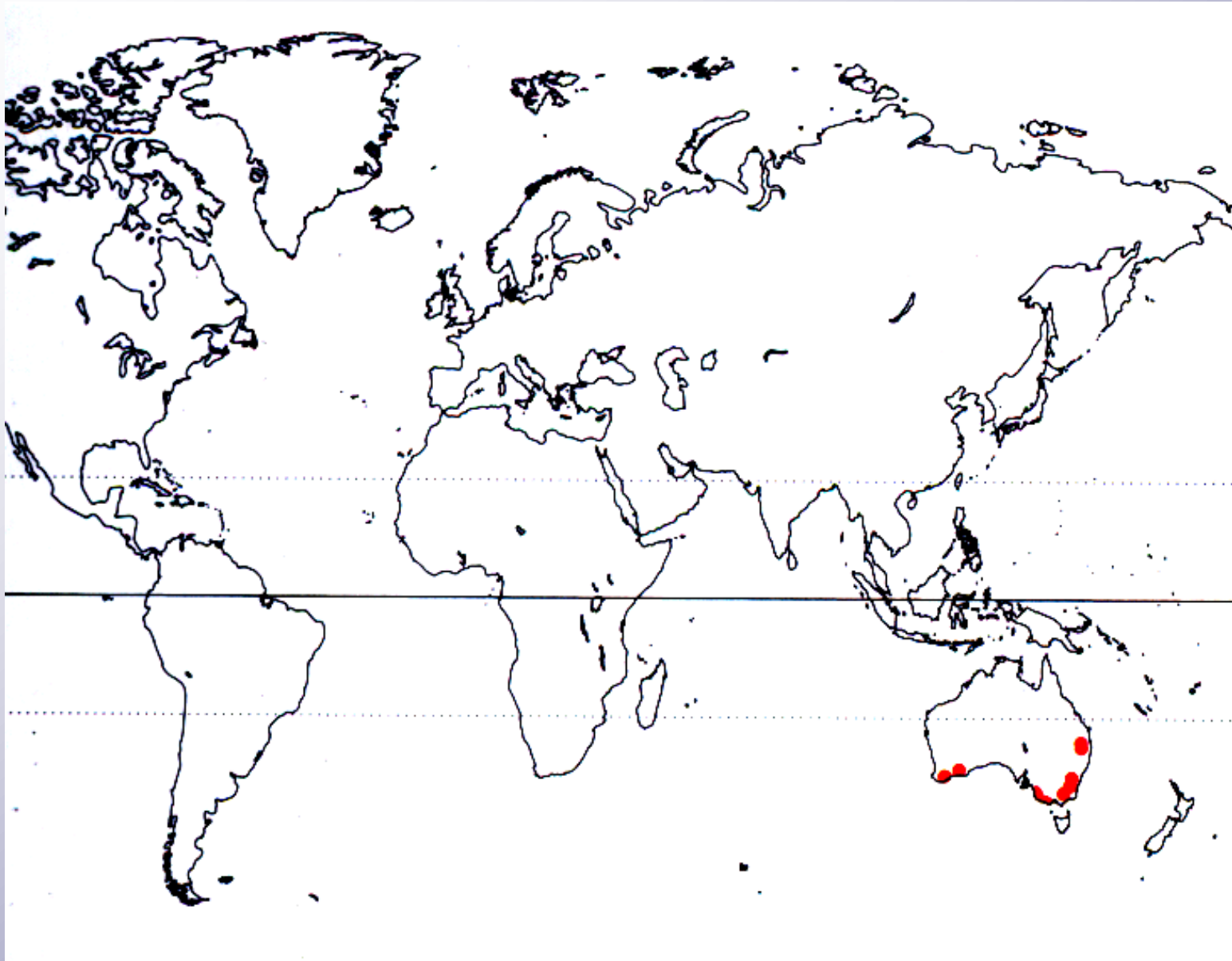


Dasyornithidae

(1/3)

- stětinky u zobáku
- převážně pozemní

Dasyornithidae



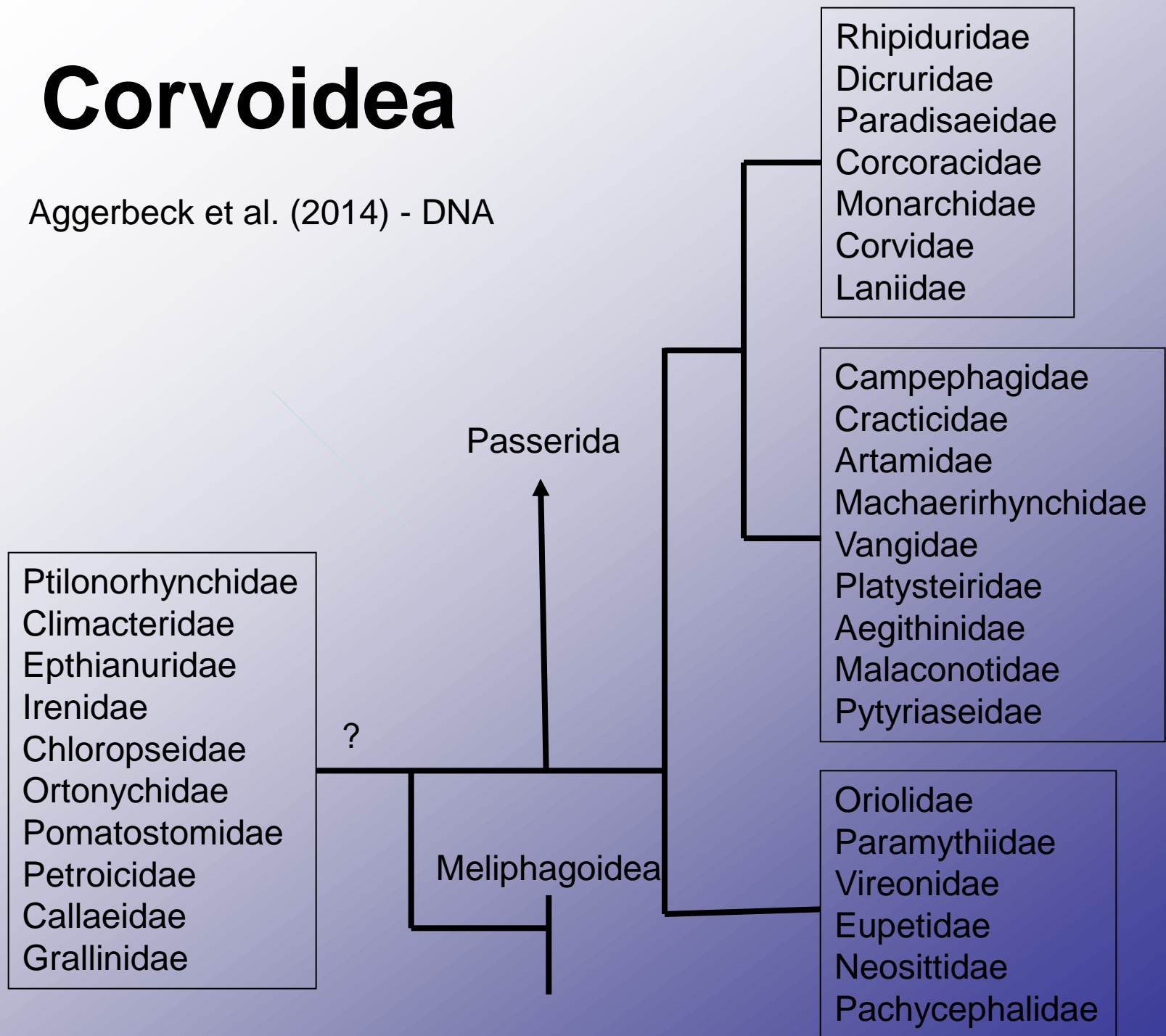
Dasyornis broadbenti



Australie

Corvoidea

Aggerbeck et al. (2014) - DNA

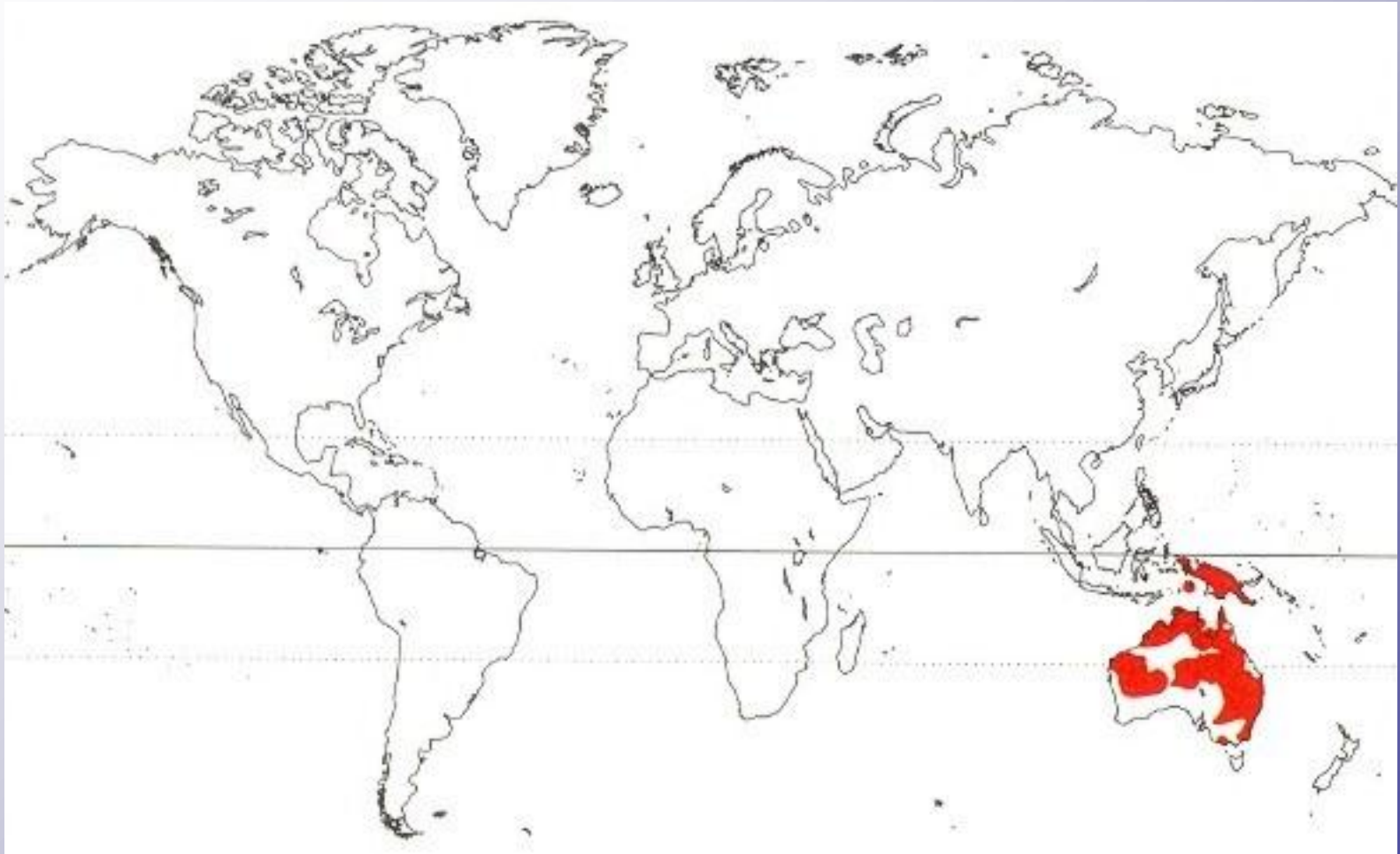


Ptilonorhynchidae

(8/18)

- druhově specifická loubí
- častá polygynie

Ptilonorhynchidae



Ailureodus bucoides



Austrálie

Monogamní

Amblyornis inornata

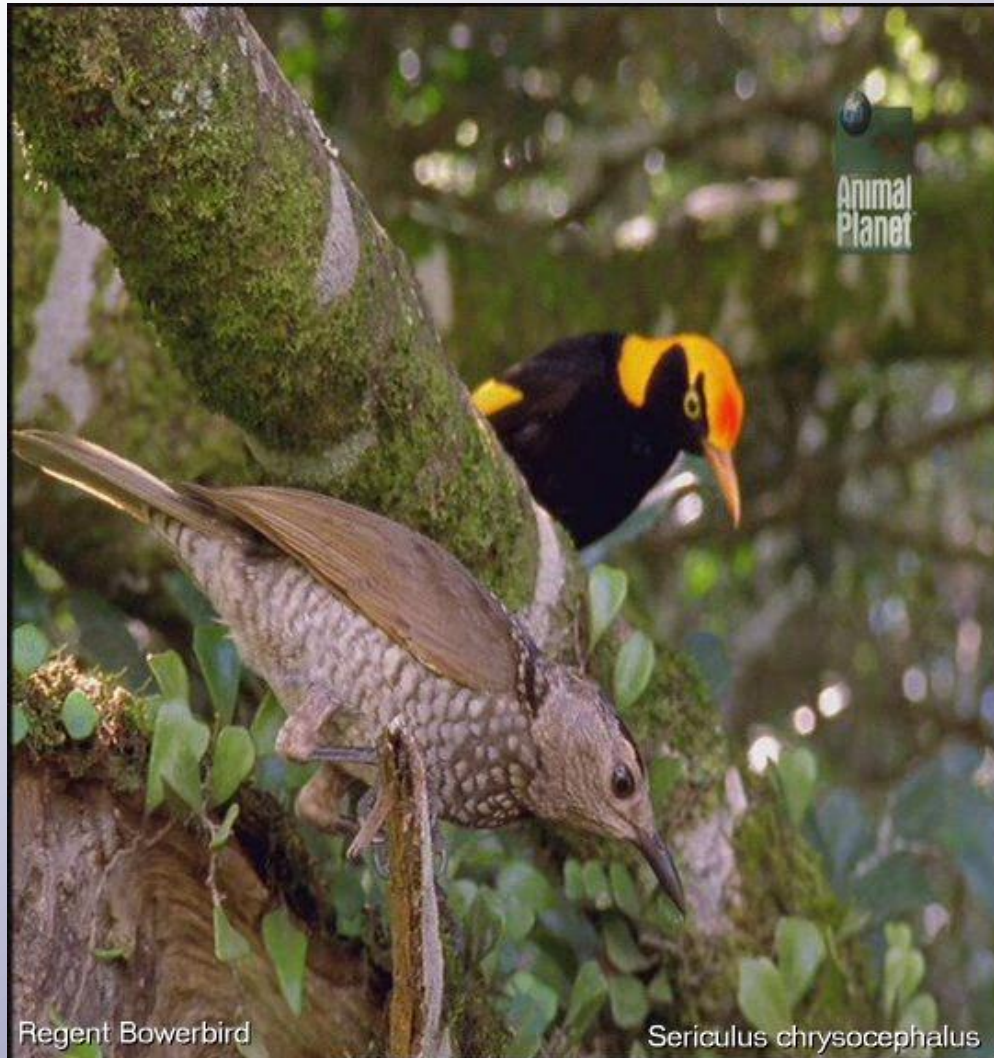


Austrálie

Amblyornis inornata



Sericulus chrysocephalus



Australie

Ptilonorhynchus violaceus



Australie

Ptilonorhynchus violaceus



Chlamydera nuchalis



Australie

Chlamydera nuchalis



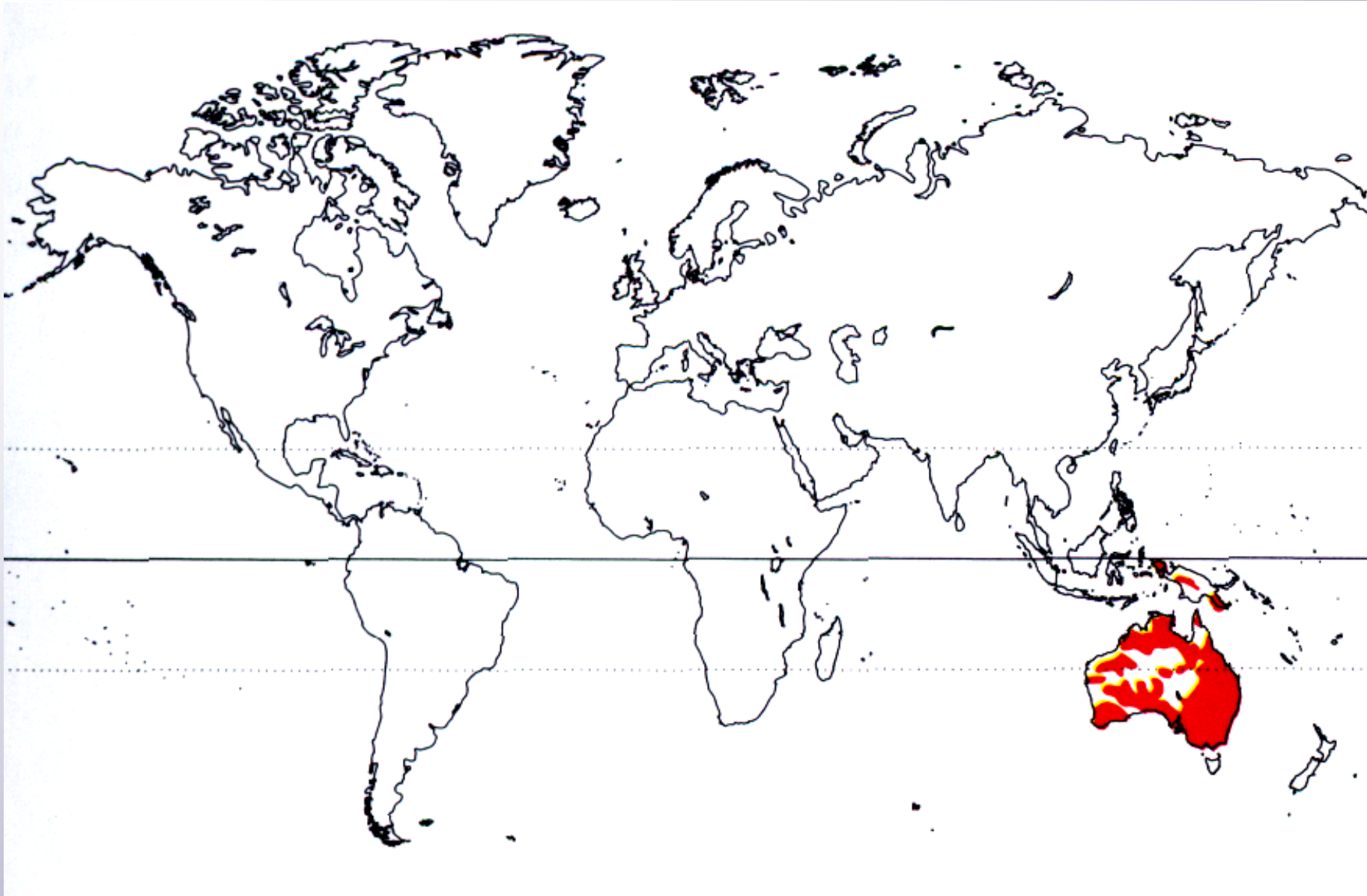
Australie

Climacteridae

(2/7)

- hnízdí v dutinách
- chemická obrana (potírání kůry stromu hmyzem – rušení pachových stop predátorů)

Climacteridae



Climacteris picumnus



Austrálie

Kooperativní hnízdění

*Cormobates
phoeniceus*

Nehnízdí
kooperativně

Austrálie

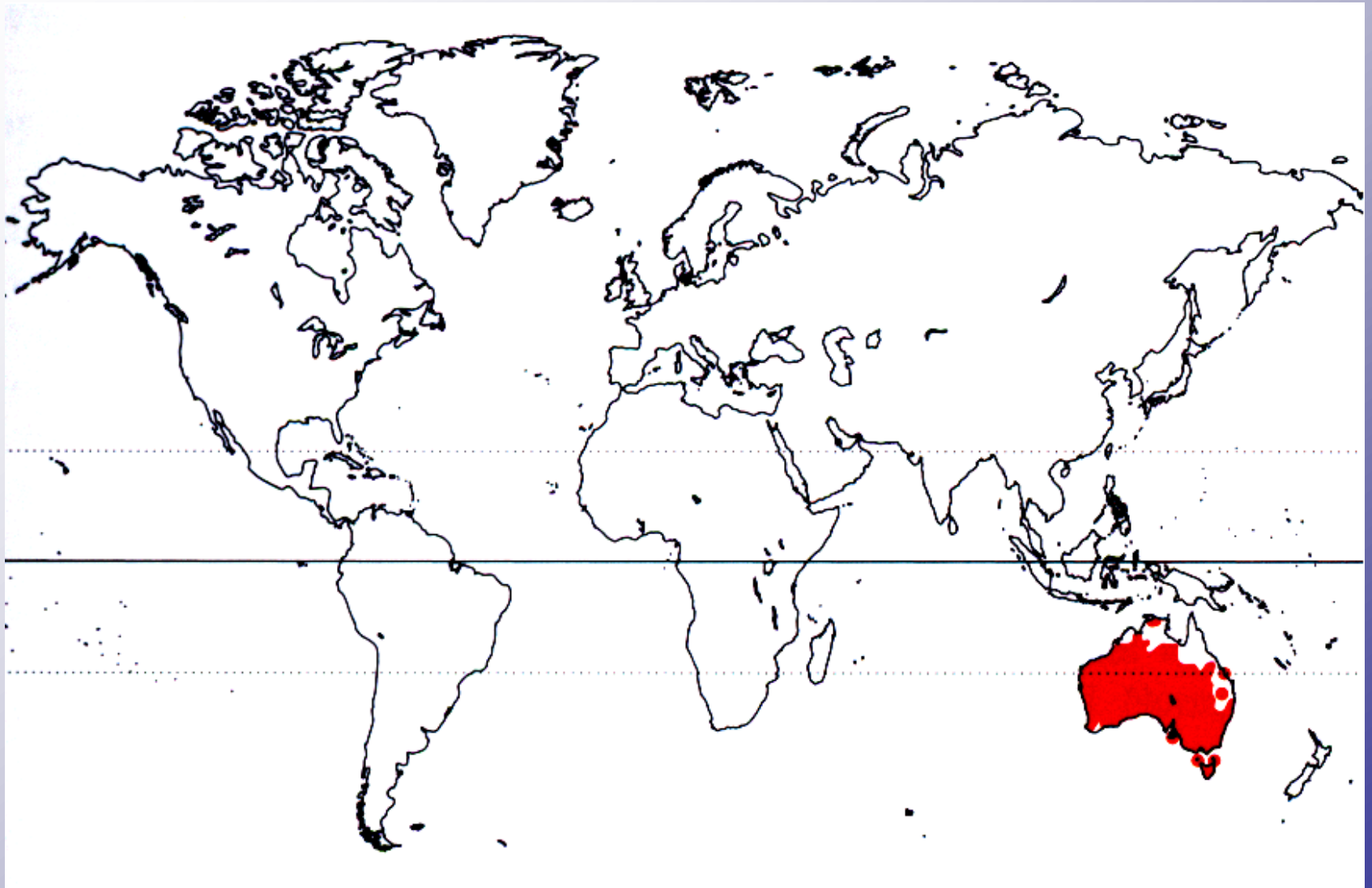


Epthianuridae

(2/5)

- kartáčky na konci jazyku (nektar)
- aridní oblasti

Ephianuridae



Euphianura tricolor

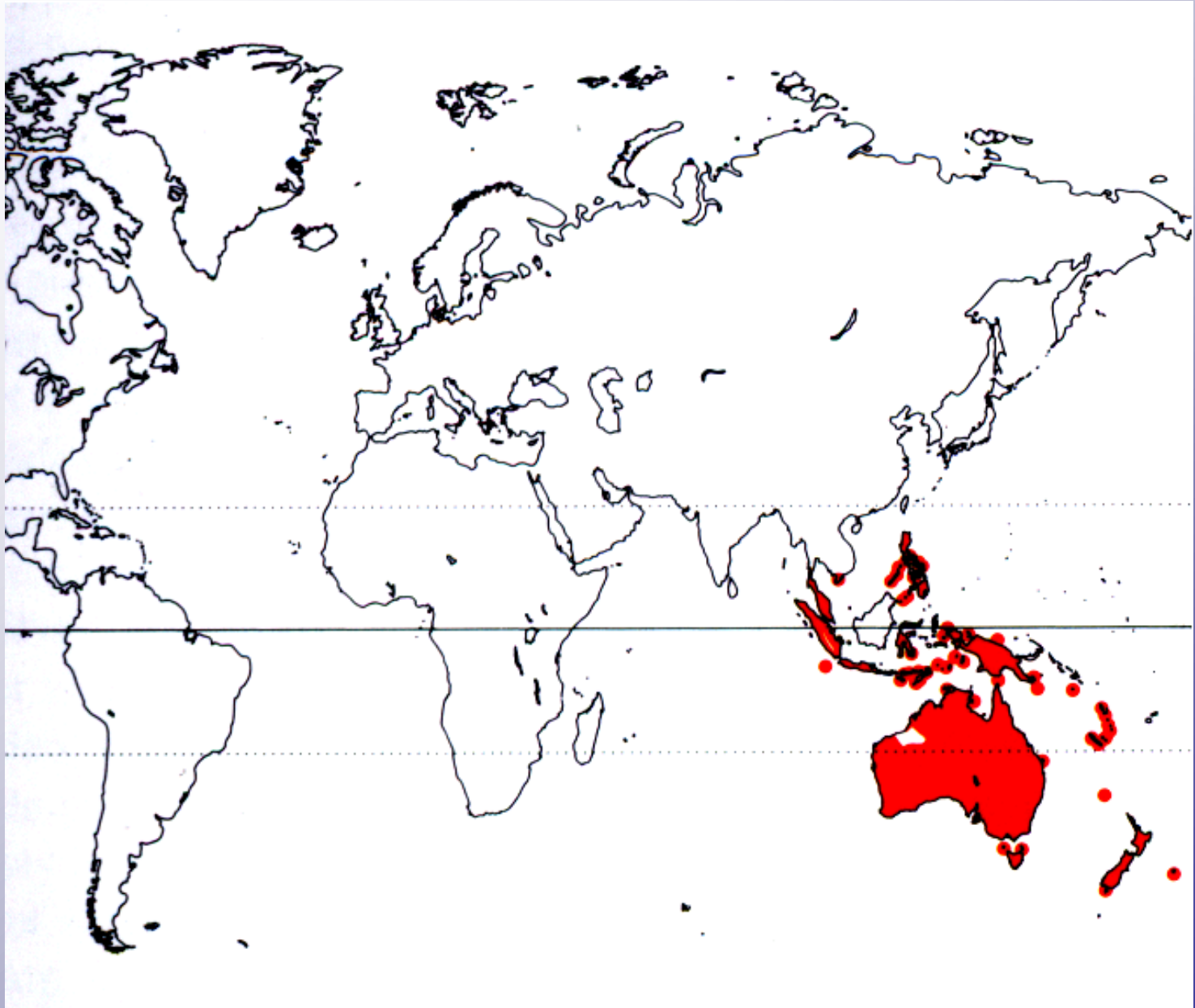


Australie

Acanthizidae

(14/63)

Acanthizidae



ACANTHIZIDAE

SERICORNITHINAE



scrubwrens and allies

27 species

(*Pycnoptilus*, *Origma*, *Oreoscopus*,
Crateroscelis, *Sericornis*,
Acanthornis, *Hylacola*,
Calamanthus, *Pyrrholaemus*,
Chthonicola)

ACANTHIZINAE



thornbills and gerygones

36 species

(*Smicromnis*, *Gerygone*, *Acanthiza*,
Aphelocephala)

FAMILY

SUBFAMILY

Sericornis frontalis



Austrálie

kooperativní hnízdění

Gerygone olivacea



Australie

Acanthiza pusilla



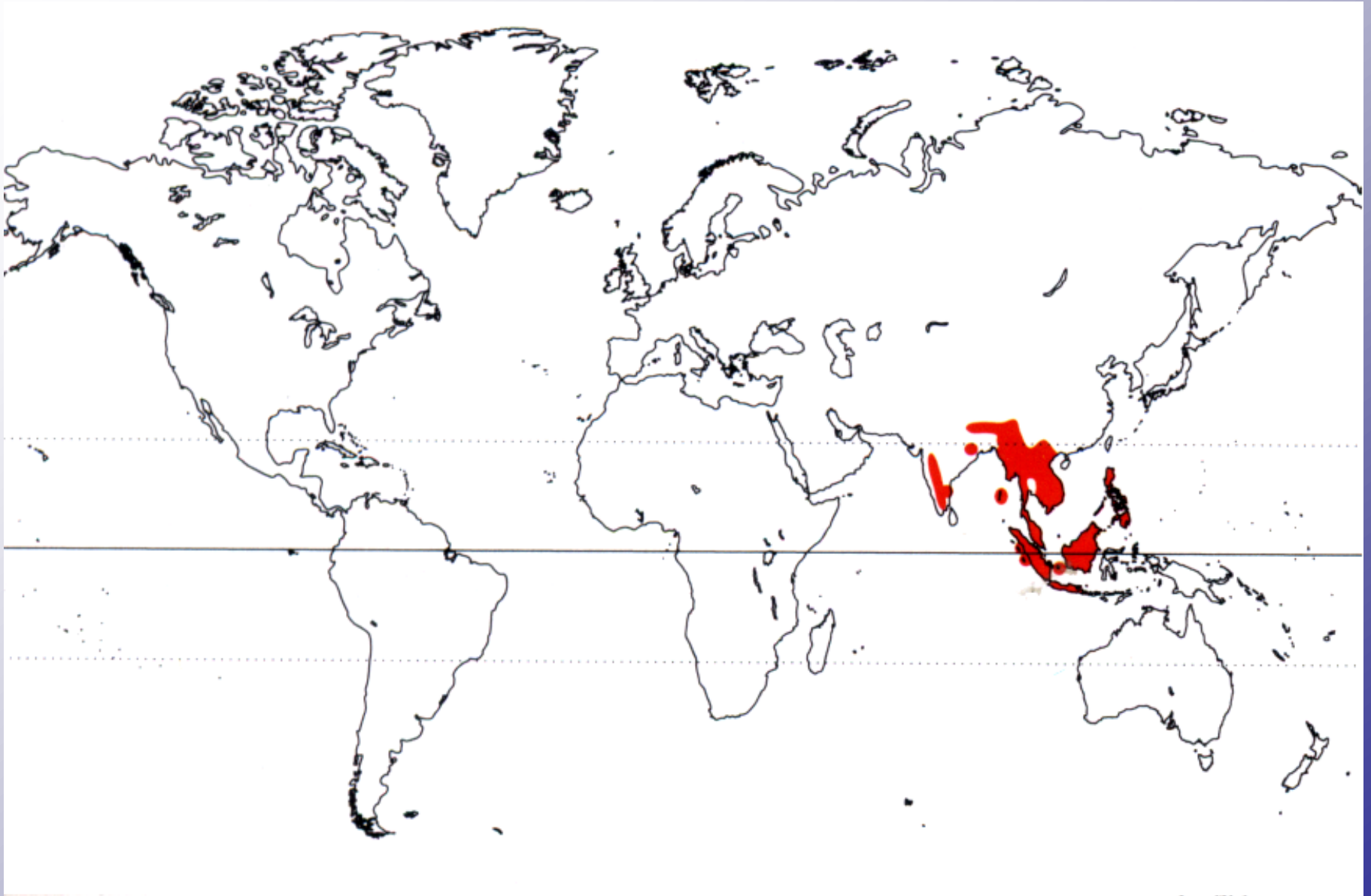
Australie

Irenidae

(1/2)

- primární lesy

Irenidae



Irena puella



Asian Fairy Bluebird (*Irena puella*)

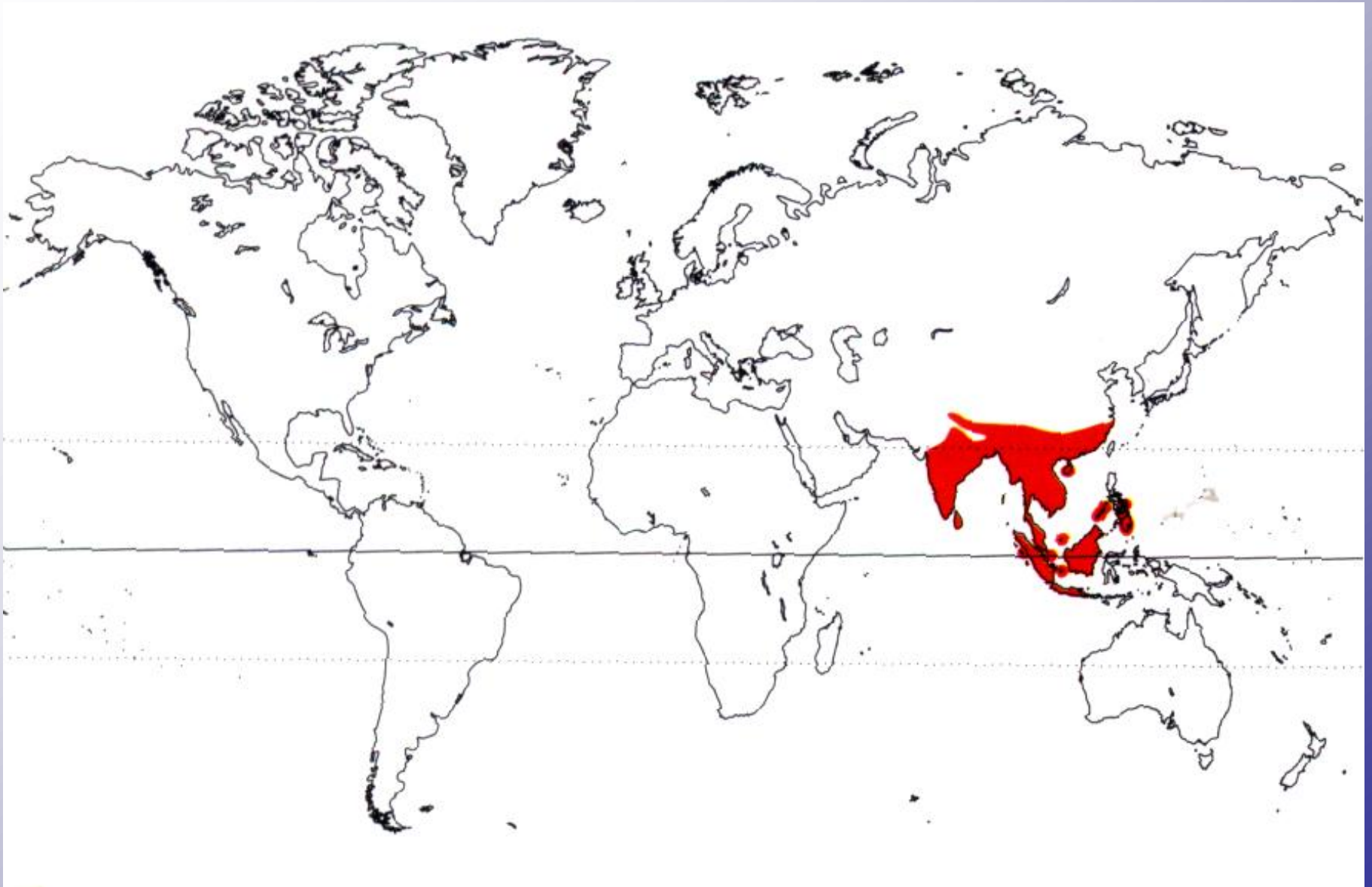
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Asie

Chloropseidae

(1/11)

Chloropseidae



*Chloropsis
hardwicki*



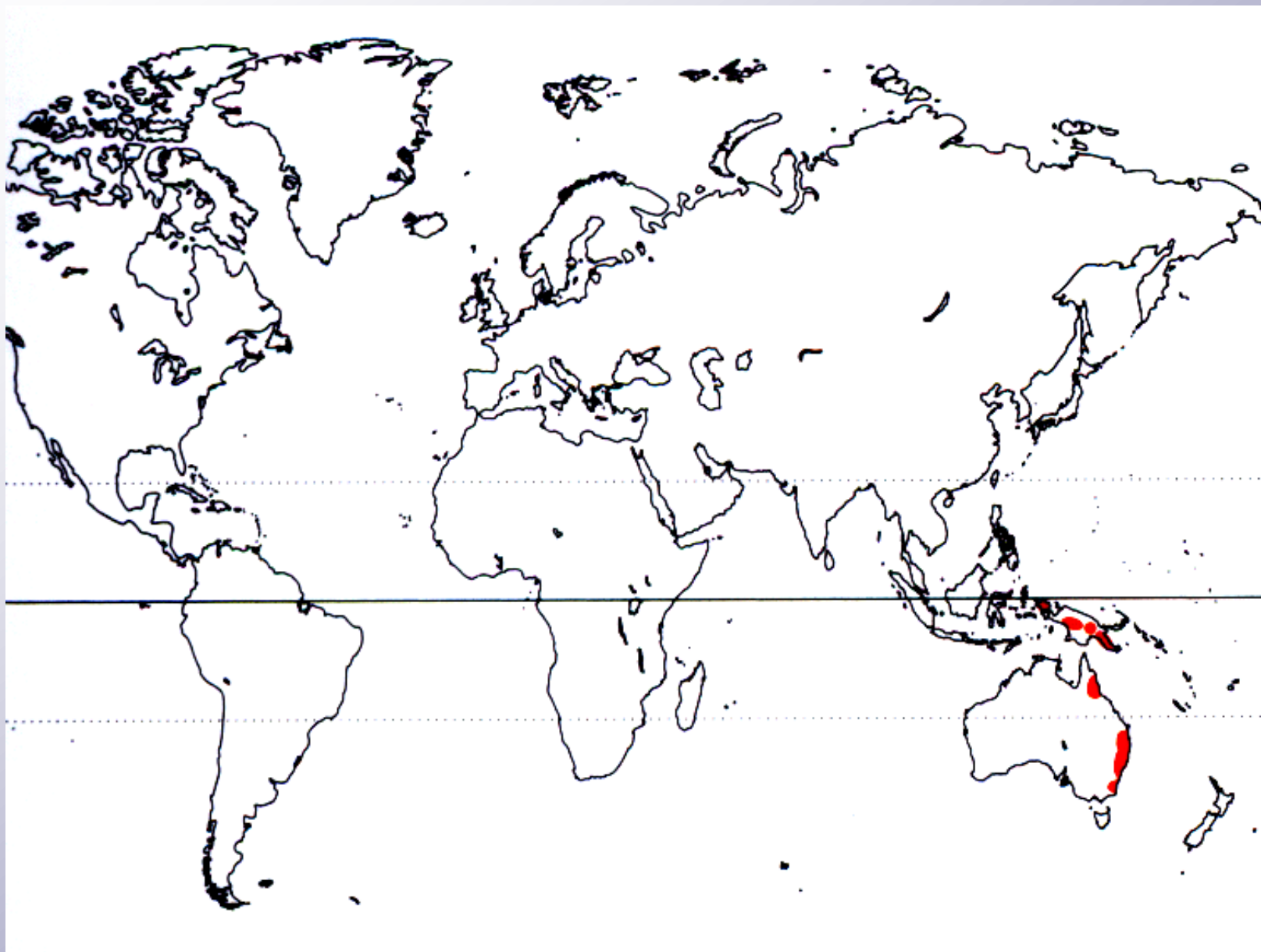
JV Asie

Orthonychidae

(1/3)

- primární les
- pozemní - loví hmyz v hrabance
- „kooperativní hnízdění“

Orthonychidae



Orthonyx temminckii



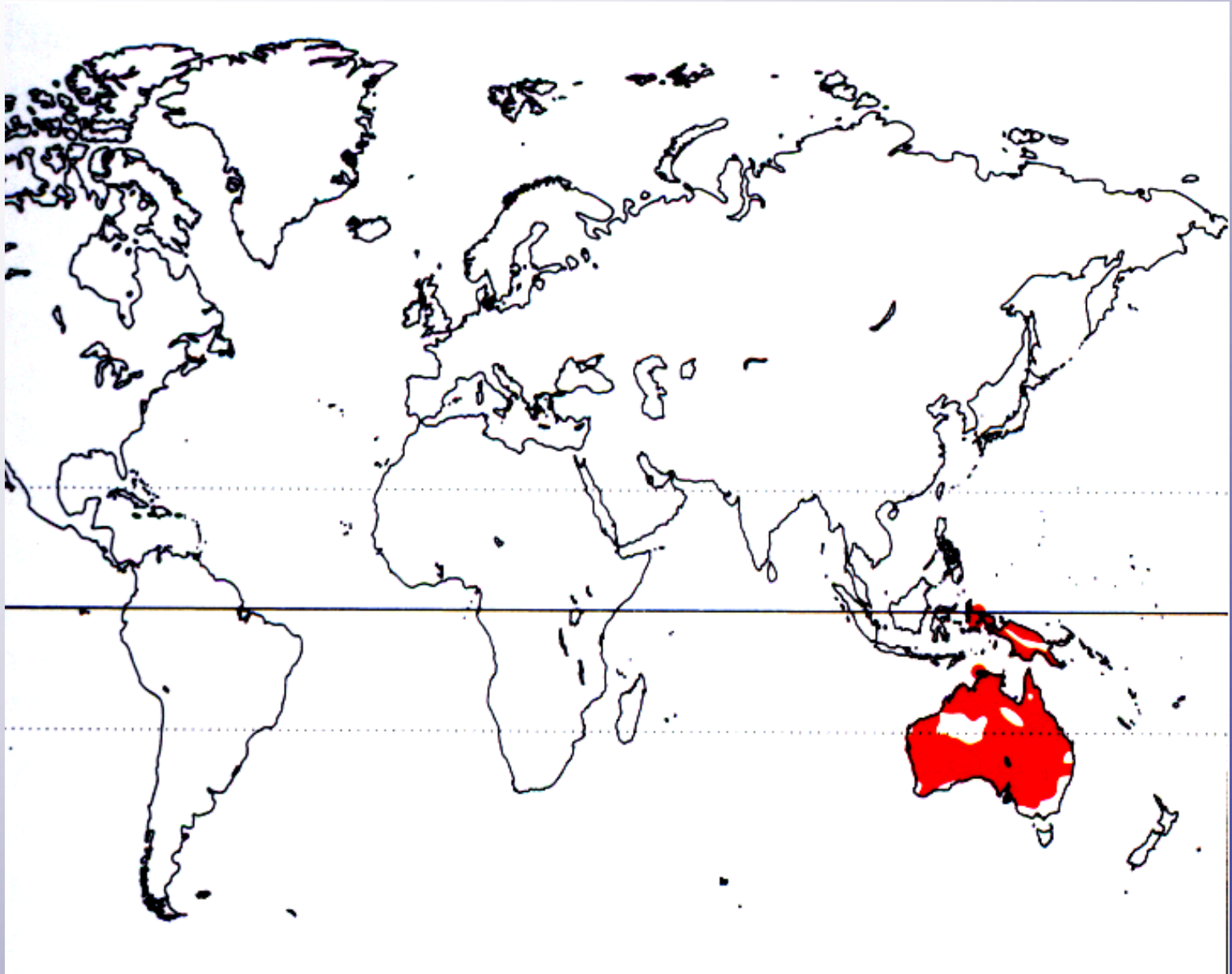
Australie

Pomatostomidae

(1/5)

- sociální skupiny
- kooperativní hnízdění

Pomatostomidae



Pomatostomus temporalis



Australie

Pomatostomus temporalis



Pomatostomus superciliosus



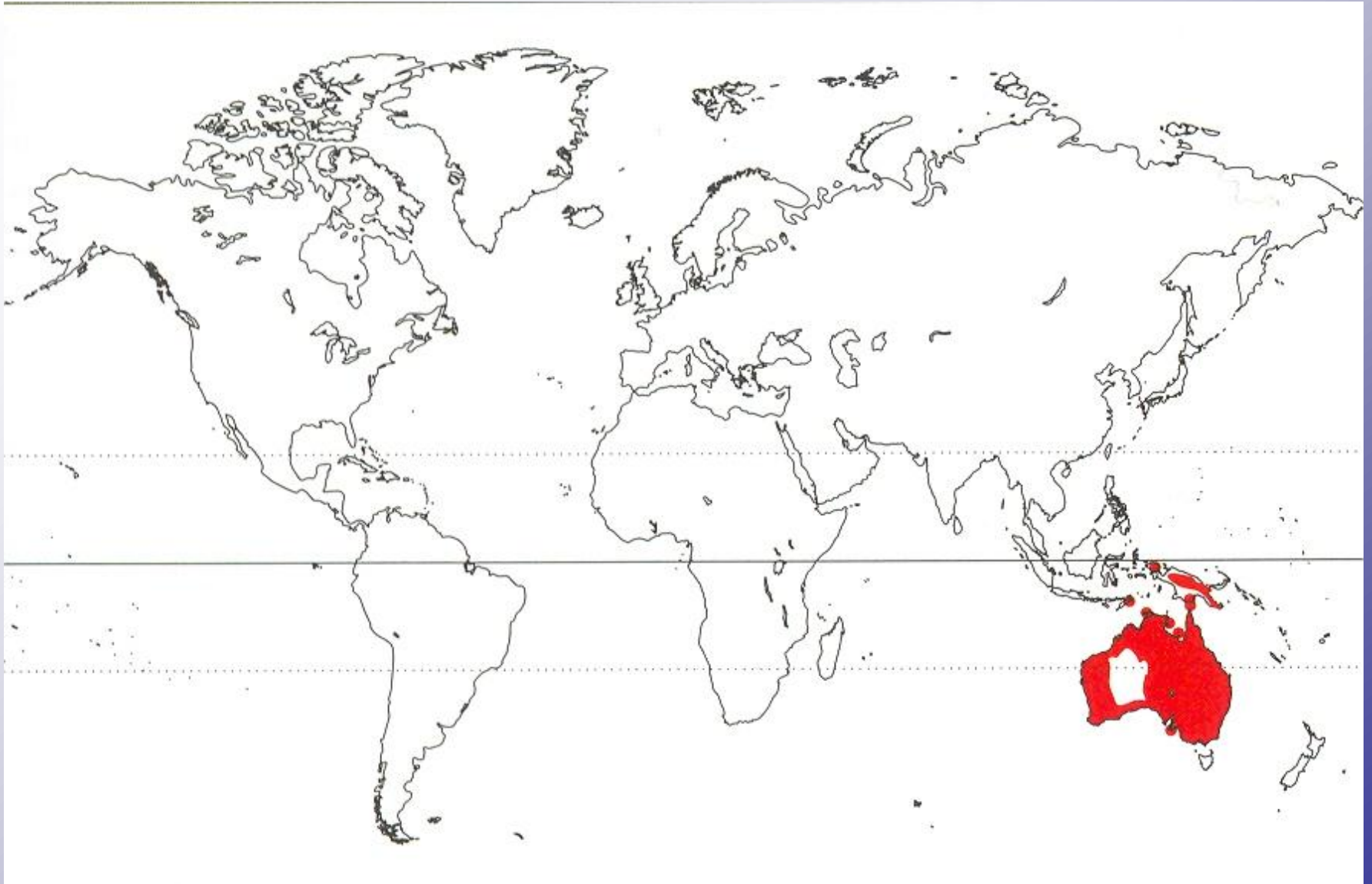
Australie

Grallinidae

(1/2)

- monogamní (dlouhotrvající svazky)
- hnízdo z bláta

Grallinidae



Grallina cyanoleuca



Australie

Grallina cyanoleuca

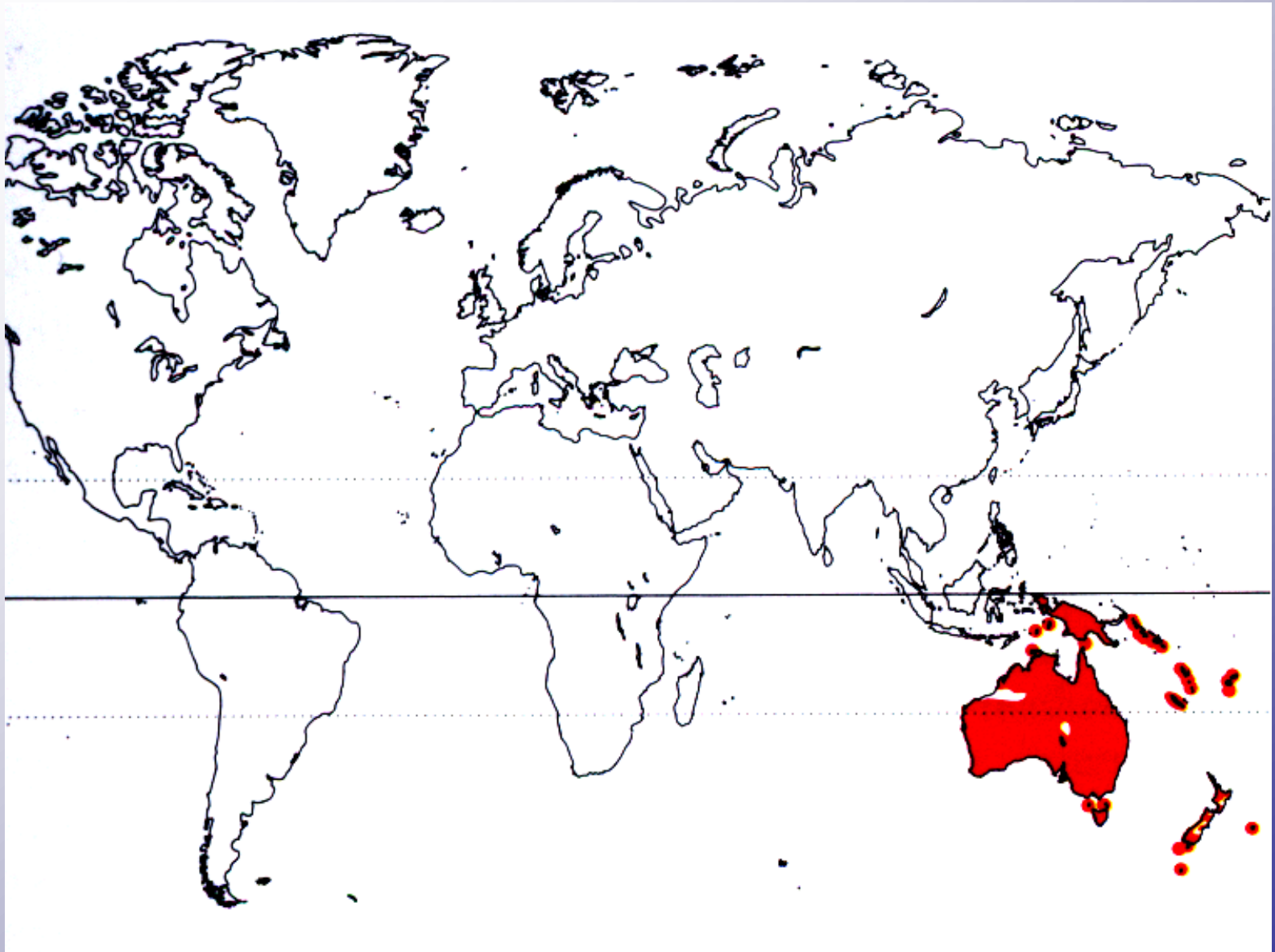


Petroicidae

(14/46)

- kooperativní hnízdění nebo monogamní s dlouhotrvajícími svazky
- primárně lesní ptáci

Petroicidae



PETROICIDAE

DRYMODINAE



thrush-like robins
4 species
(*Amalocichla*, *Drymodes*)

PETROICINAE



spot-fronted robins and
allies
21 species
(*Pachycephalopsis*, *Eugerygone*,
Petroica, *Microeca*, *Monachella*)

EOPSALTRIINAE



yellow robins and allies
21 species
(*Heteromyias*, *Poecilodryas*,
Tregellasia, *Eopsaltria*, *Peneoenanthe*,
Peneothello, *Melanodryas*)

FAMILY

SUBFAMILY

Eopsaltria australis



Australie

Eopsaltria georgiana



Australie

Petroica phoenicea



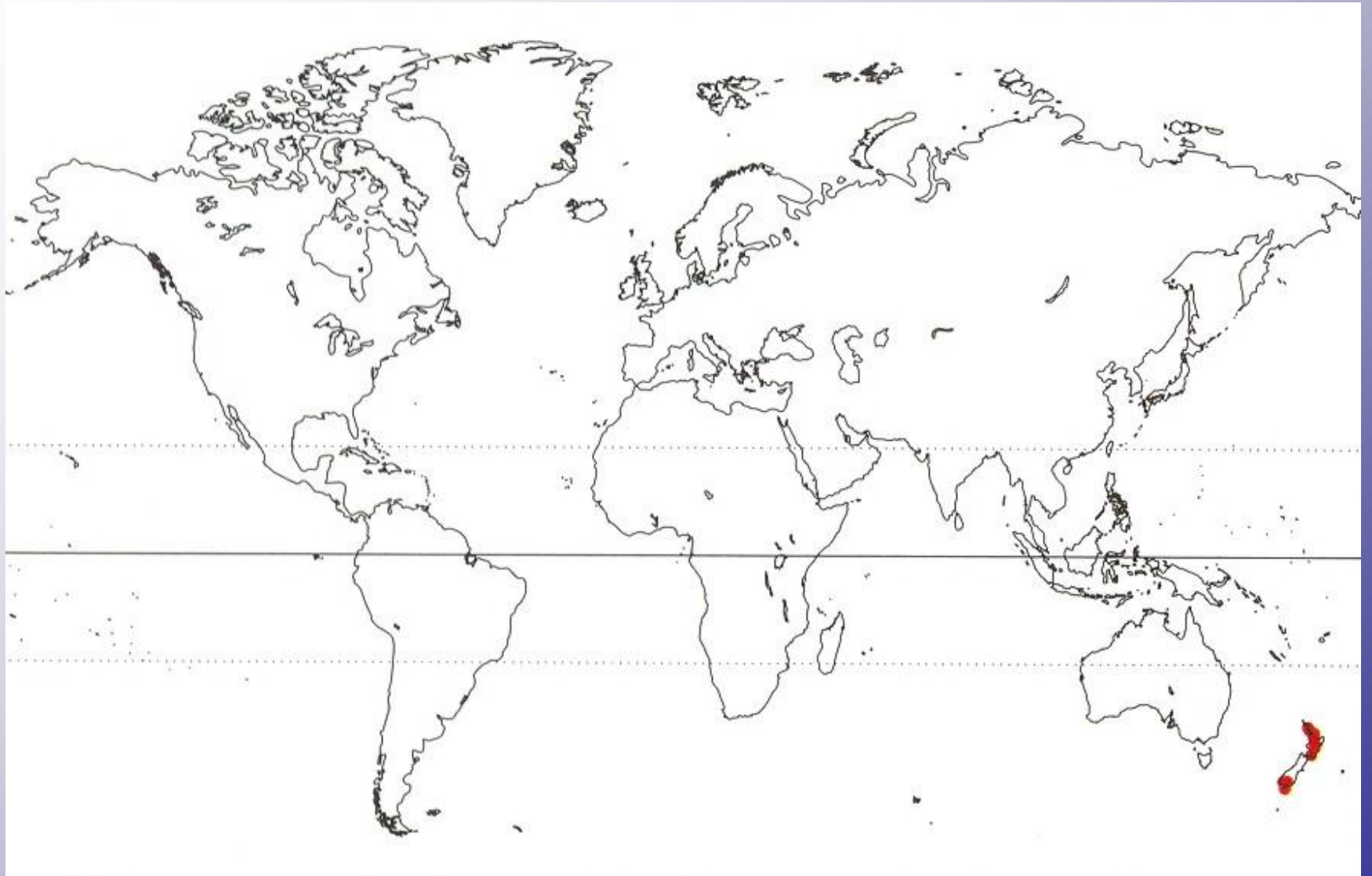
Australie

Callaeidae

(3/3)

- primárně lesní, dnes i v sekundárních biotopech
- solitérní
- monogamní s dlouhotrvajícími svazky

Callaeidae



Callaeas cinerea



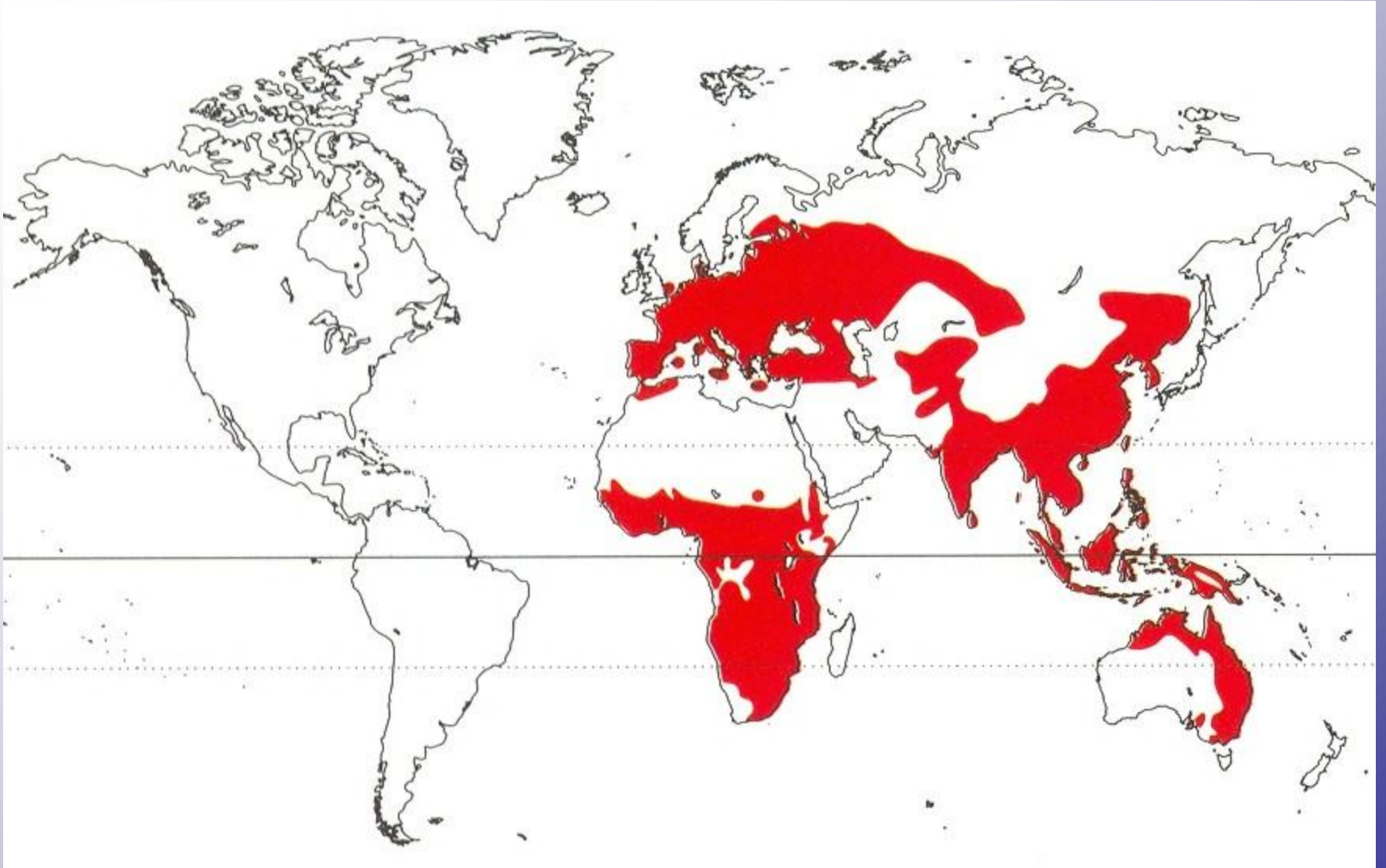
Nový Zéland

Oriolidae

(2/25)

- solitérní
- vyšší patra lesa

Oriolidae



Oriolus oriolus



Afrika - Asie

Oriolus chinensis



© - lubomir hlasek
www.hlasek.com
Oriolus chinensis 8737

Asie - Austrálie

Oriolus chinensis



© - josef hlasek
www.hlasek.com
Oriolus chinensis 8744

Oriolus auratus



Afrika

Sphecotheres viridis



Australie

Sphecotheres viridis

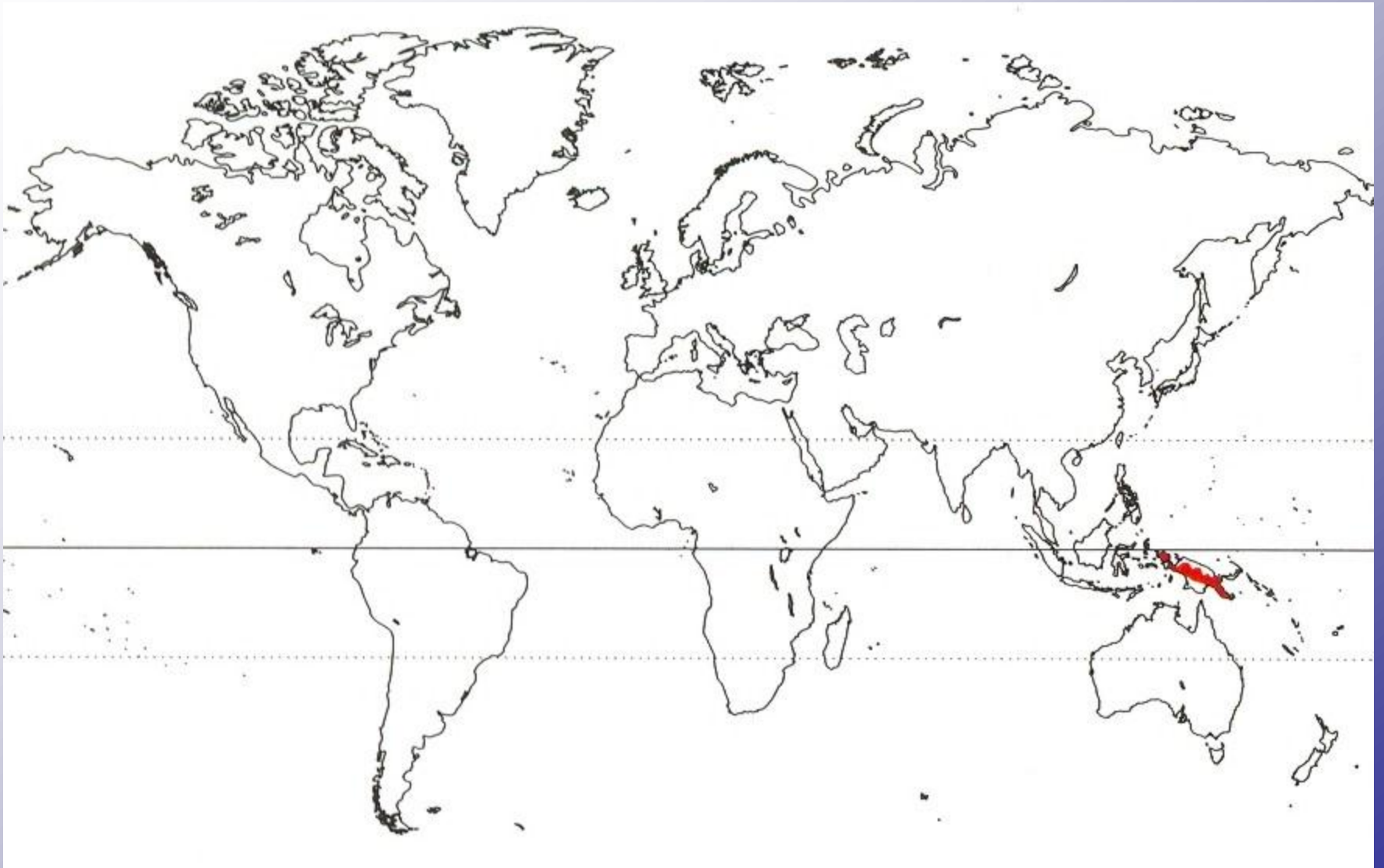


Paramythiidae

(2/2)

- plodožraví
- horské lesy
- solitérní

Parathmyiidae



Paramythia montium

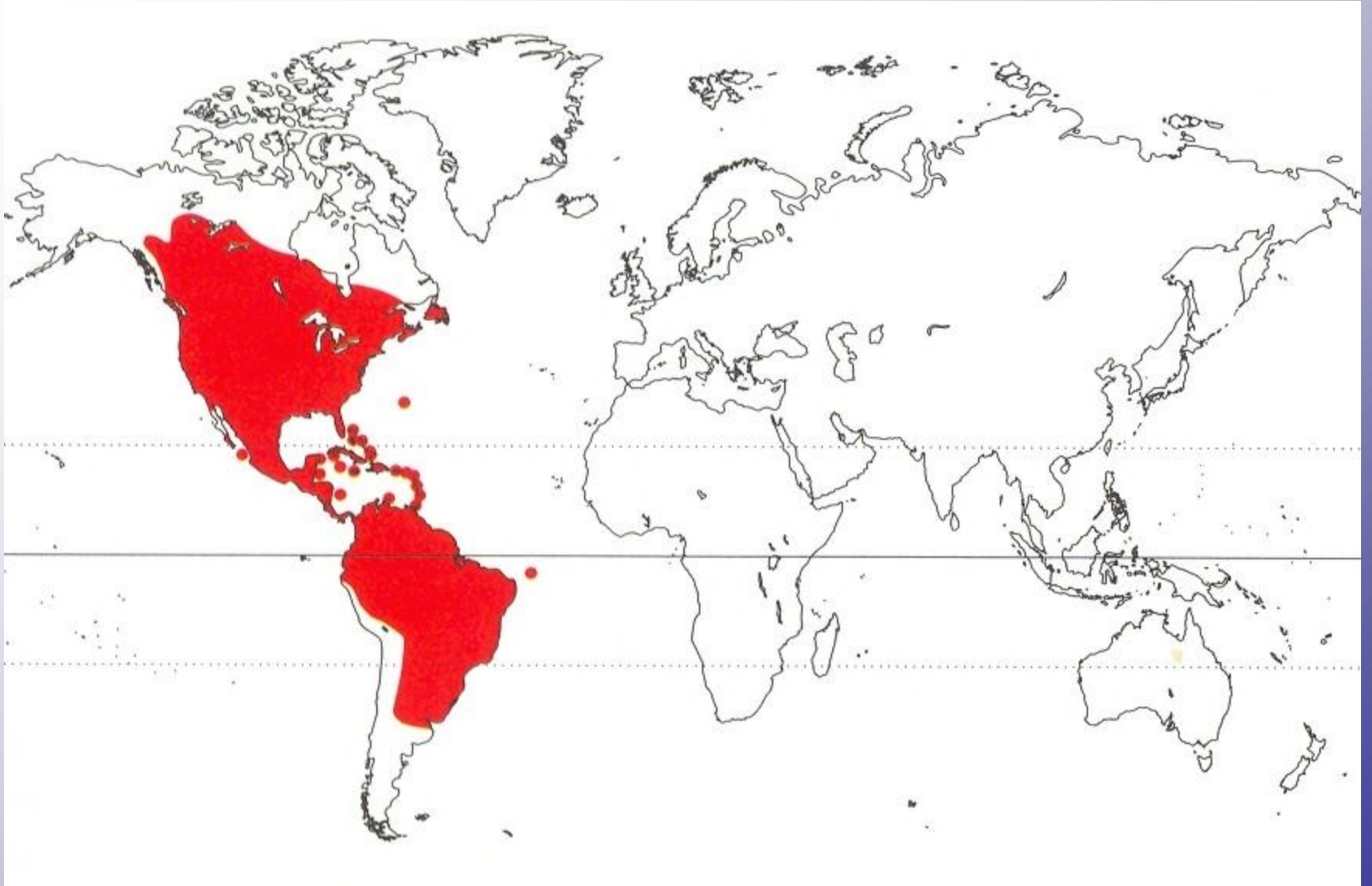


JV Asie - PNG

Vireonidae

(4/47)

Vireonidae



Vireolanius leucotis



J. Amerika

Vireo solitarius



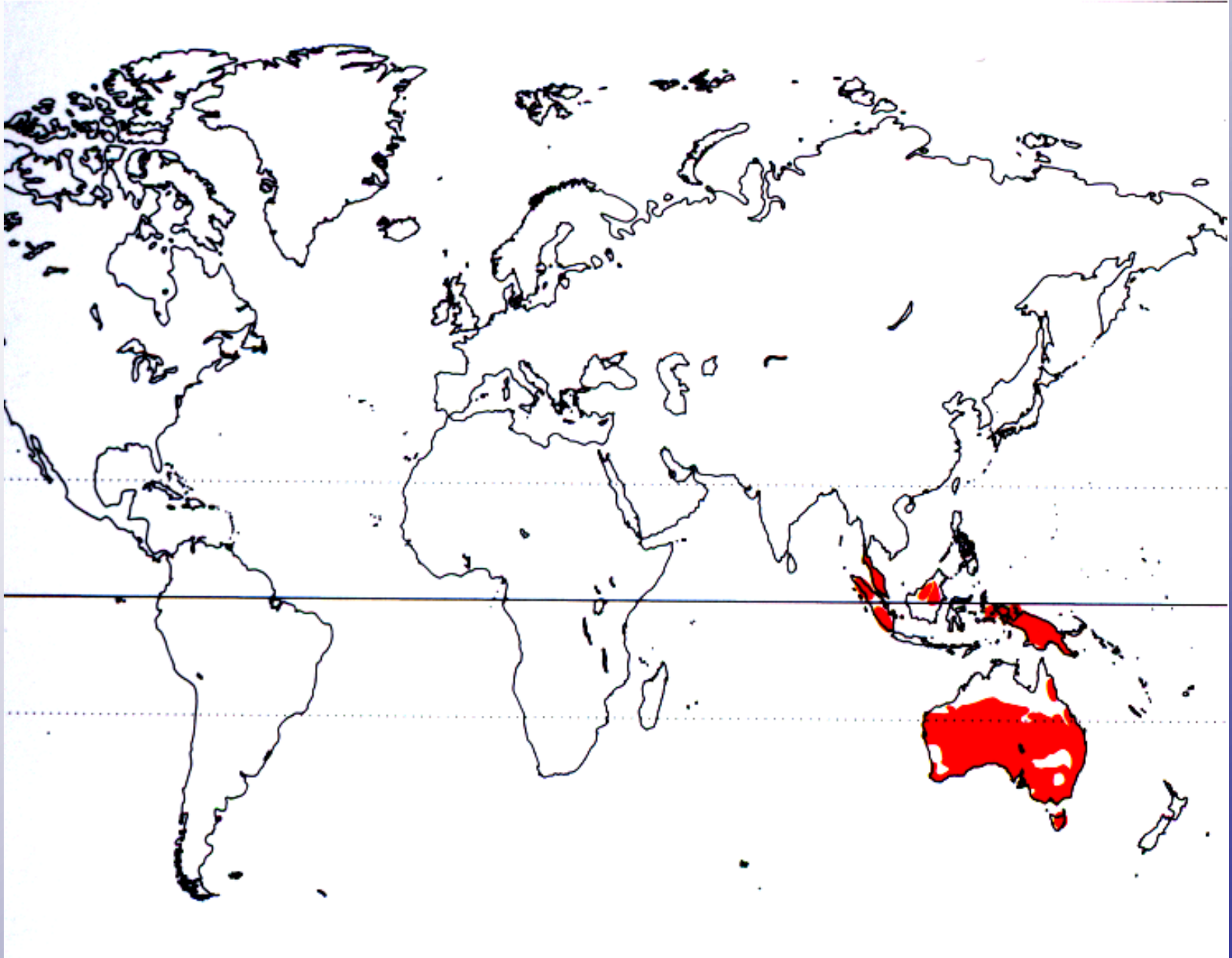
Nový Svět

Eupetidae

(7/18)

- lesní
- převážně pozemní

Eupetidae



Psophodes olivaceus



Australie

Cinclosoma punctatum

Spotted Quail-thrush
© Geoff Jones 2014
barraimaging.com.au



Australie

Ptilorrhoa caerulescens



Papua - Nová Guinea

Ifrita kowaldi



Papua - Nová Guinea

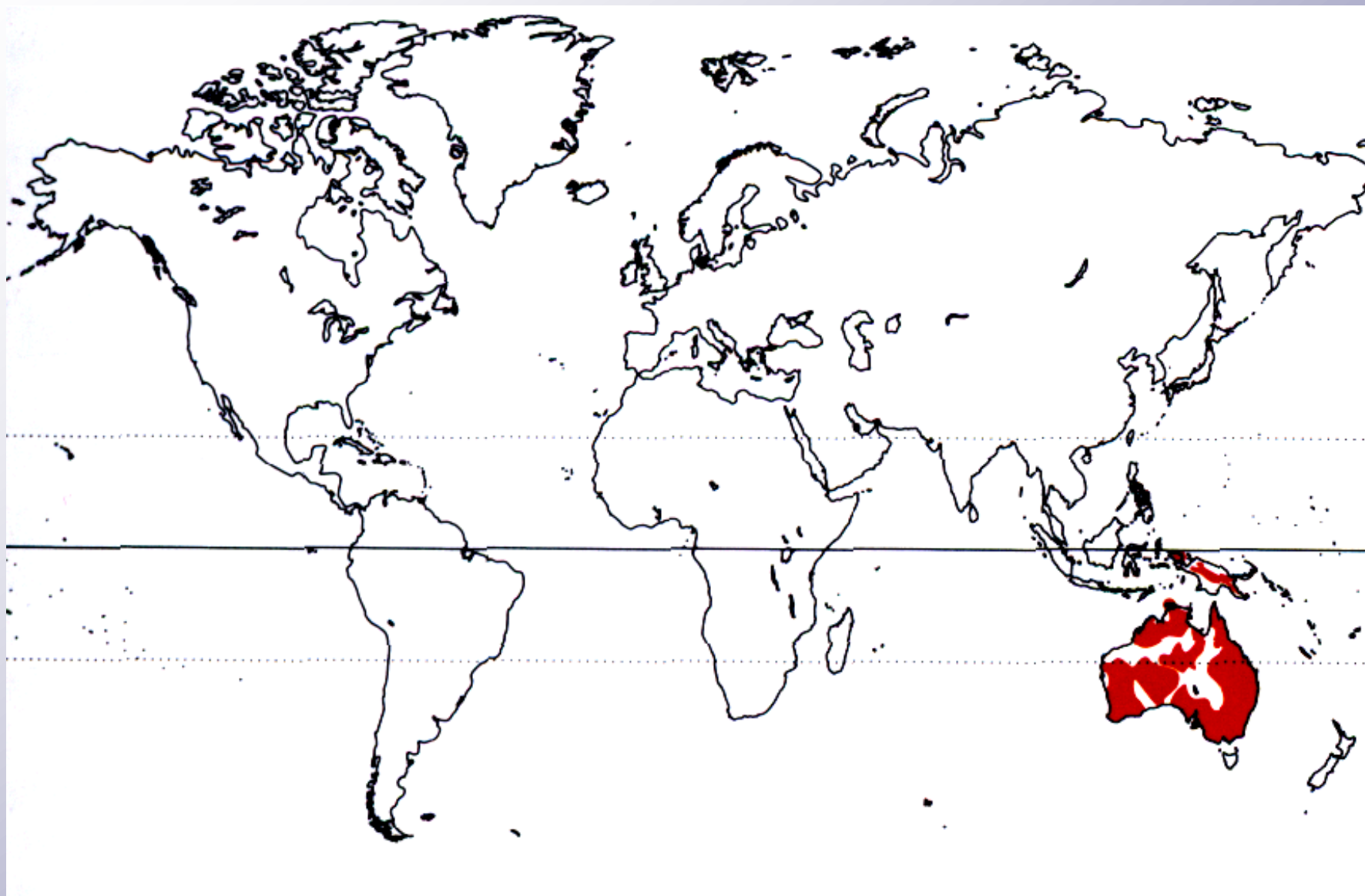
Pozemní-arboreální

Neosittidae

(1/2)

- arboreální
- kooperativní hnízdění

Neosittidae





*Daphoenositta
chrysoptera*

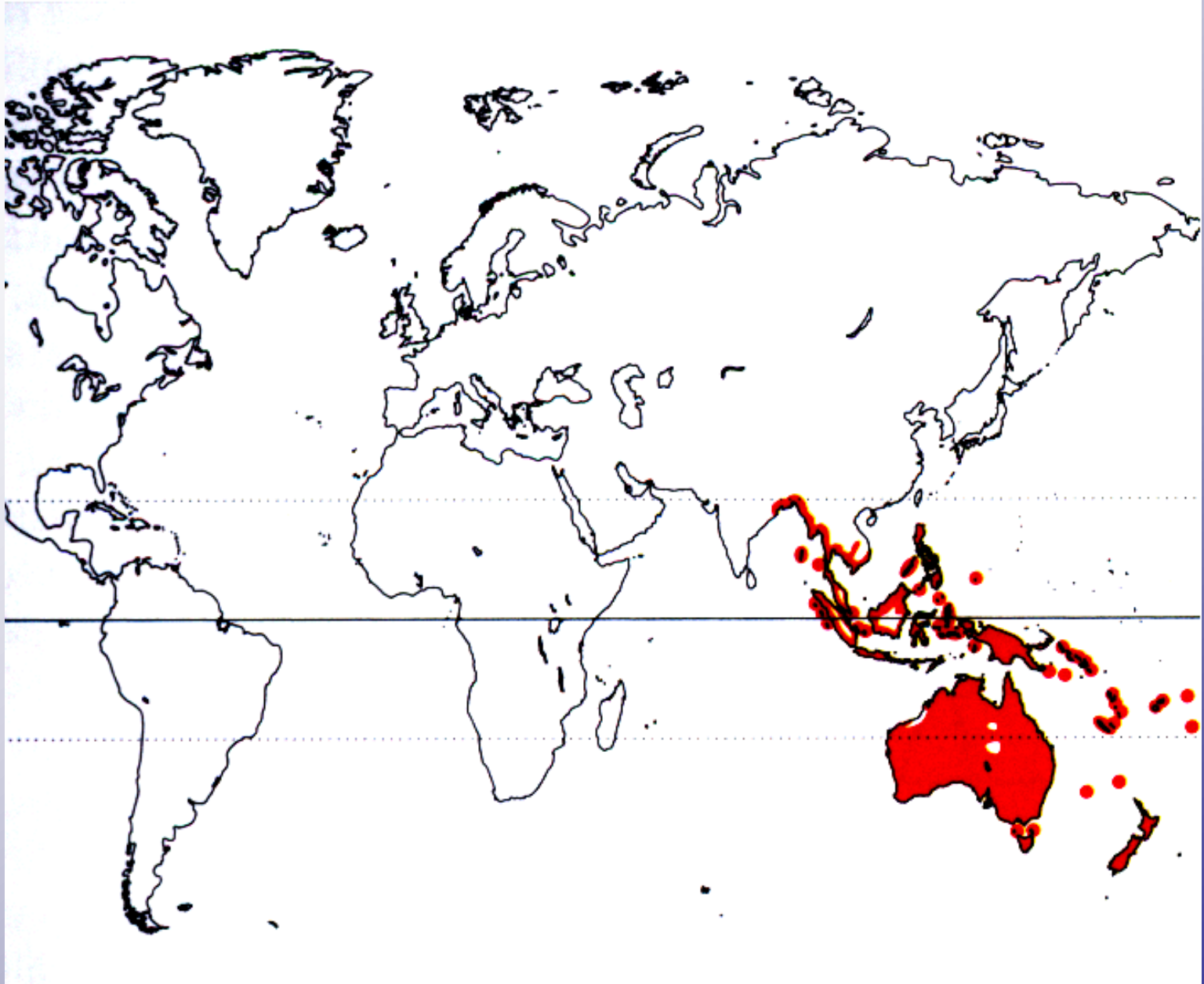
Australie

Pachycephalidae

(12/52)

- lesní biotopy
- monogamní

Pachycephalidae



Oreoica gutturalis



Crested Bellbird *Oreoica gutturalis*
©Paul Hackett 2002

Australie

Pachycephala pectoralis



Asie - Australie

Pitohui dichrous



Papua – Nová Guinea

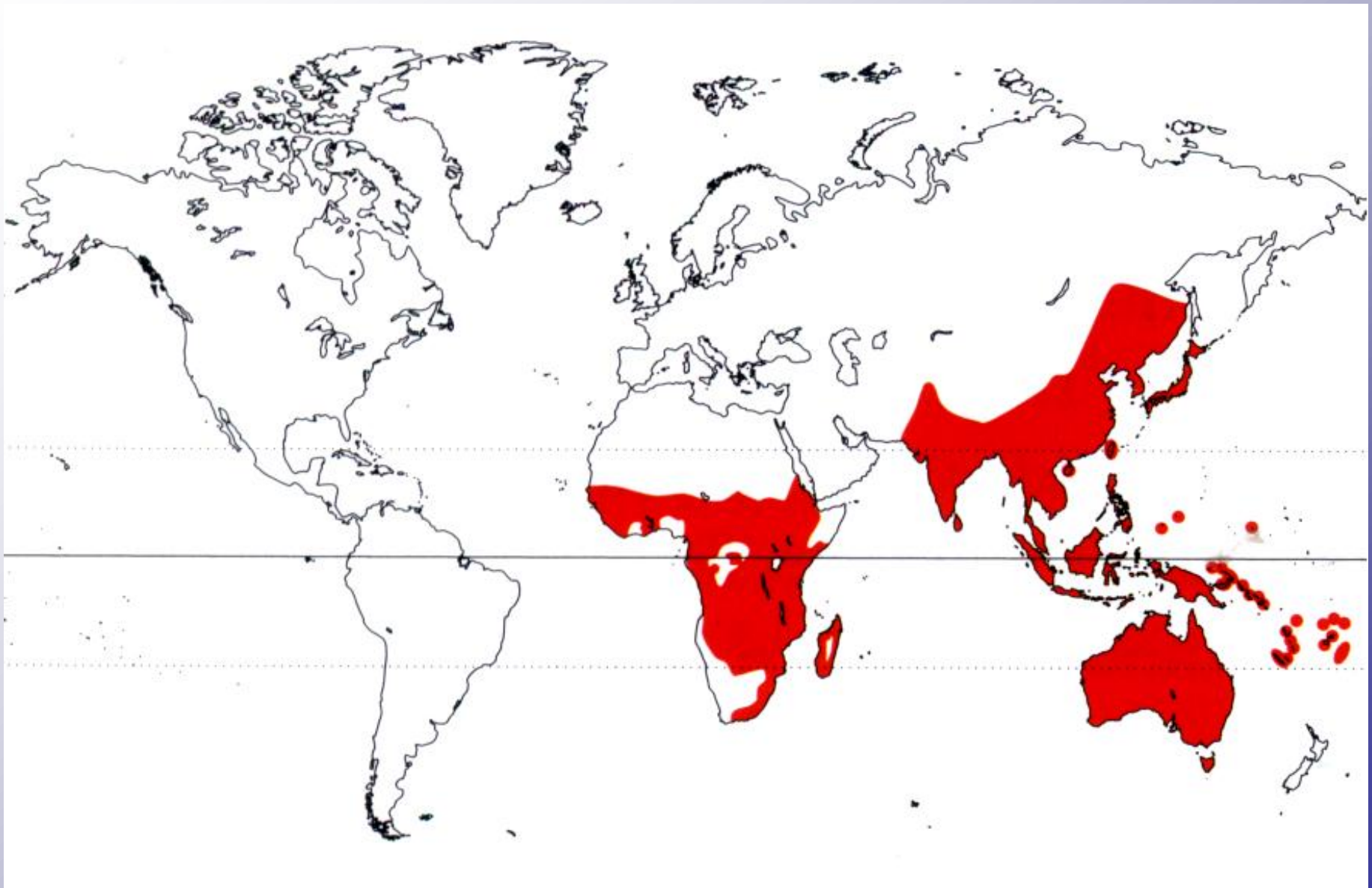
toxin v křídlech

Campephagidae

(9/76)

- většinou lesní
- občas kooperativní hnízdění

Campephagidae



Coracina caesia



Afrika

Pteropodocis maxima



Australie

Pericrocotus solaris



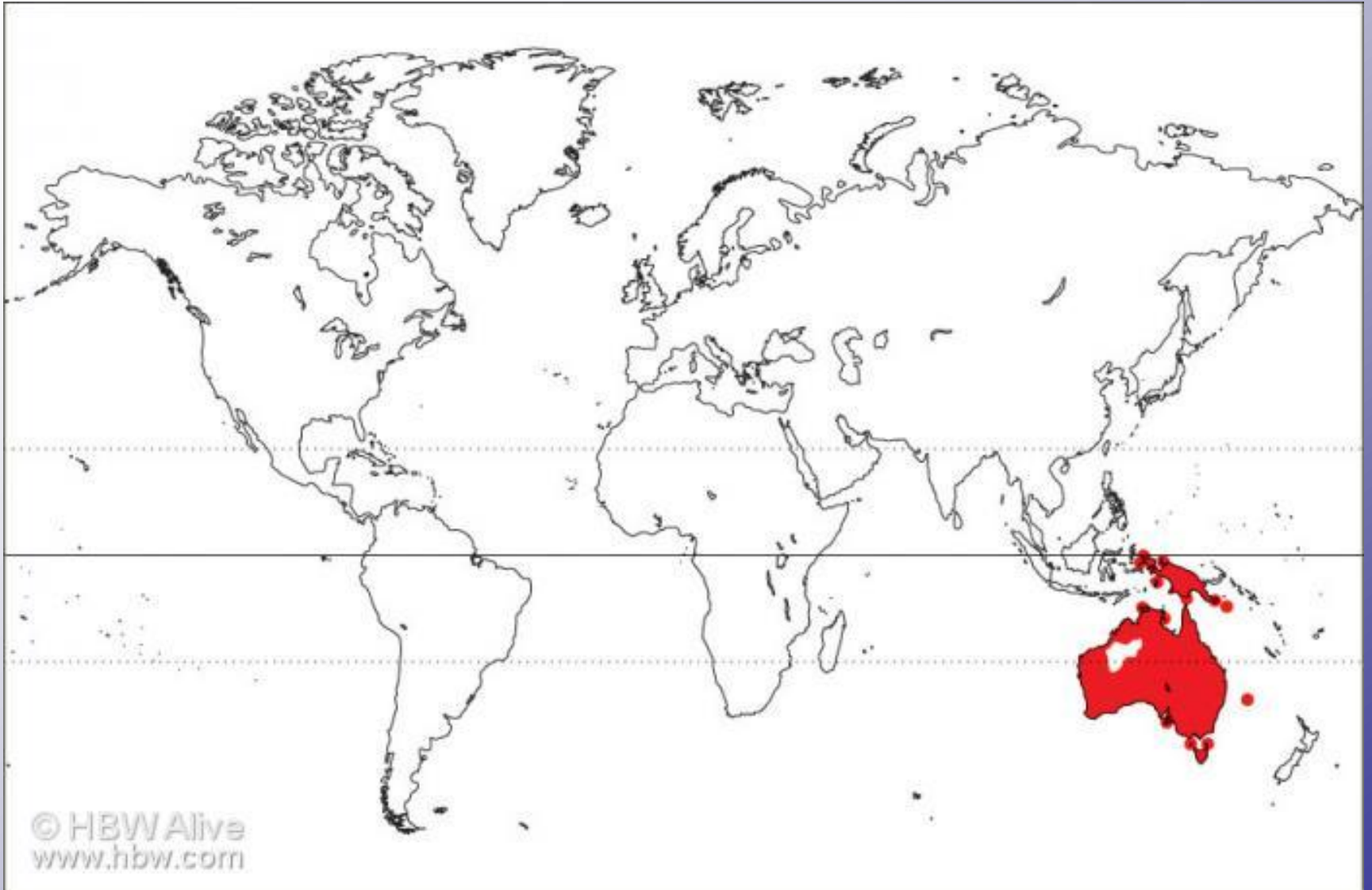
Asie

Cracticidae

(3/13)

- blahovičnickové lesy (ale i synantropní rozšíření)
- helpers

Cracticidae



Cracticus mentalis

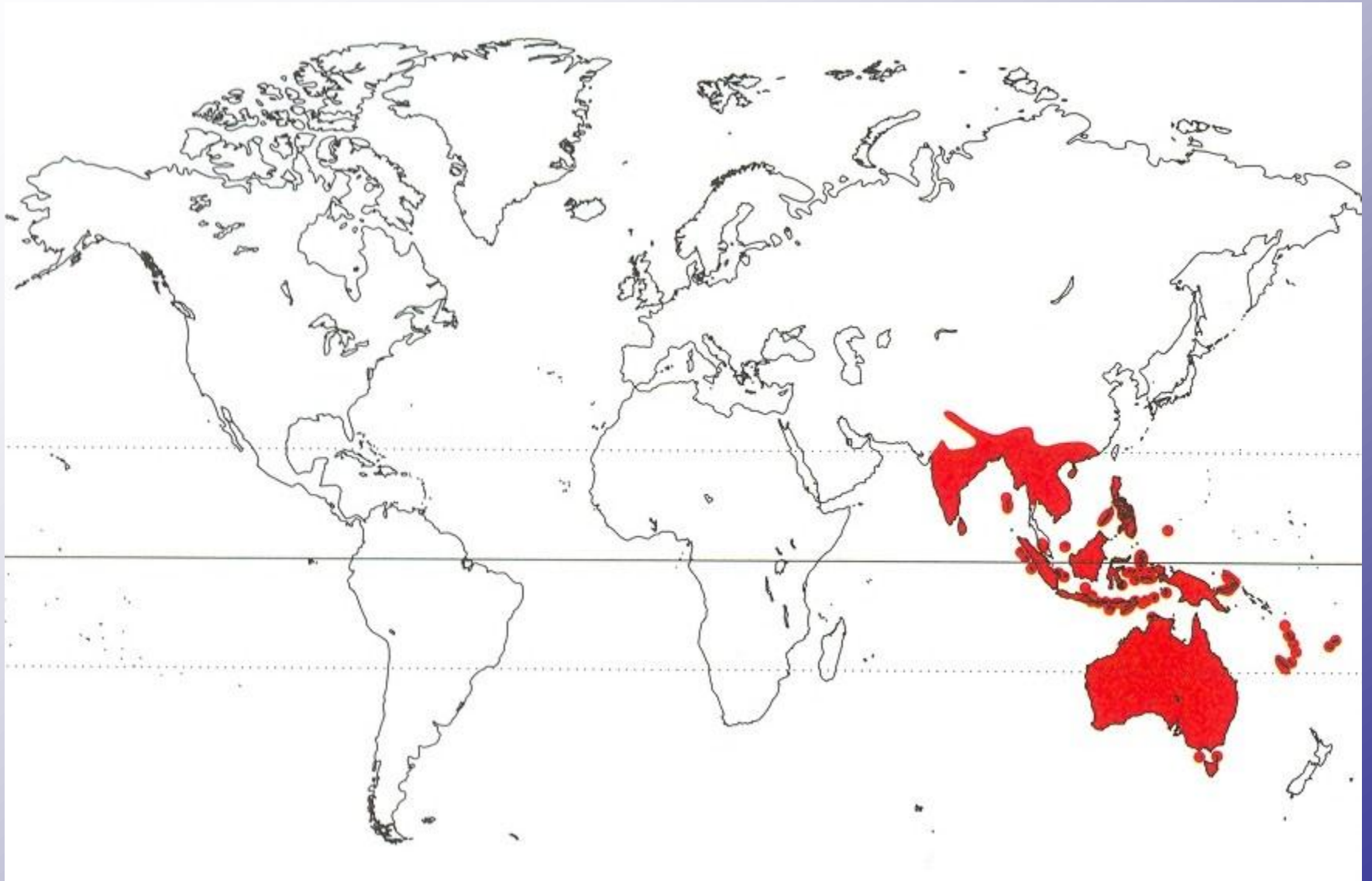


Artamidae

(1/10)

- sociální skupiny
- často kooperativní hnízdění
- allopreening

Artamidae



Artamus leucorhynchus



Asie

Artamus leucorhynchus



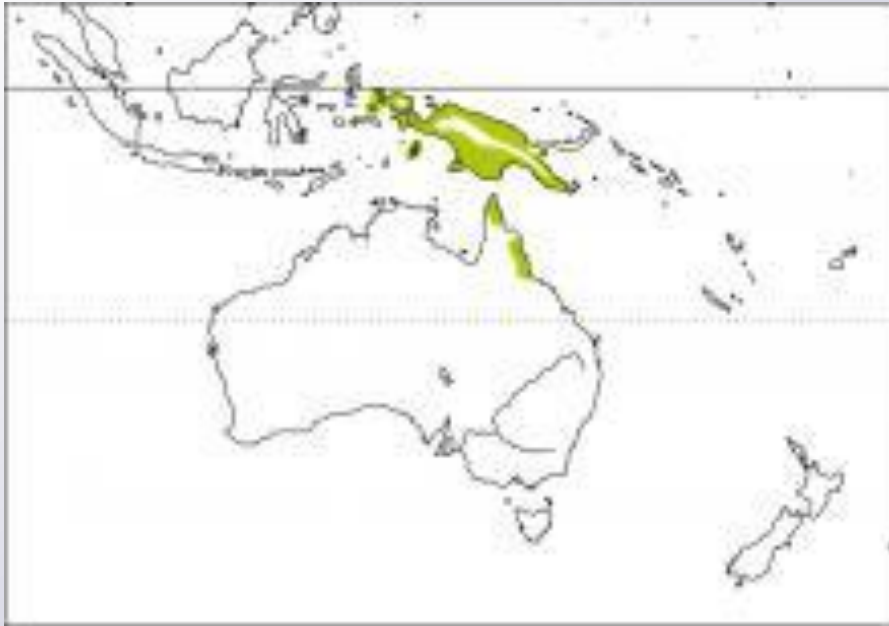
White-breasted Woodswallow *Artamus leucorhynchus* モリツバメ ©Tetsu SATO@ALCEDO

Machaerirhynchidae

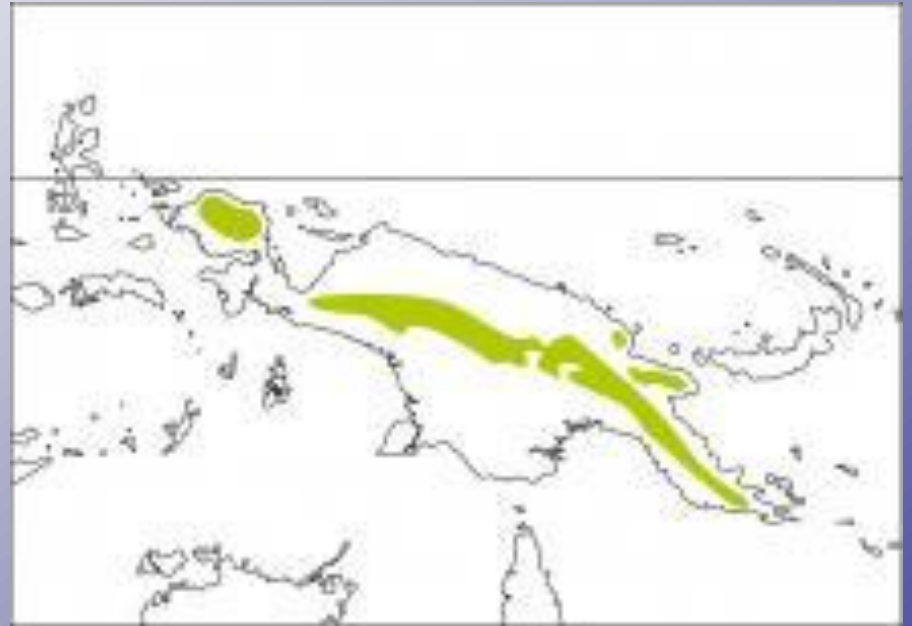
(1/2)

- lesní ptáci
- lejskování

Machaerirhynchidae



M. flaviventer



M. nigripectus

Machaerirhynchus nigripectus



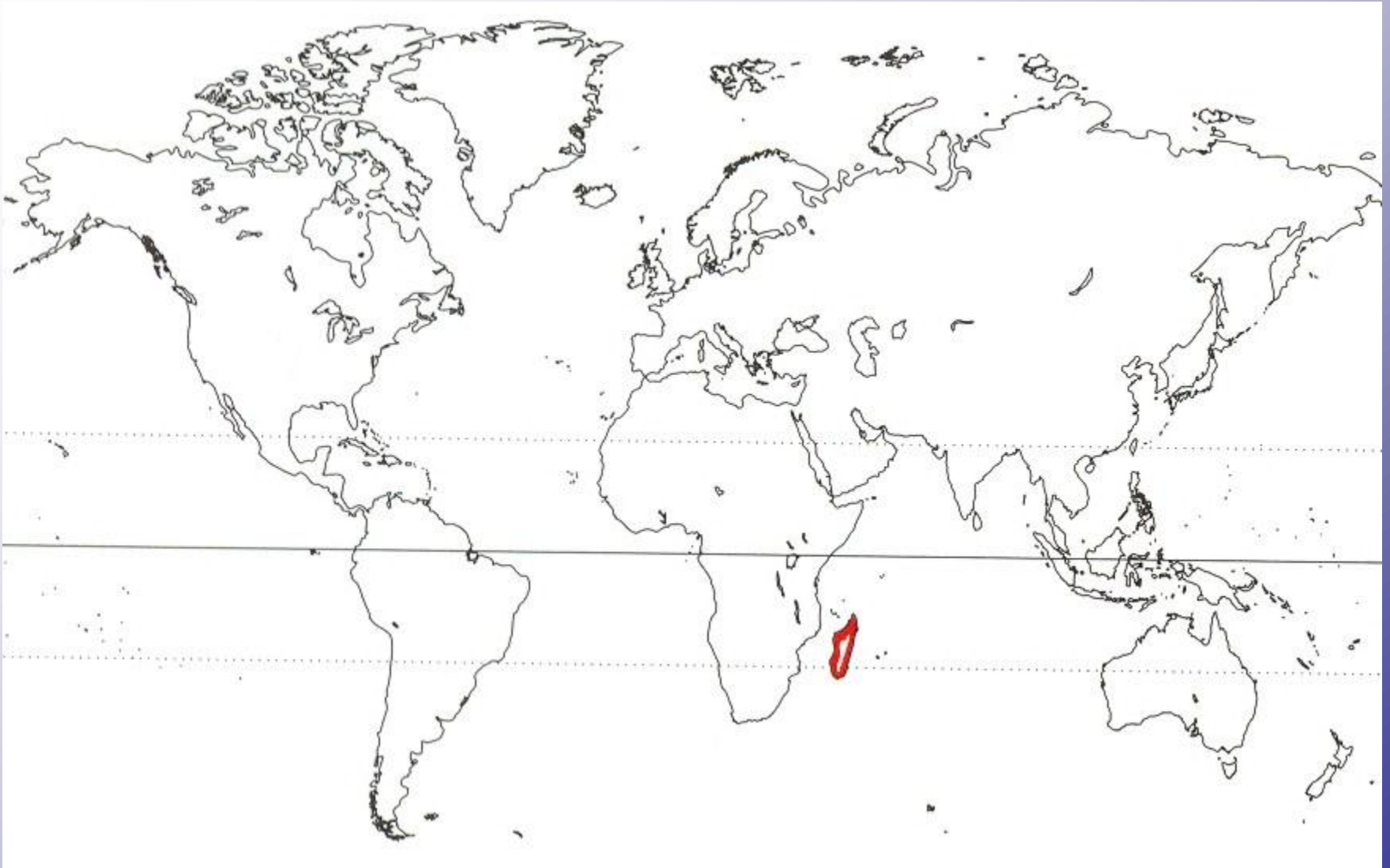
Papua – Nová Guinea

Vangidae

(10/13)

- lesní ptáci
- často kooperativní hnízdění

Vangidae



Euryceros prevostii



Madagascar

monogamní

Leptopterus chabert

kooperativní hnízdění

Madagaskar



Hypositta corallirostris



Madagaskar

svazky neznámé

Falcula palliata

- samice je během toku aktivnější než samec
- polyandrie

Madagaskar

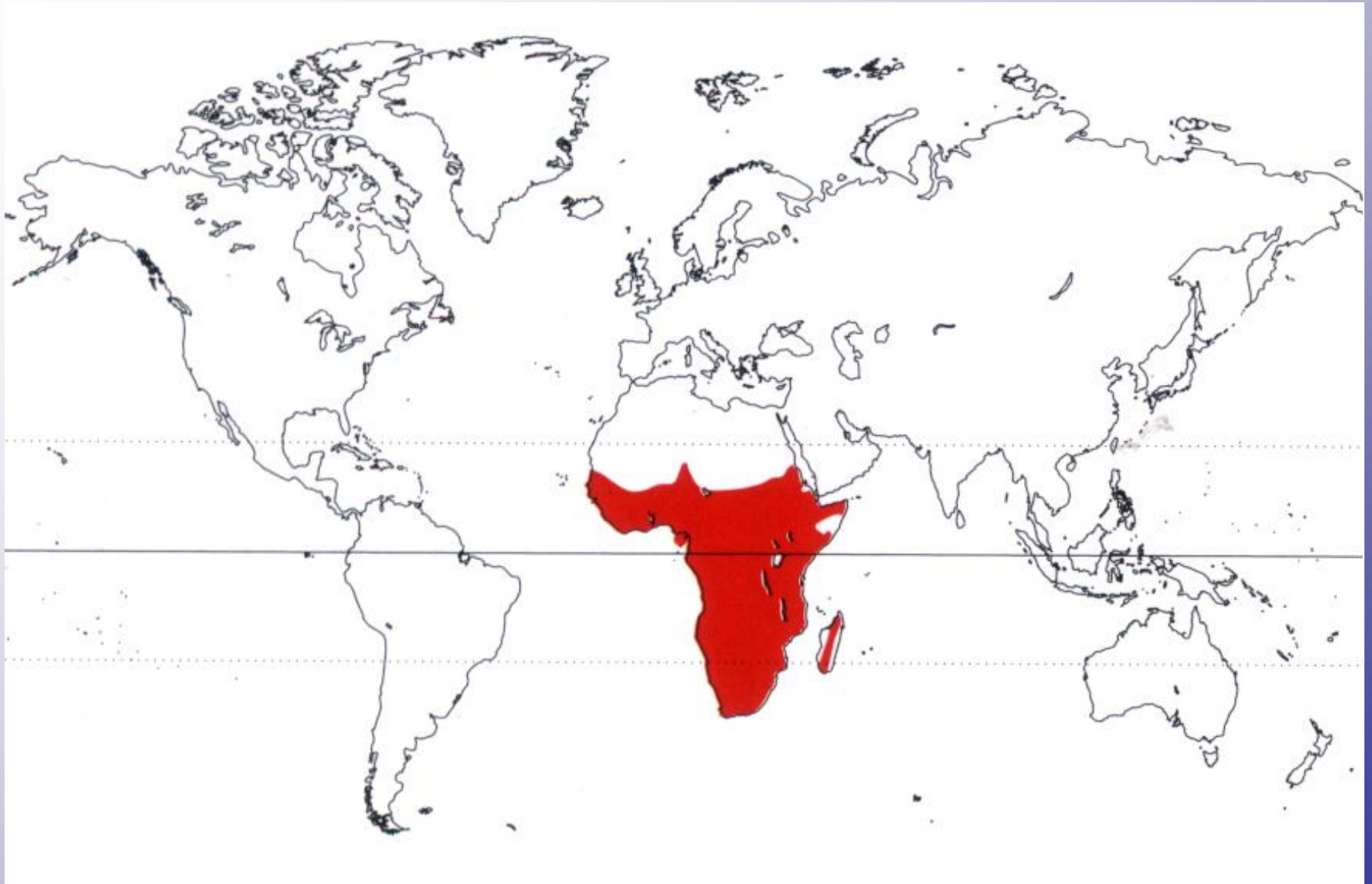
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Platysteiridae

(6/30)

Platysteiridae



Platysteira
peltata



Afrika



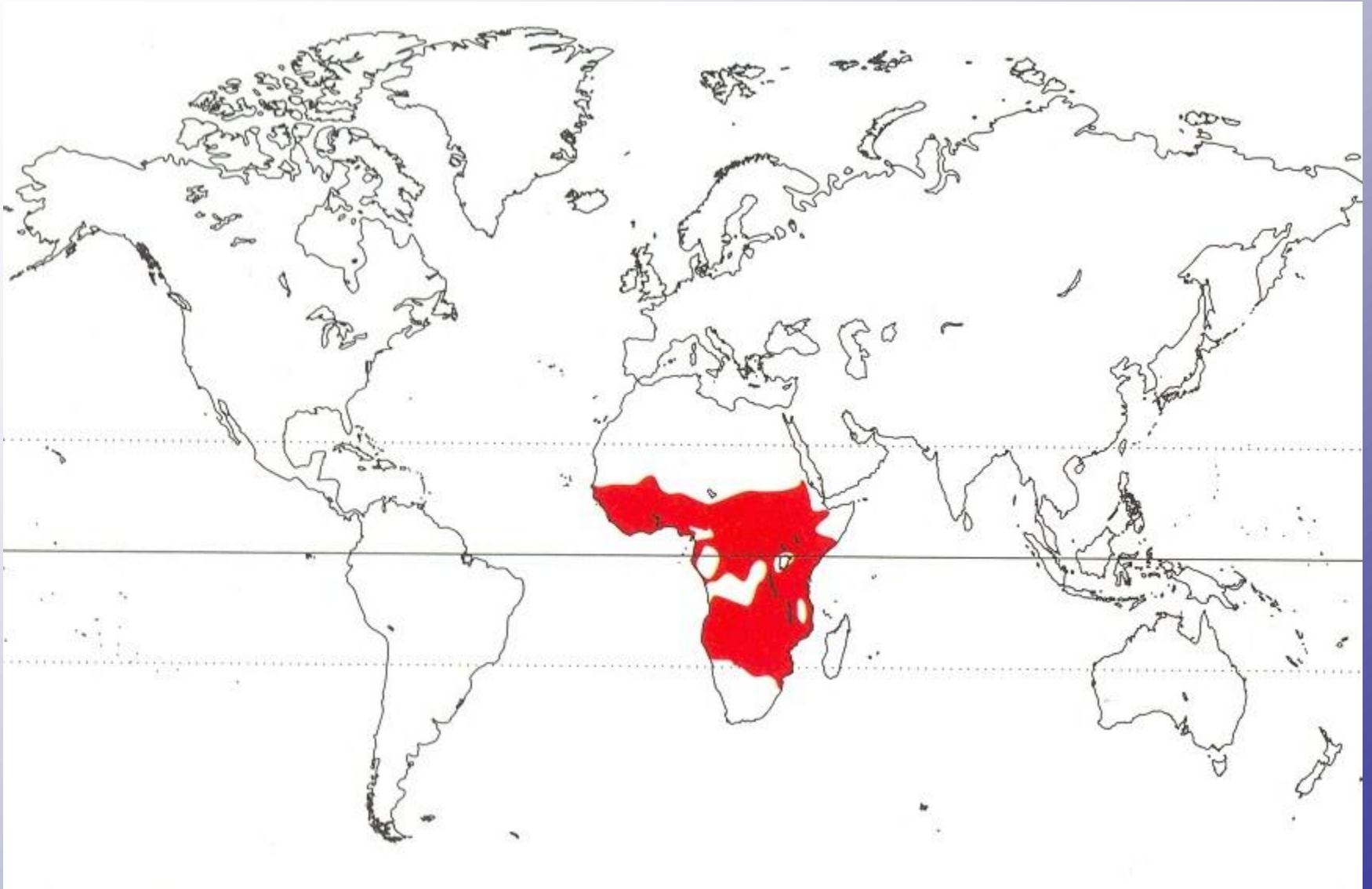
© F.Pardo

Prionopidae

(1/8)

- Kooperativní hnízdění

Prionopidae



*Prionops
plumatus*



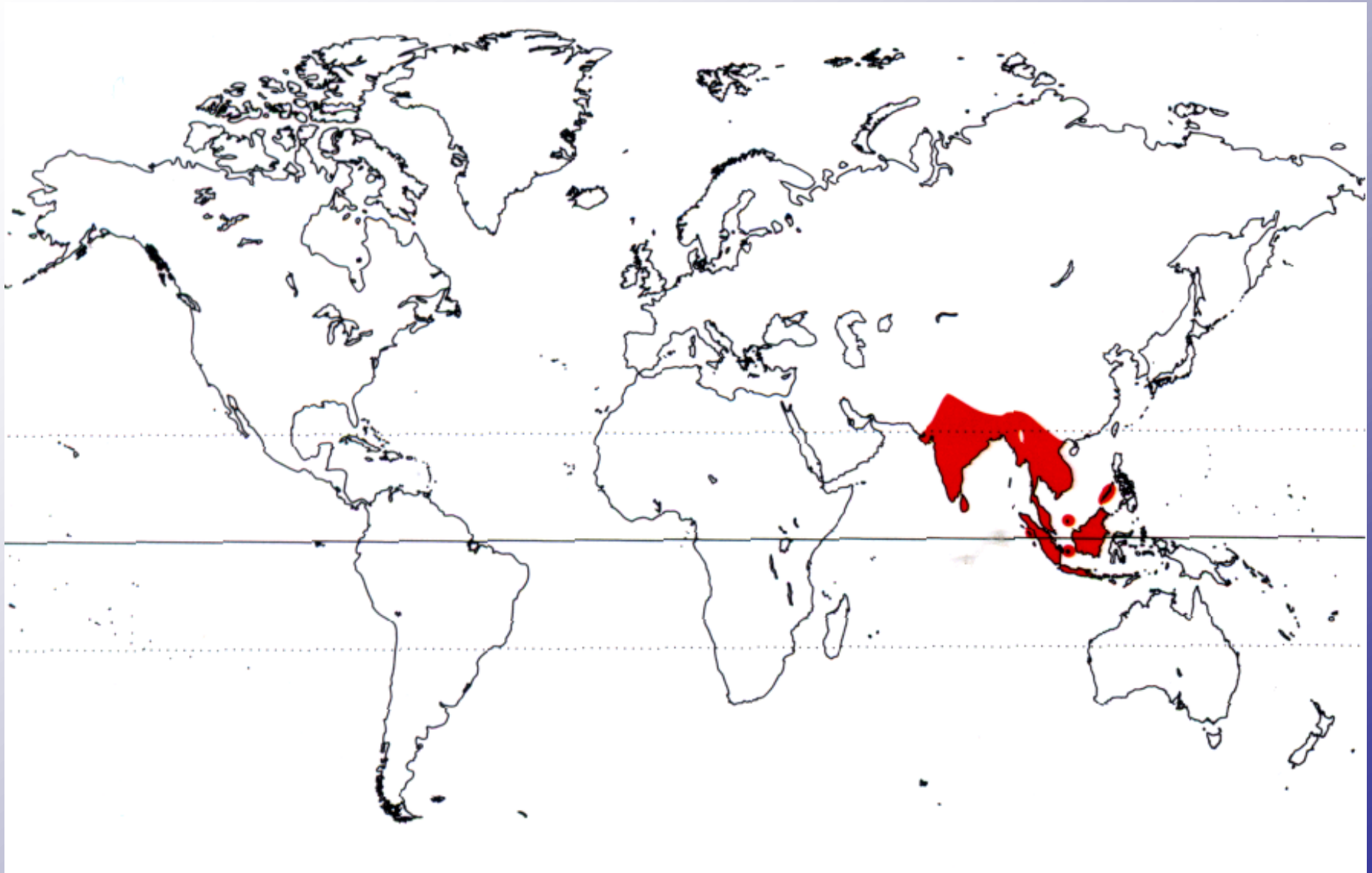
Afrika

Aegithinidae

(1/4)

- během námluv samci padají kontrolovaným para-skokem

Aegithinidae



Aegithina tiphia



Asie

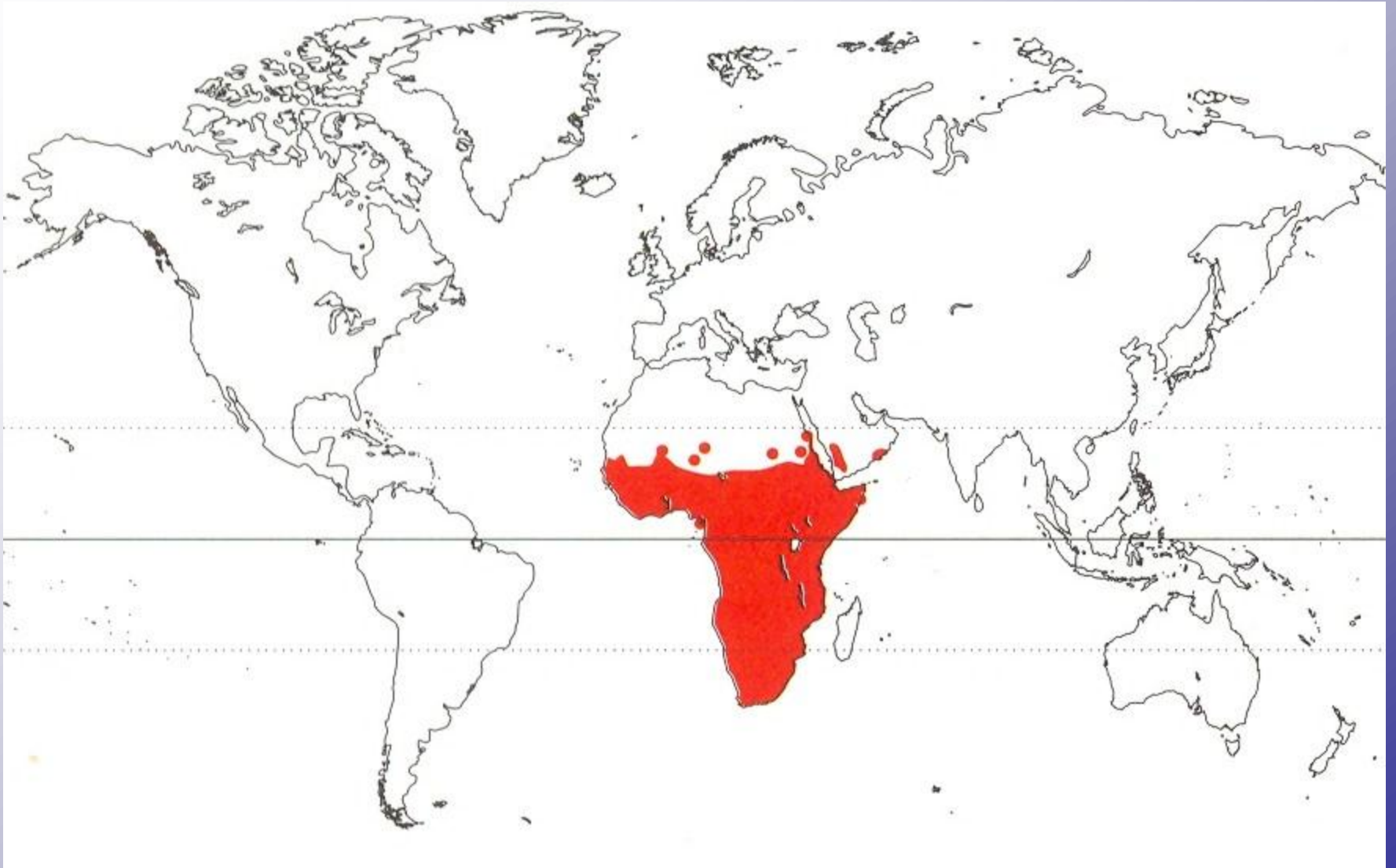
Aegithina tiphia



Malacoconotidae

(7/47)

Malaconotidae



Nilaus afer

www.joniecnaturalnie.com



Afrika

Dryoscopus gambensis



Afrika

Laniarius barbarus



Afrika

*Teleophorus
quadricolor*



Afrika

Malaconotus blanchoti



Afrika

Pityriaseidae

(1/1)

Pityriaseidae



Pityriasis gymnocephala

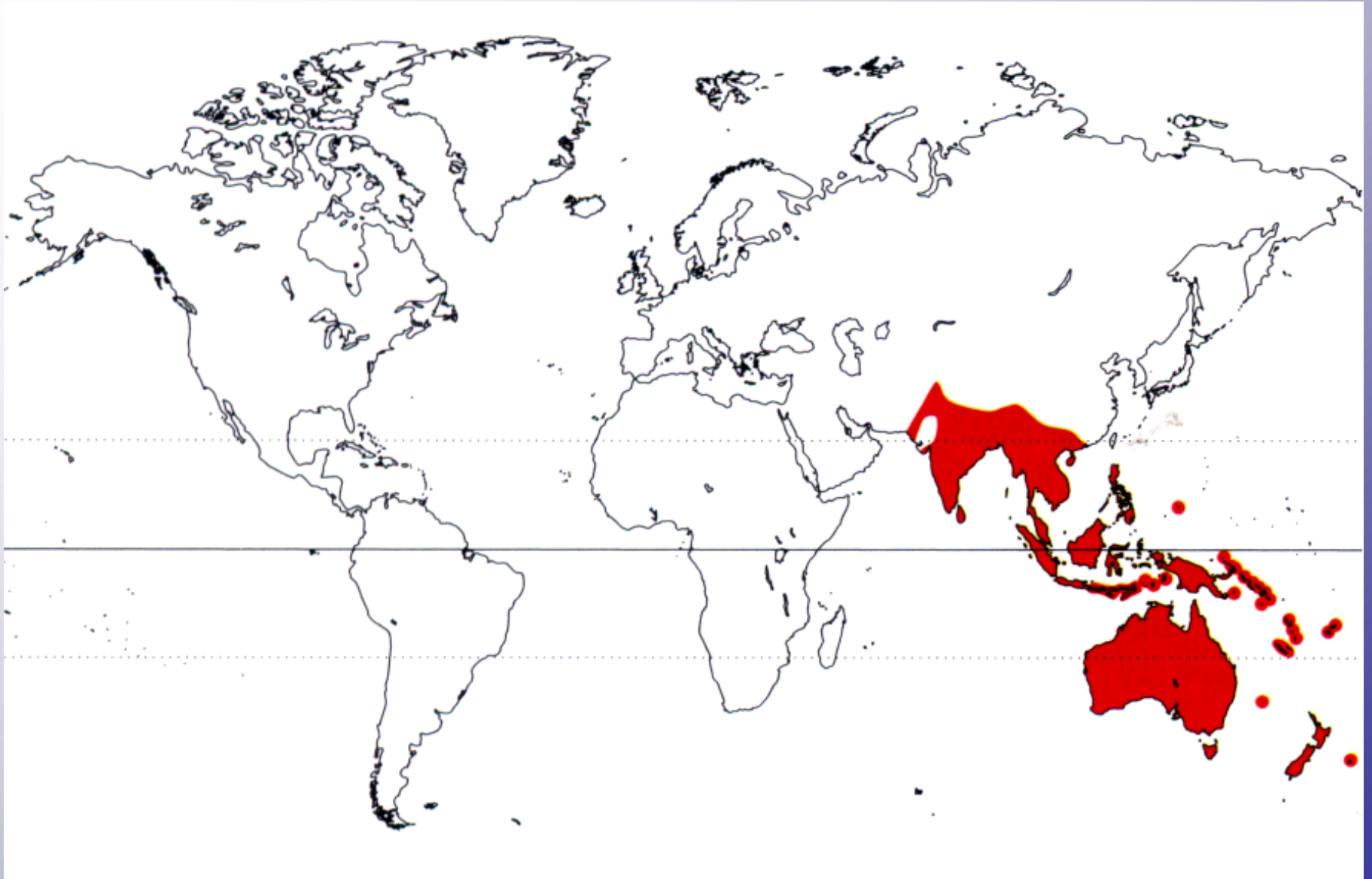


Borneo

Rhipiduridae

(1/44)

Rhipiduridae



Rhipidura rufidorsa



Papua – Nová Guinea

Rhipidura aureola



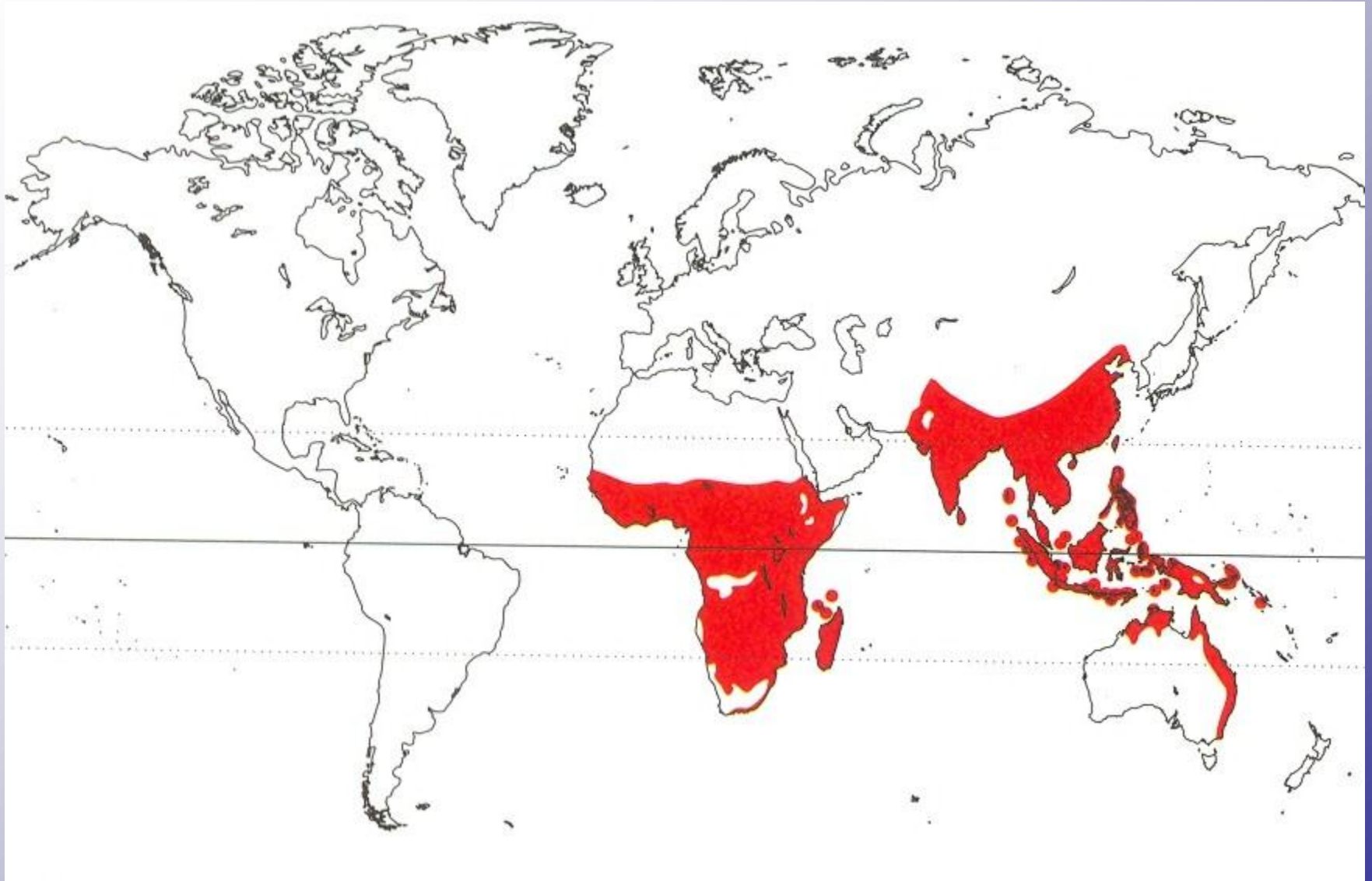
Indie – JV Asie

Dicruridae

(2/22)

- otevřené biotopy se stromy
- monogamní

Dicruridae



Dicrurus adsimilis



Afrika

*Dicrurus
aeneus*



Asie

Bronzed Drongo

© C. Kasorndorkbua January 2005

Dicrurus hottentottus



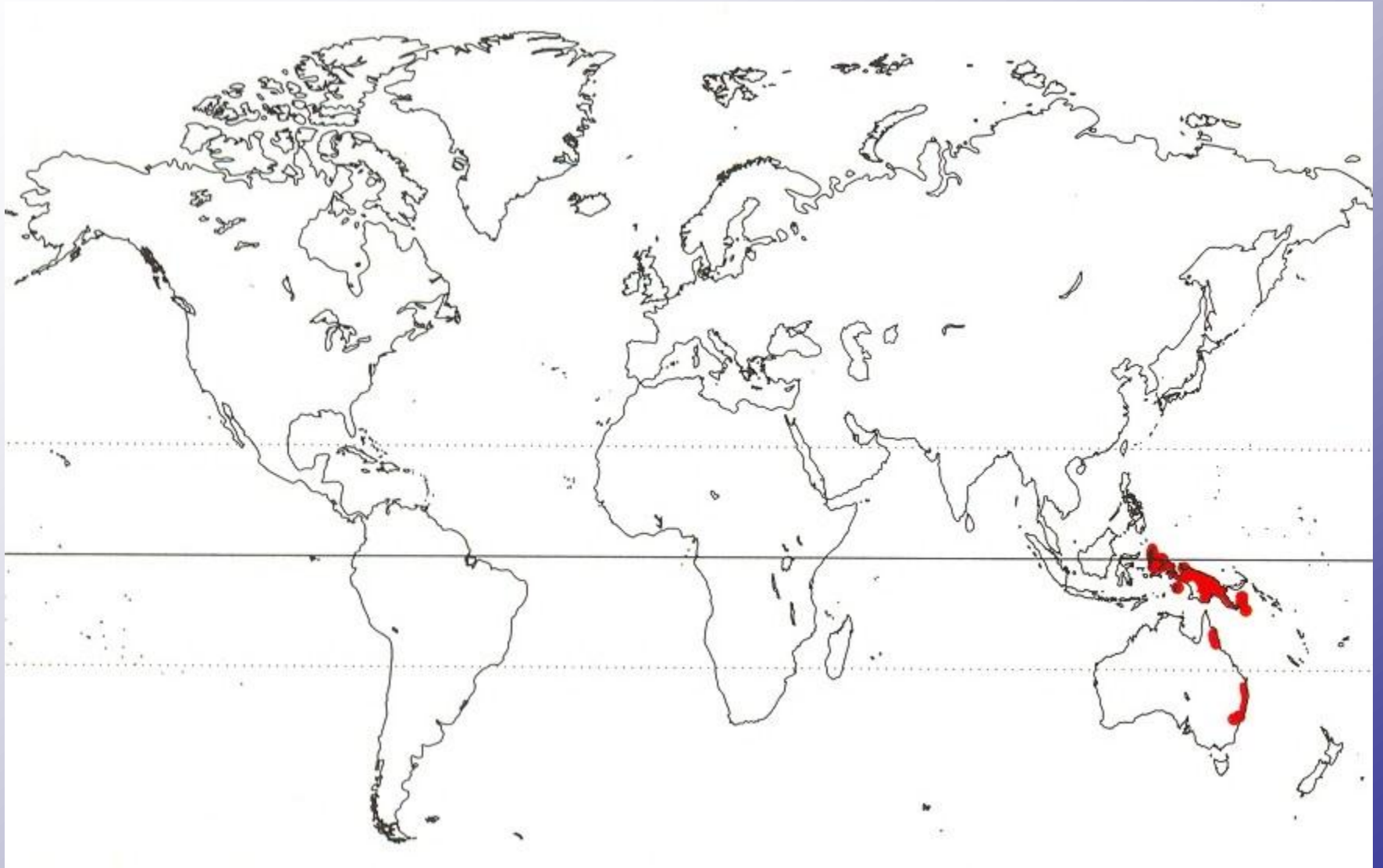
Asie - Australie

Paradisaeidae

(20/42)

- často lekové druhy
- polygynní

Paradisaeidae



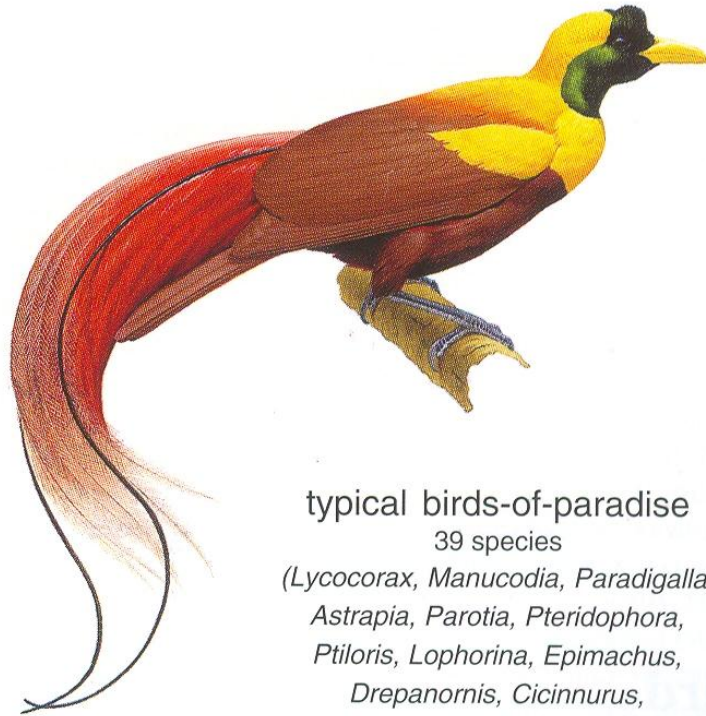
PARADISAEIDAE

CNEMOPHILINAE



satinbirds
3 species
(*Cnemophilus*,
Loboparadisea)

PARADISAEINAE



typical birds-of-paradise
39 species
(*Lycocorax*, *Manucodia*, *Paradigalla*,
Astrapia, *Parotia*, *Pteridophora*,
Ptiloris, *Lophorina*, *Epimachus*,
Drepanornis, *Cicinnurus*,
Semioptera, *Seleucidis*,
Paradisaea)

FAMILY

SUBFAMILY

Ptiloris victoriae



Australasie

Ptiloris victoriae



Semioptera wallacei



Australasie

Drepanornis bruijnii



Australasie

Seleucidis melanoleuca



Australasie

*Paradisea
guilielmi*



Papua - Nová Guinea

Paradisea minor



Australasie

Paradisea raggiana



Papua – Nová Guinea

Video: www.arkive.org

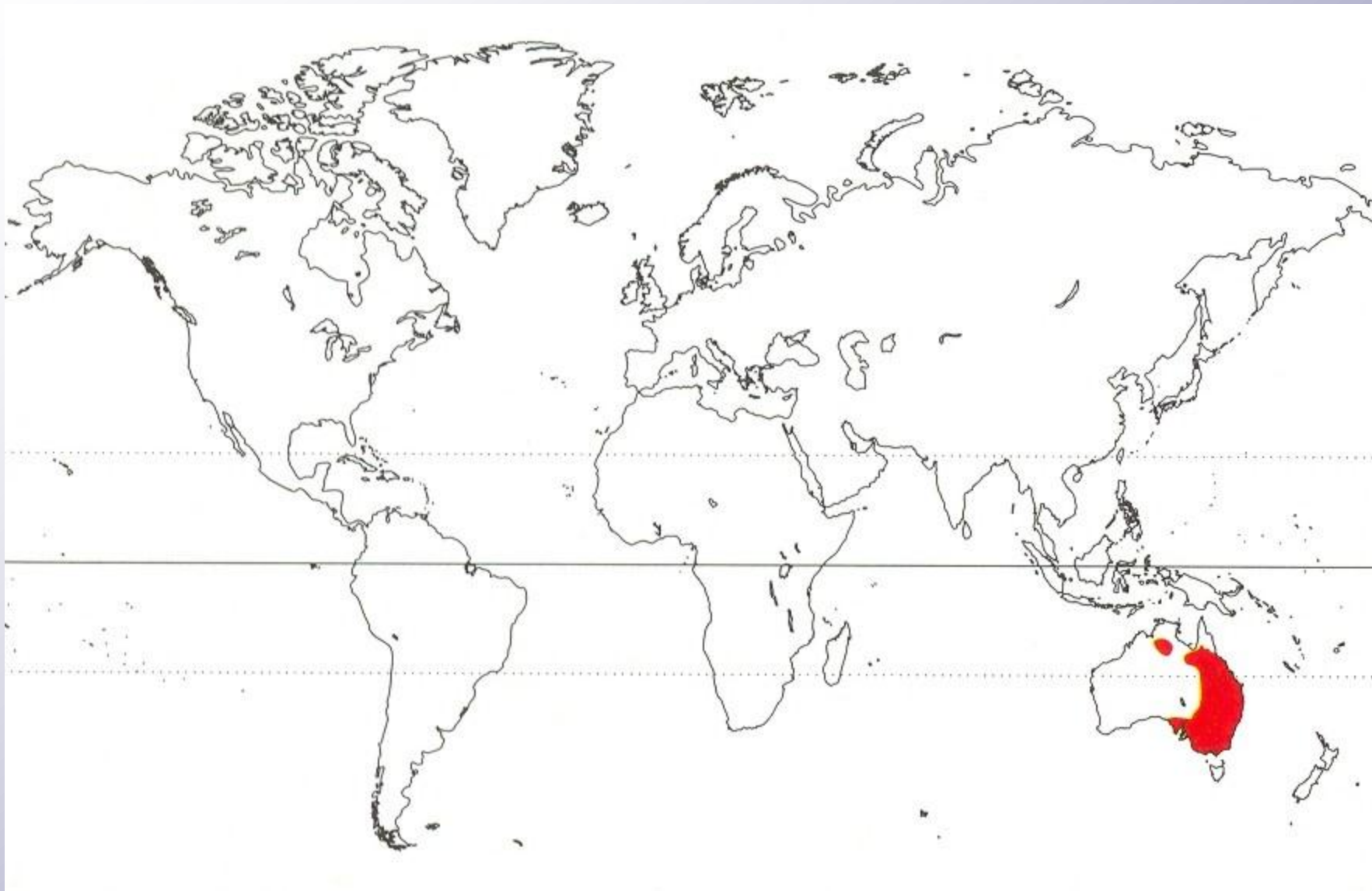
Corcoracidae

(Struthideidae)

(2/2)

- sociální skupiny
- kooperativní hnízdění
- velké hnízdo z bahna

Corcoracidae



Corcorax melanorhamphos



Australie

Corcorax melanorhamphos



Struthidea cinerea

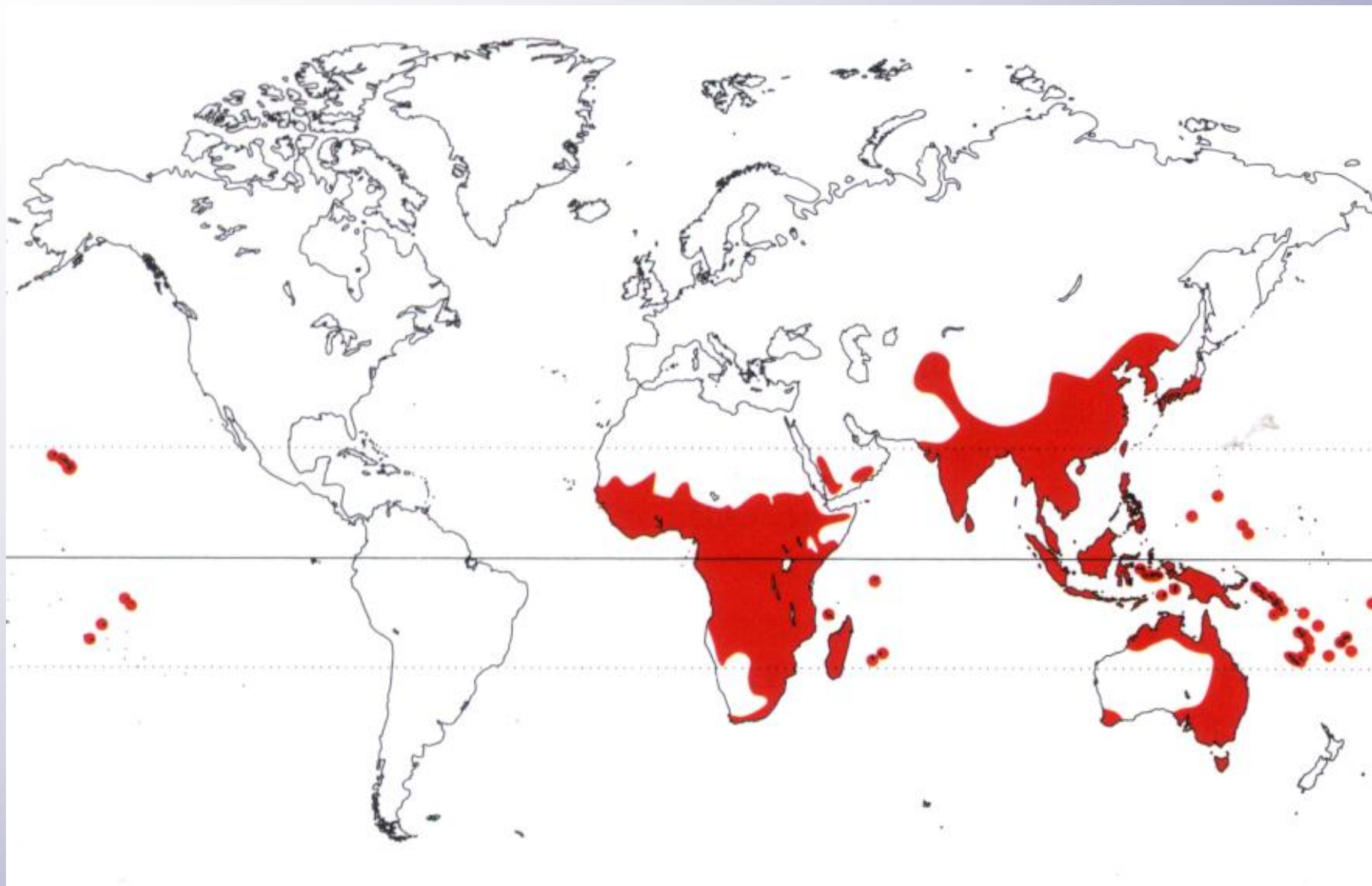


Australie

Monarchidae

(18/97)

Monarchidae



Elminia longicauda

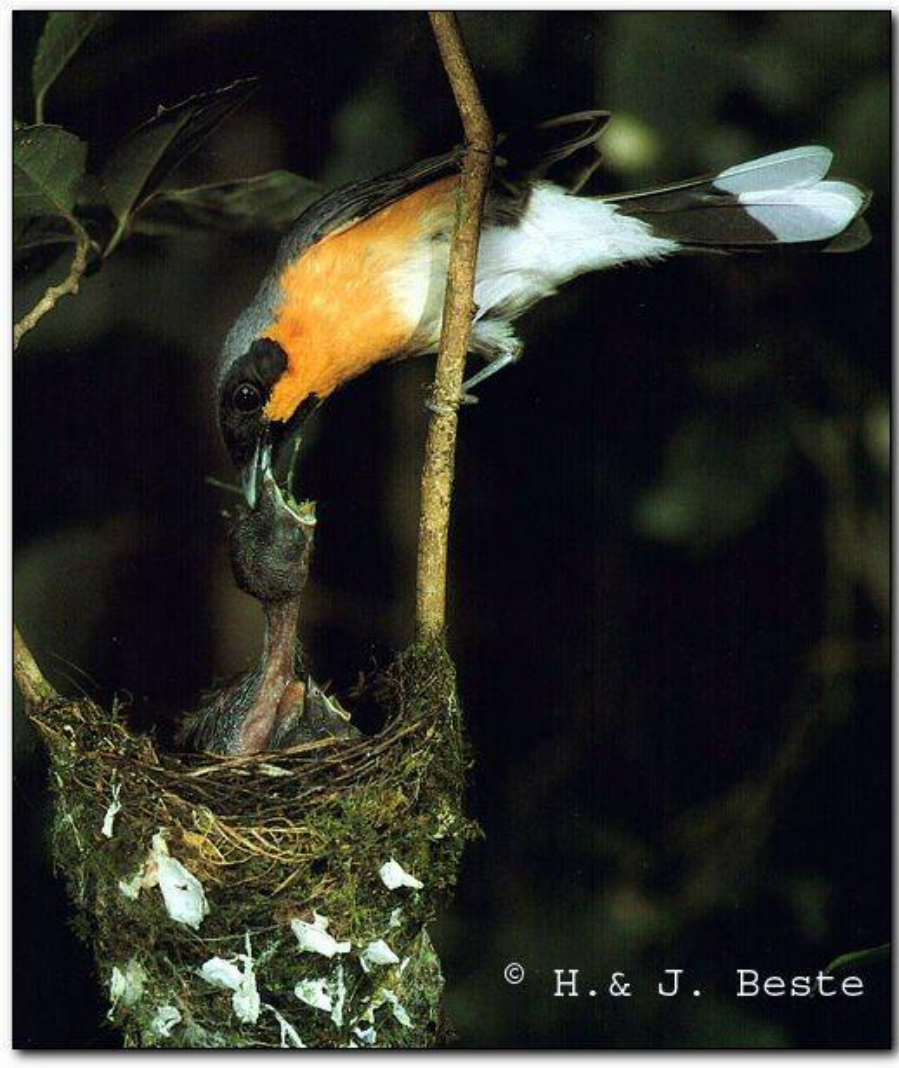


(c) Geoff Dobbs - Supplied to Worldbirder.com

Afrika

kooperativní hnízdění

Monarcha trivirgatus



Australie

Myiagra rubecula



Australie



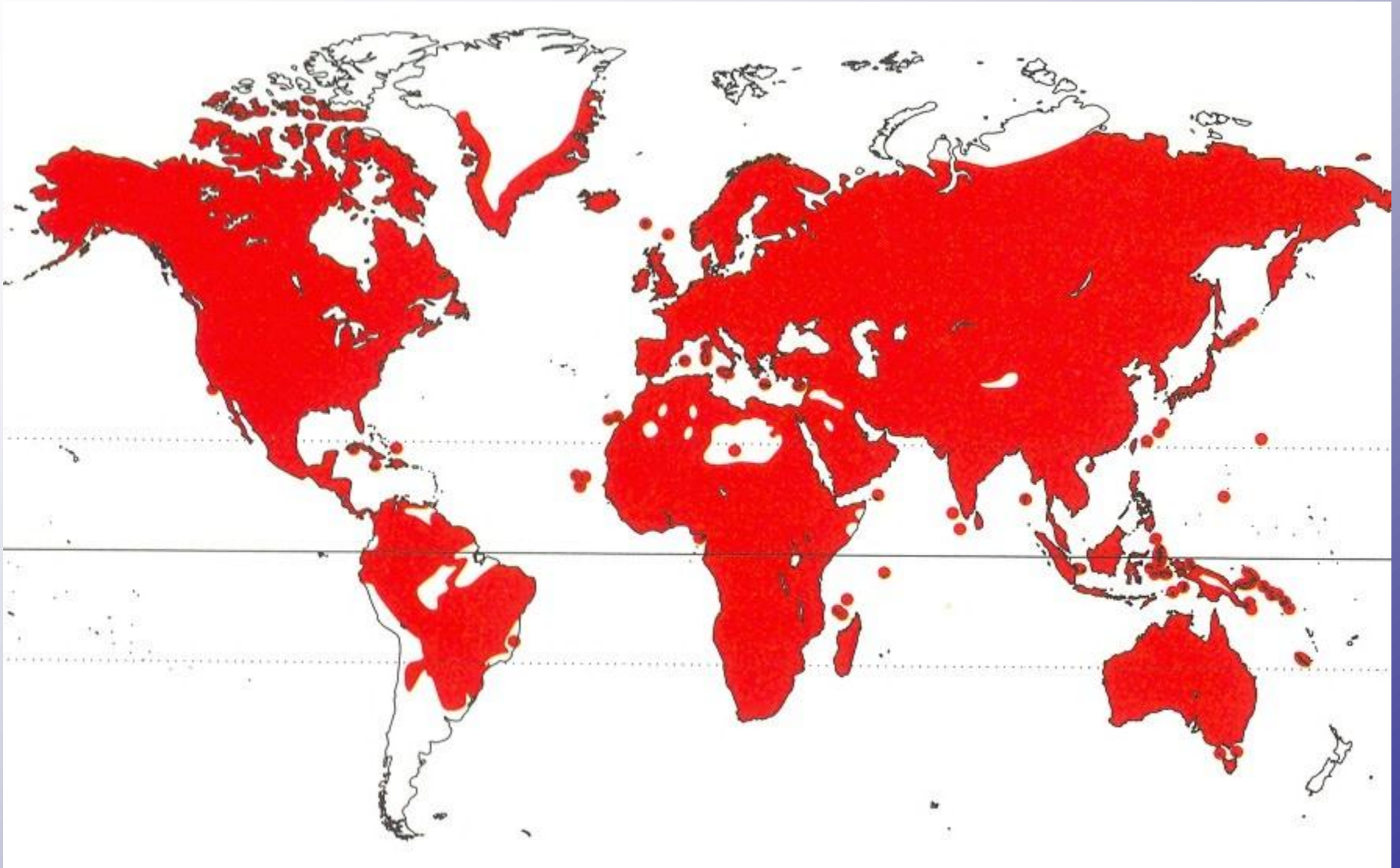
Terpsiphone paradisi

Asie - Australie

Corvidae

(20/130)

Corvidae



Cyanocitta cristata



S. Amerika

Aphelocoma coerulescens



Nový Svět

kooperativní hnízdění

Cyanocorax yncas



Nový svět

Calocitta formosa



J. Amerika

Garrulus glandarius



Evropa - Asie

Perisoreus infaustus



Evropa - Asie

Pica pica



Holarktida

*Dendrocitta
vagabunda*



Asie

D Behrens Dec '04

Nucifraga caryocatactes



Evropa - Asie

Pyrrhocorax pyrrhocorax



Evropa - Asie

Corvus monedula



Evropa - Asie

Corvus splendens



Asie

Corvus frugilegus



Evropa - Asie

Corvus corone corone



Z Evropa

Corvus corax



Evropa

© 2002 M. Schmitt

Corvus albus

www.joniecnaturalnie.com



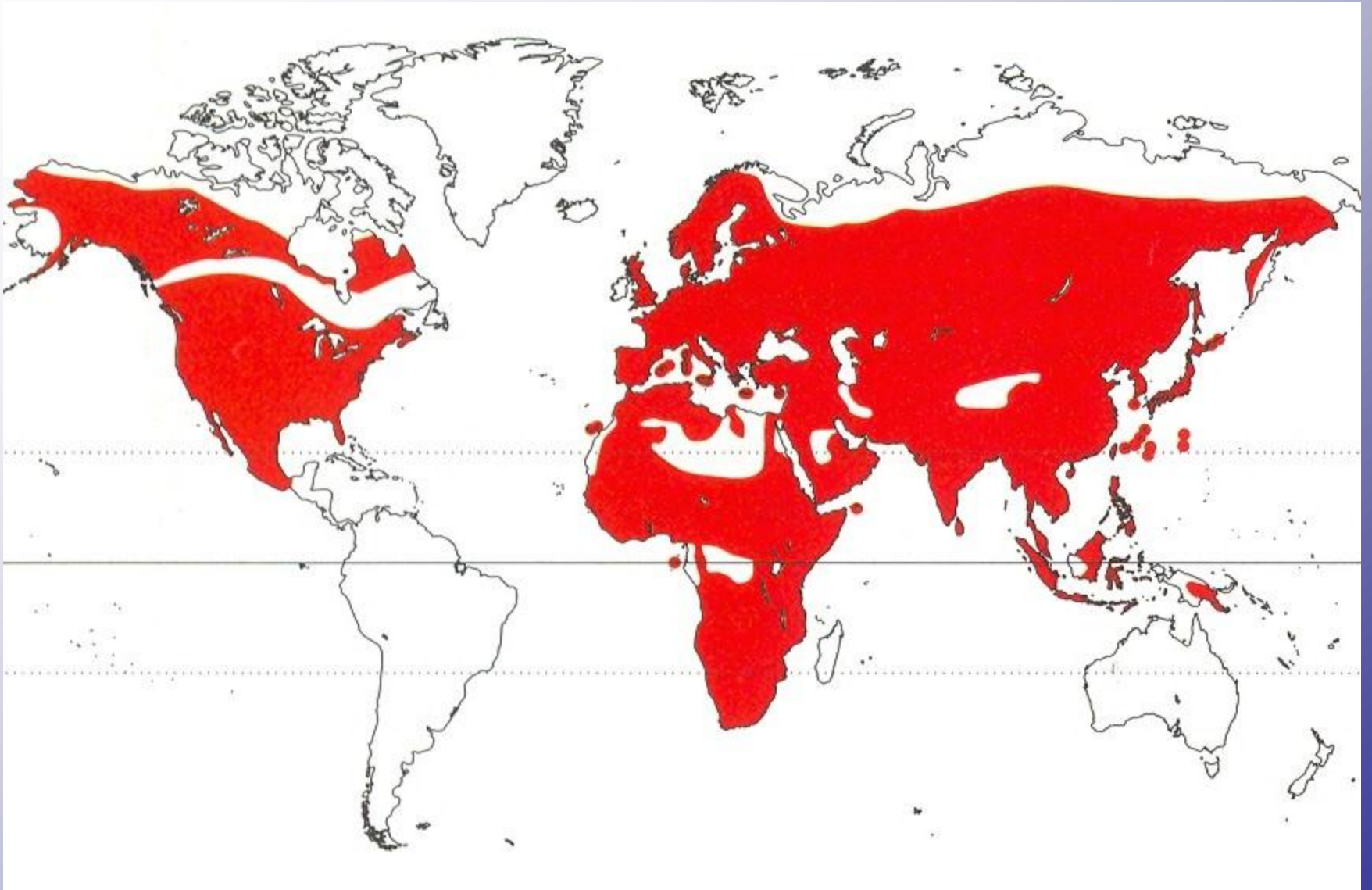
Afrika

Laniidae

(3/30)

- zejk - masožravost
- kooperativní hnízdění

Laniidae





Tchagra senegala



Afrika - Evropa

*Corvinella
corvina*

Kooperativní hníždění

Afrika



Lanius collurio



Afrika - Asie

Lanius excubitor



Afrika - Asie

Lanius minor



Evropa - Asie

Lanius senator



Evropa