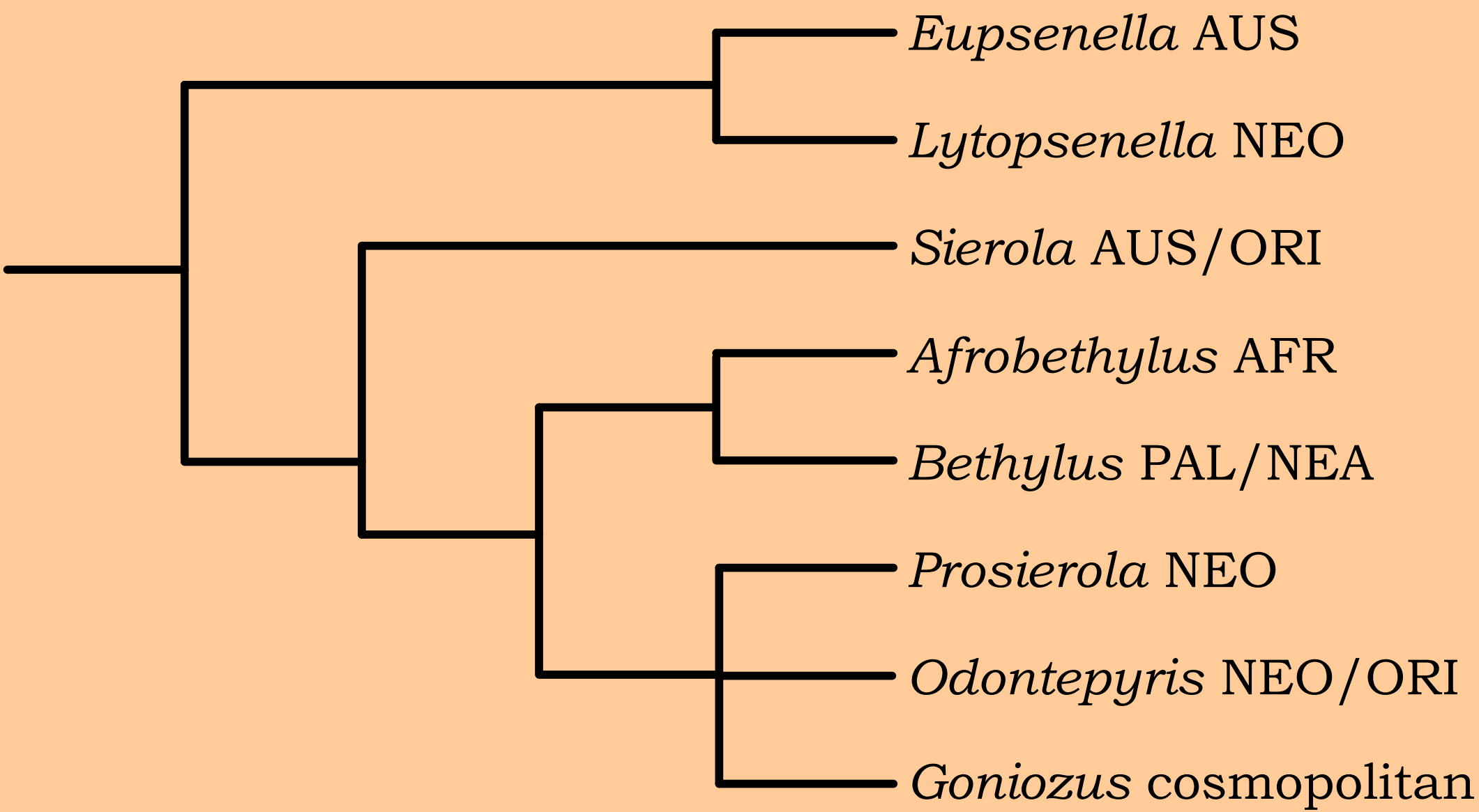
Dark wasps, dark taxa: uncovering the Diversity of Australian *Sierola*

Karl Magnacca, Div. of Forestry & Wildlife, Hawaii, USA

Sierola sp.
photo by Keith Martin-Smith CC-BY 4.0

preliminary phylogeny of Bethylinae



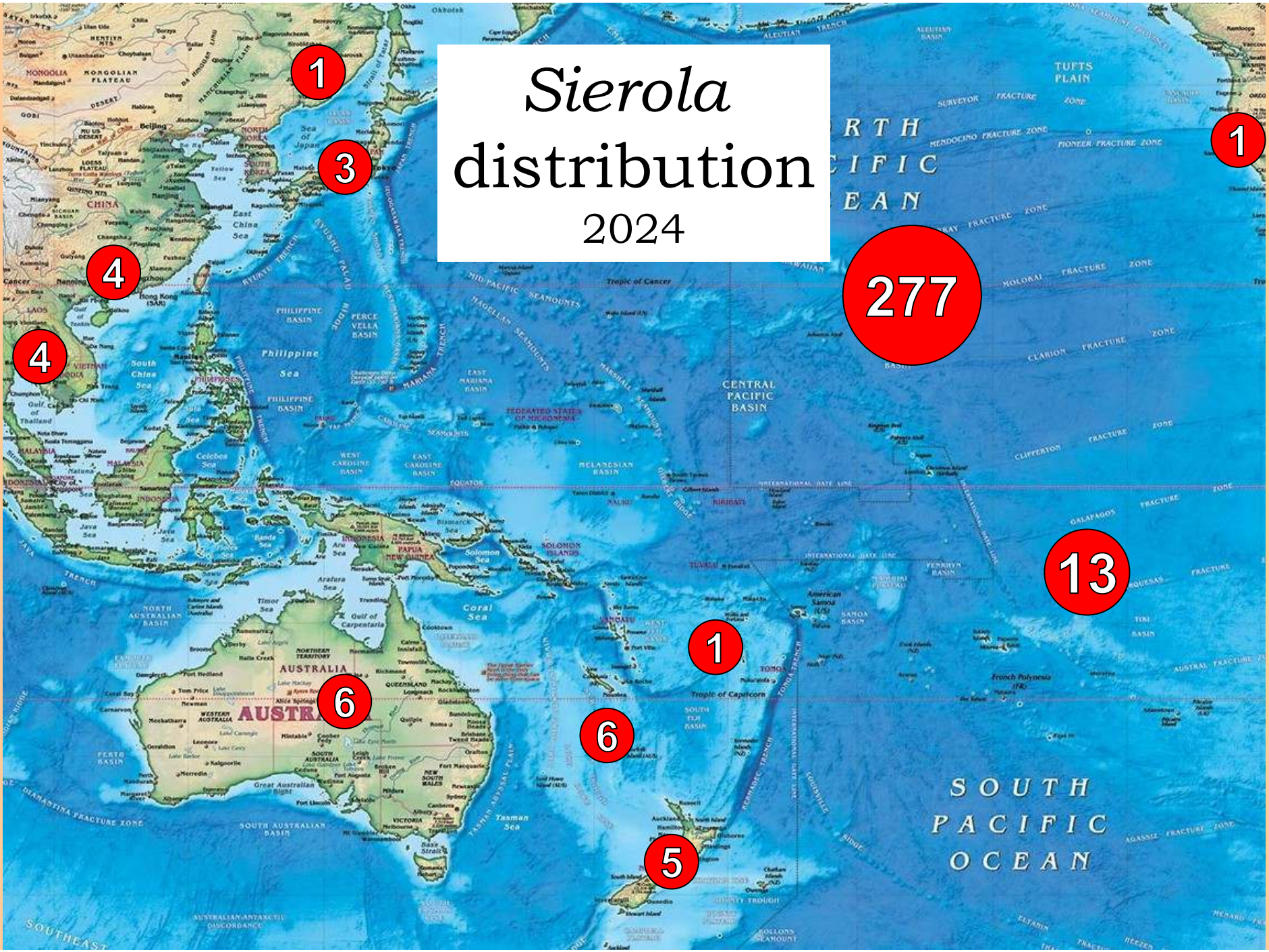

Sierola
distribution
2024
1
3
4
4
277
1
13
1
6
6
5
SOUTH
PACIFIC
OCEAN

Table 1. Number of specimens (by genus) examined during this study. Number of species in the world and Australia before the present study.

Subfamily	Genus	World species	Australian species	Number of specimens examined
Bethylinae	*Eupsenella*	4	3	95
	Goniozus	160	7	1,114
	Odontepyris	27	4	1
	Sierola	194	3	1,213
Epyrinae	*Allobethylus*	7	1	7
	Cephalonomia	35	2	59
	Chilepyris	2	0	2
	Epyris	221	3	448
	Glenosema	14	1	8
	Holepyris	107	2	814
	Lepidosternopsis	7	2	49
	Plastanoxus	8	1	40
	Prorops	3	0	2
	Rhabdepyris	125	18	1,984
	Sclerodermus	73	1	125
Pristocerinae	*Apenesia*	166	2	1,000
	Dissomphalus	223	0	128
	Parascleroderma	27	0	16
	Pseudisobrachium	155	0	10

Azevedo, 2006
Check List
2(1)42–44

ANIC

Queensland Museum

Melbourne Museum

South Australia Museum

clypeus form

flat

sharp

weak/angulate

partial revision: no clypeal carina

383 specimens

158 new species!





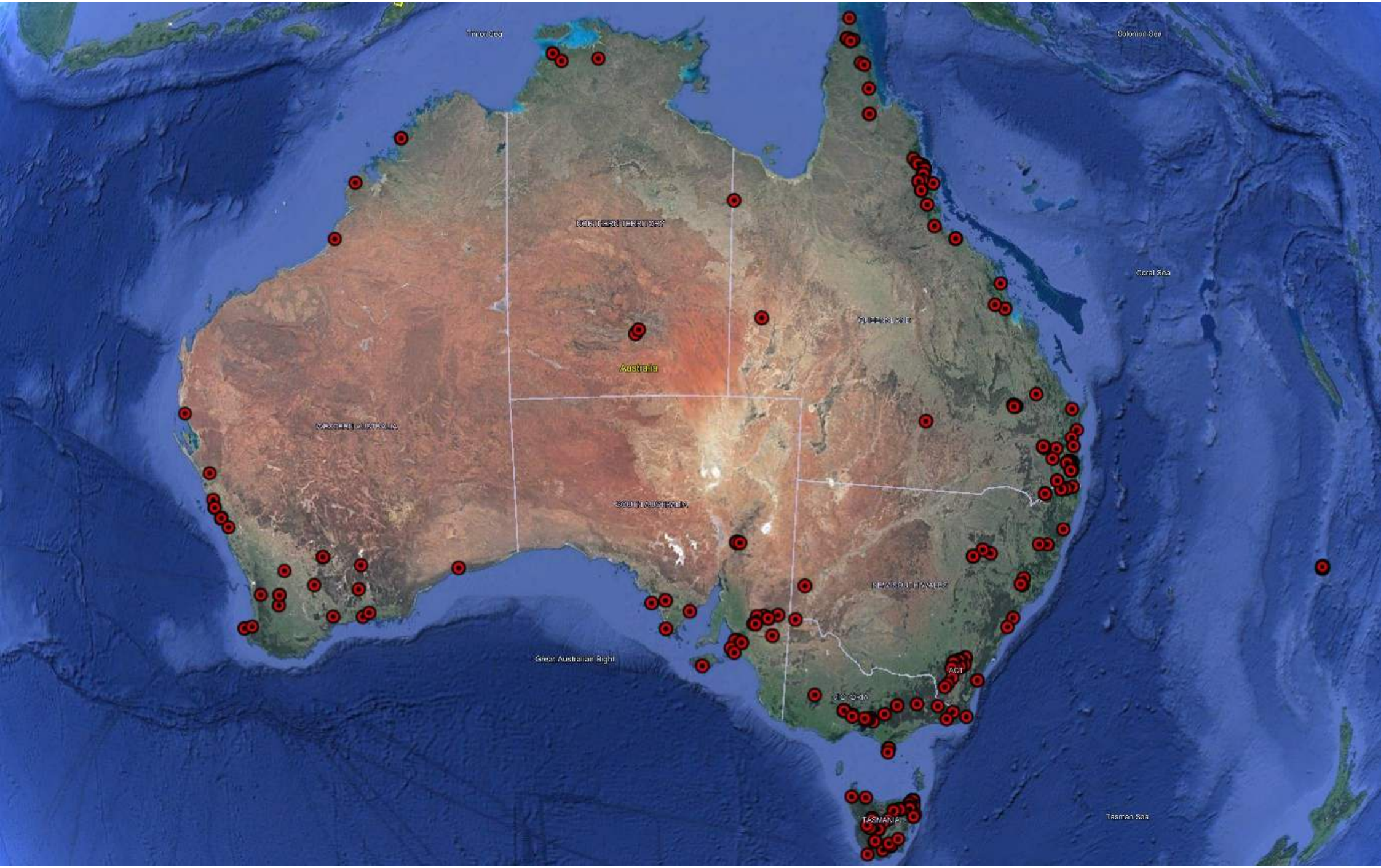


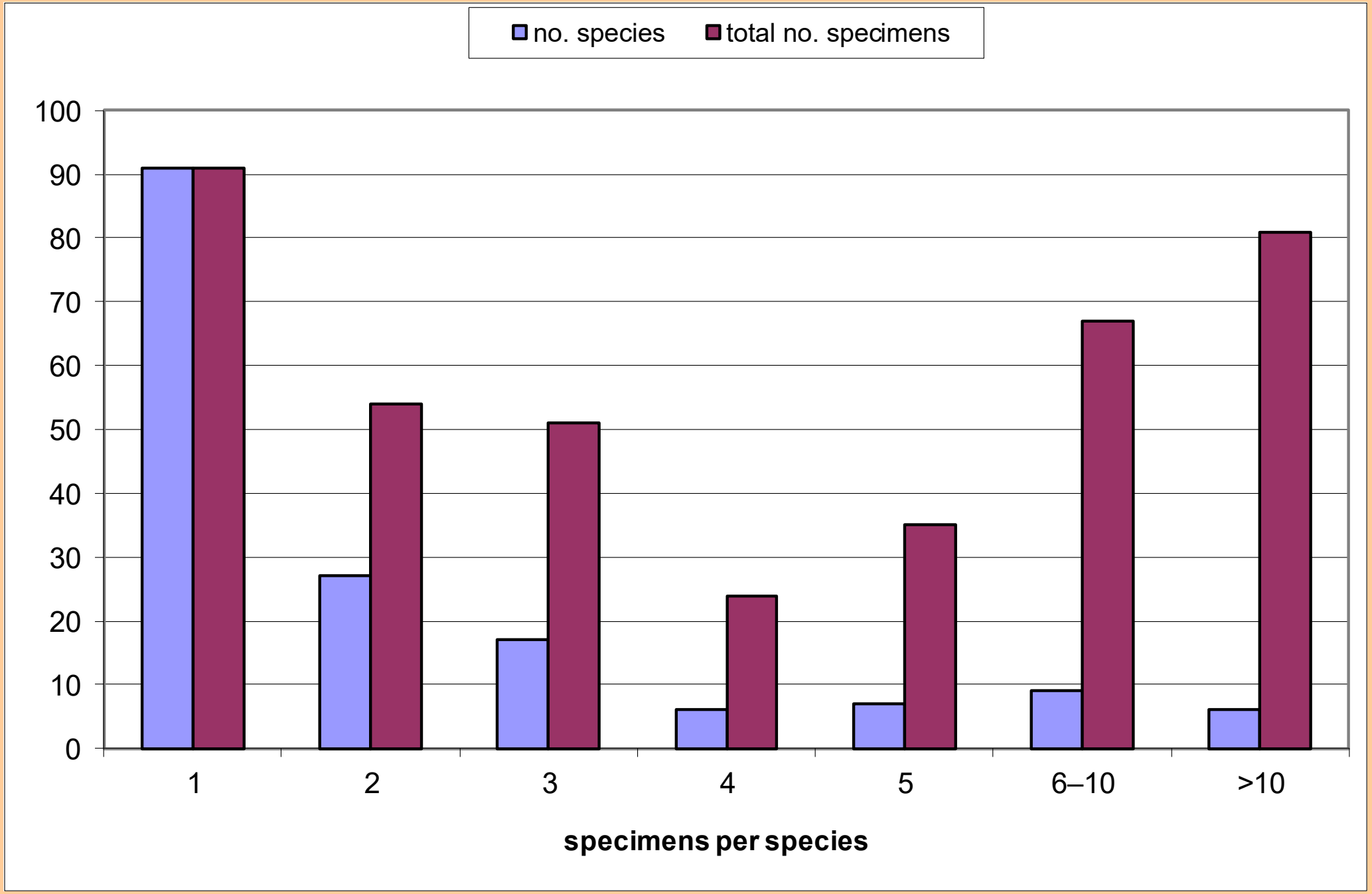




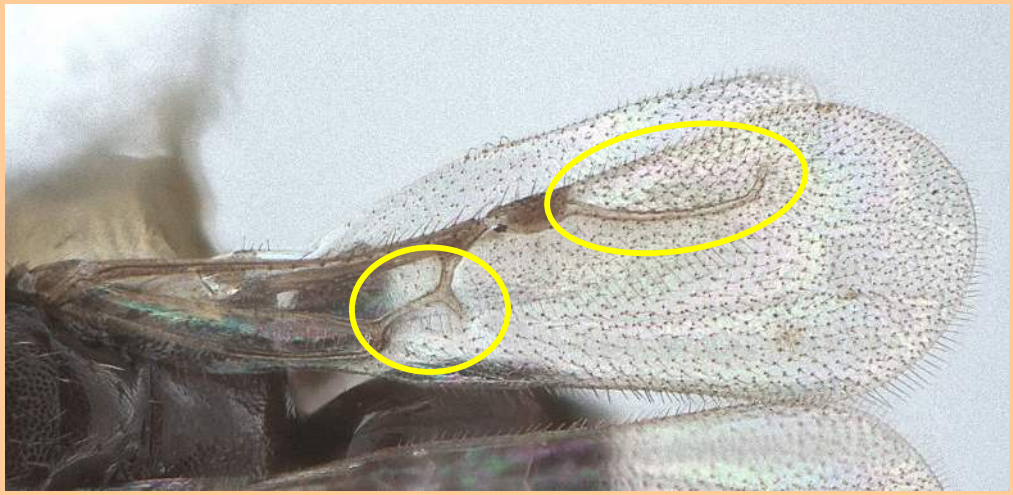




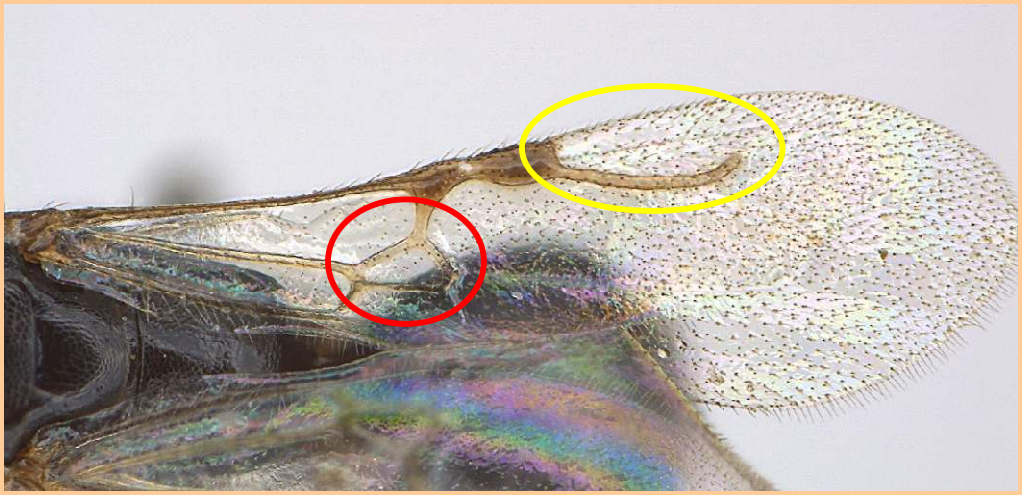


Timor Sea
Solomon Sea
Coral Sea
Australia
Great Australian Bight
ACT
TASMANIA
Tasman Sea


no. species
total no. specimens
100
90
80
70
60
50
40
30
20
10
0
1
2
3
4
5
6–10
>10
specimens per species

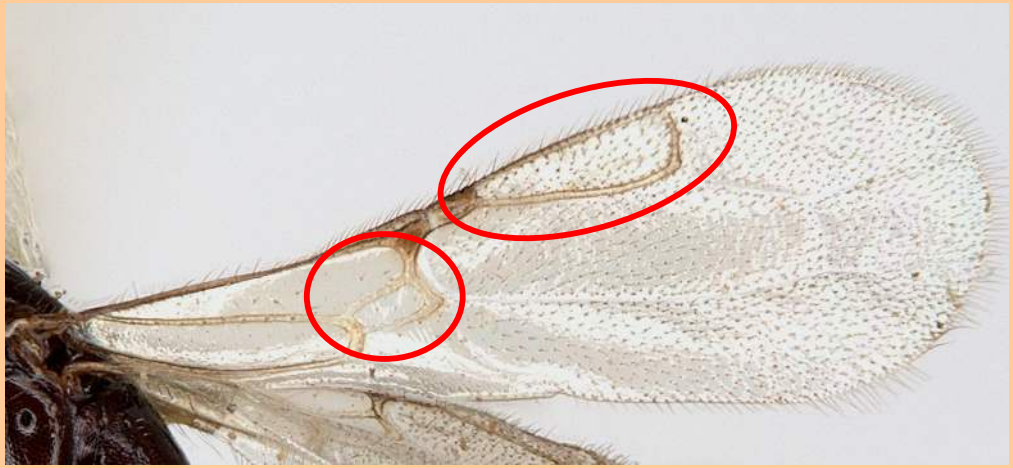
Goniozus s.s.



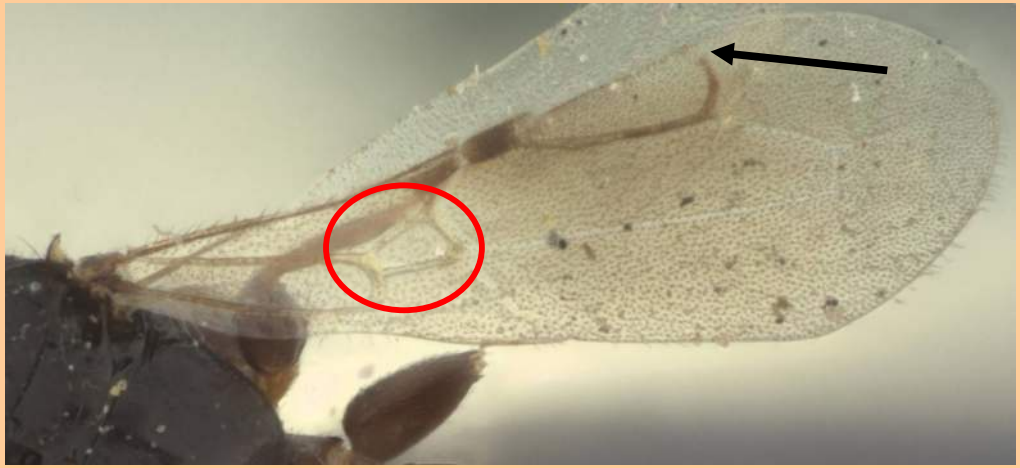
Goniozus (Parasierola)



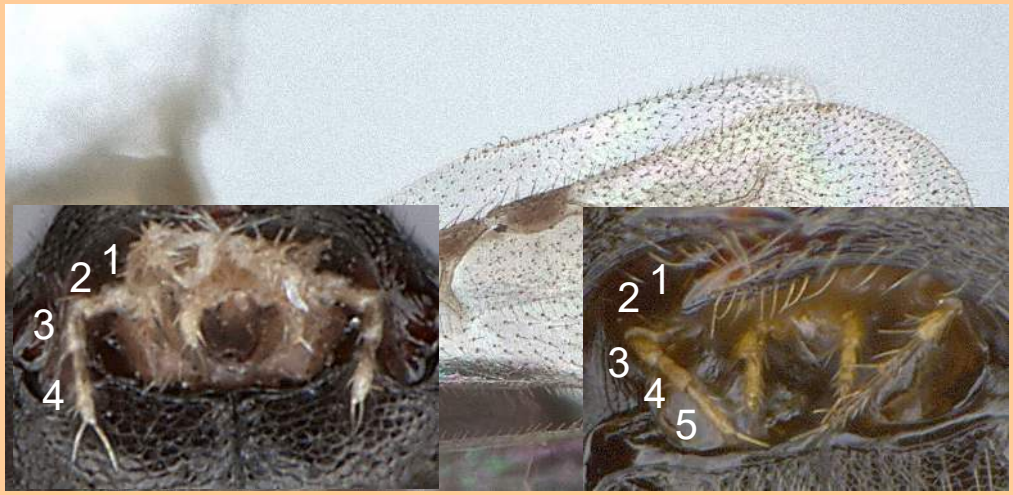
Sierola



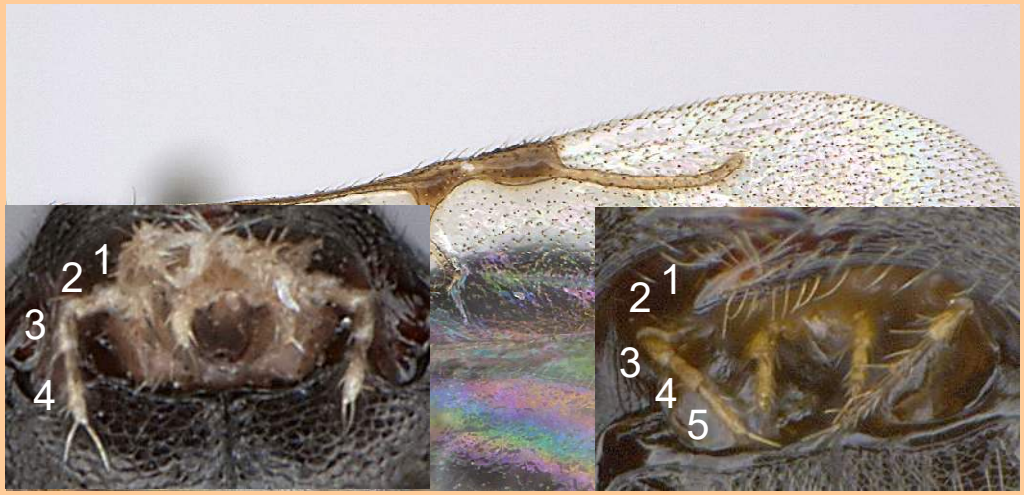
“Goniozus” angulatus



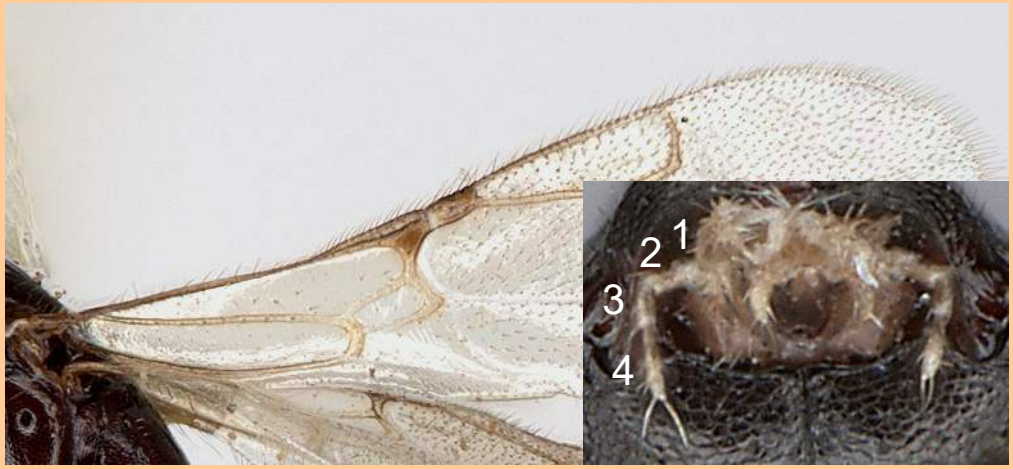
Goniozus s.s.



Goniozus (Parasierola)

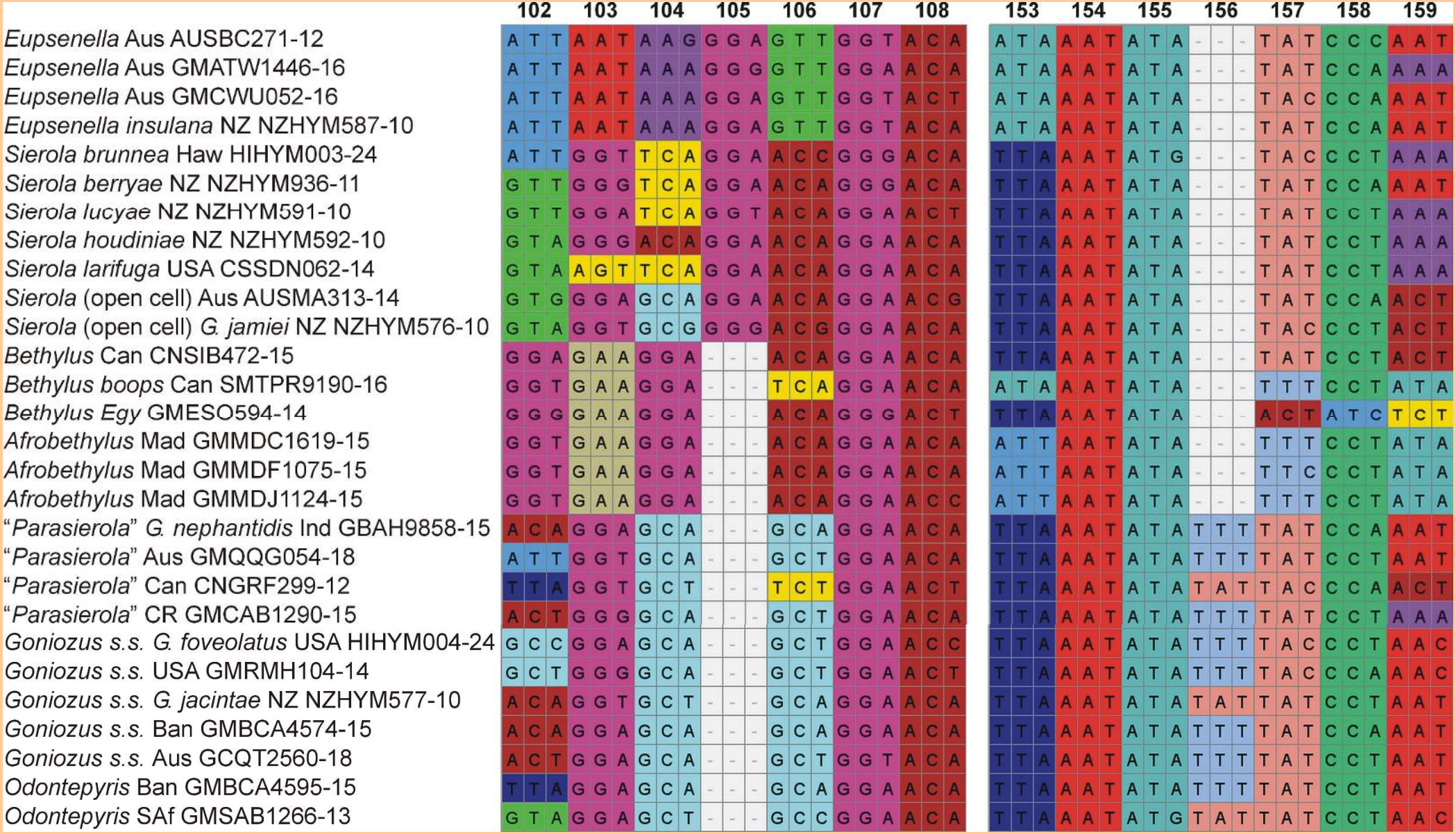


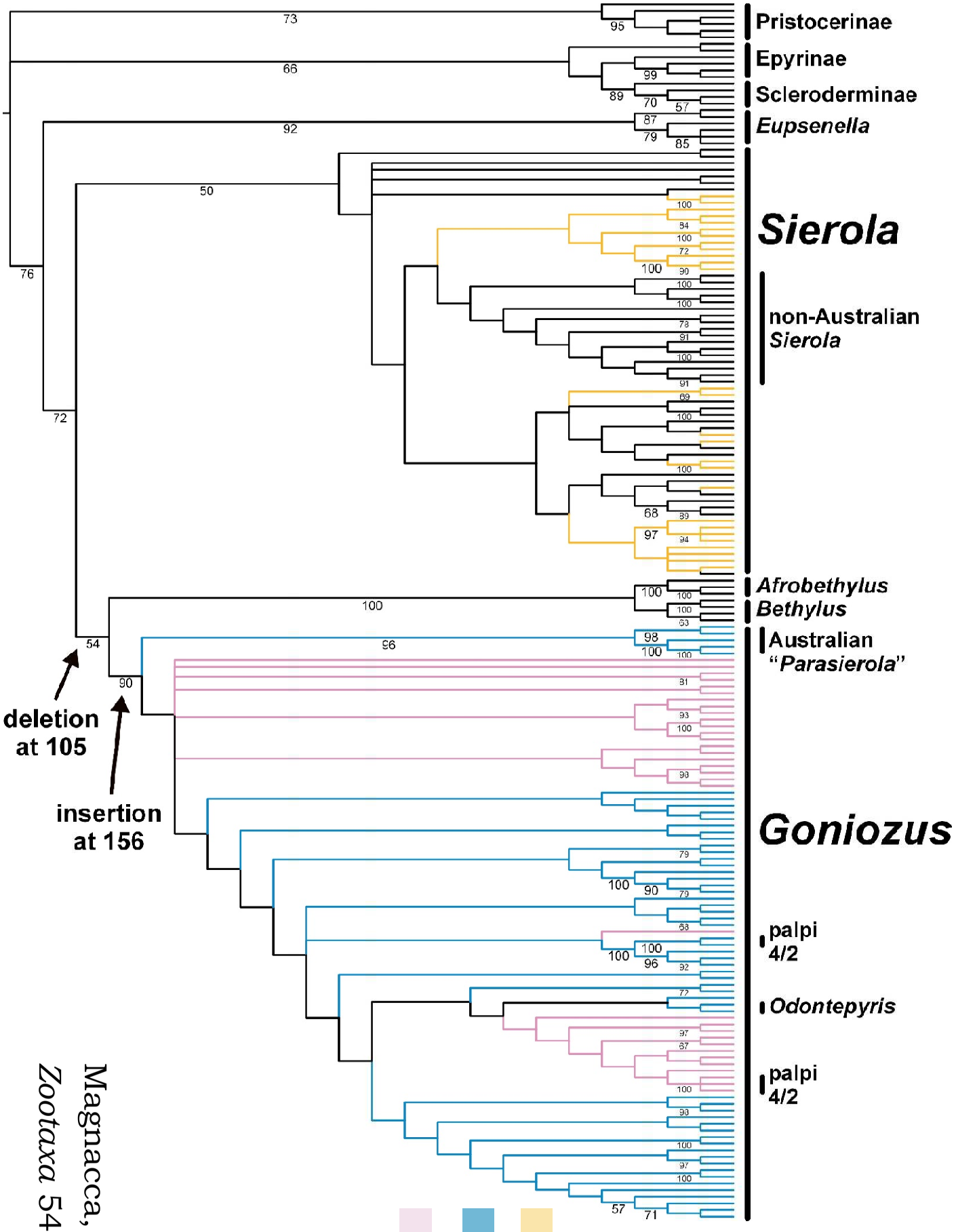
Sierola



“Goniozus” angulatus

COI “barcode” sequence

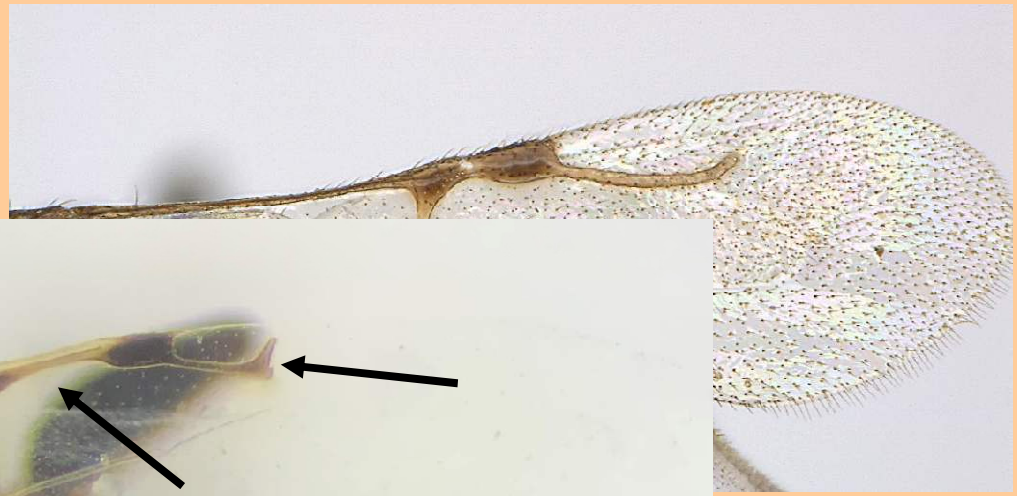




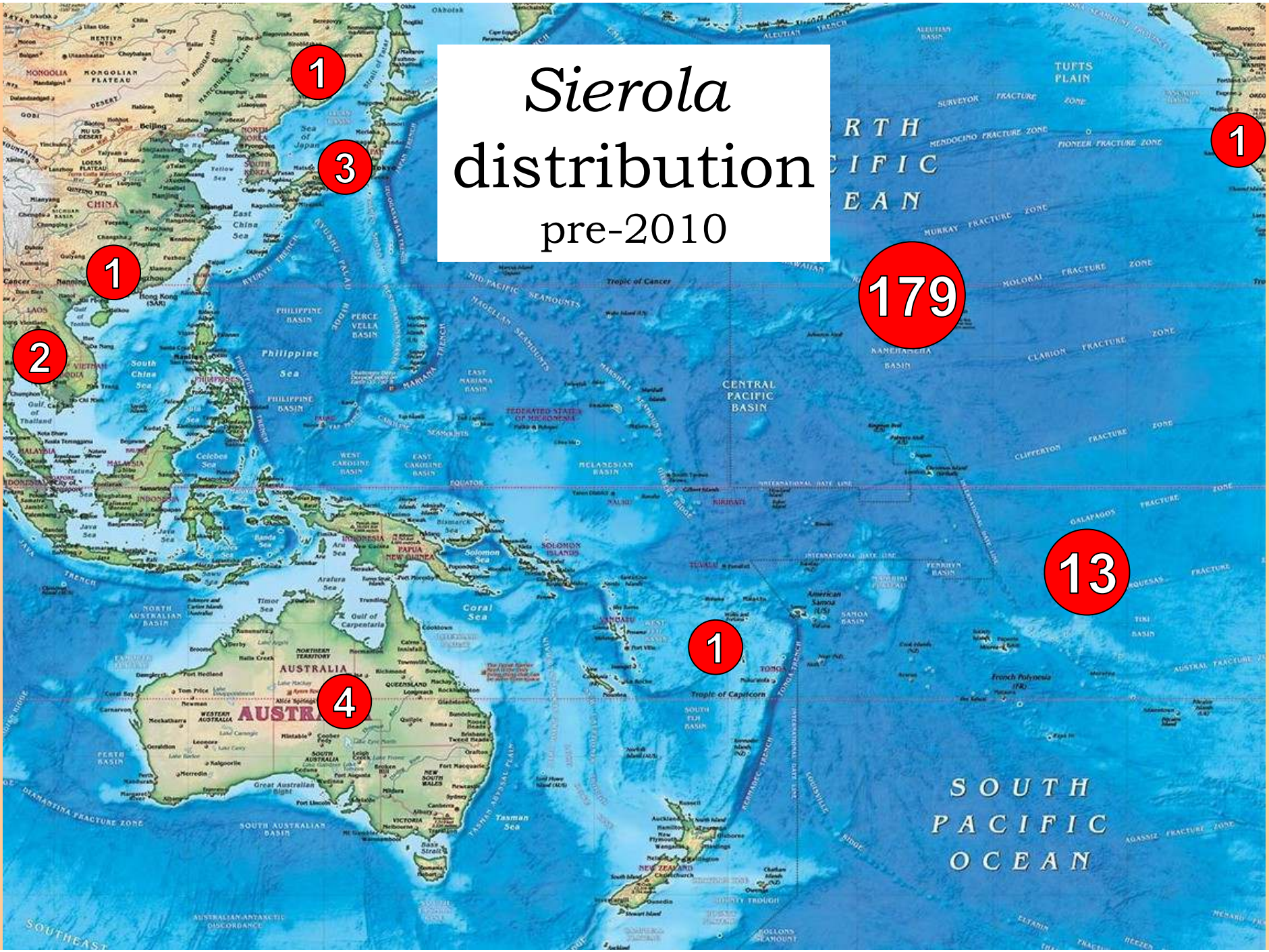
Magnacca, 2024
Zootaxa 5463(2): 215–231

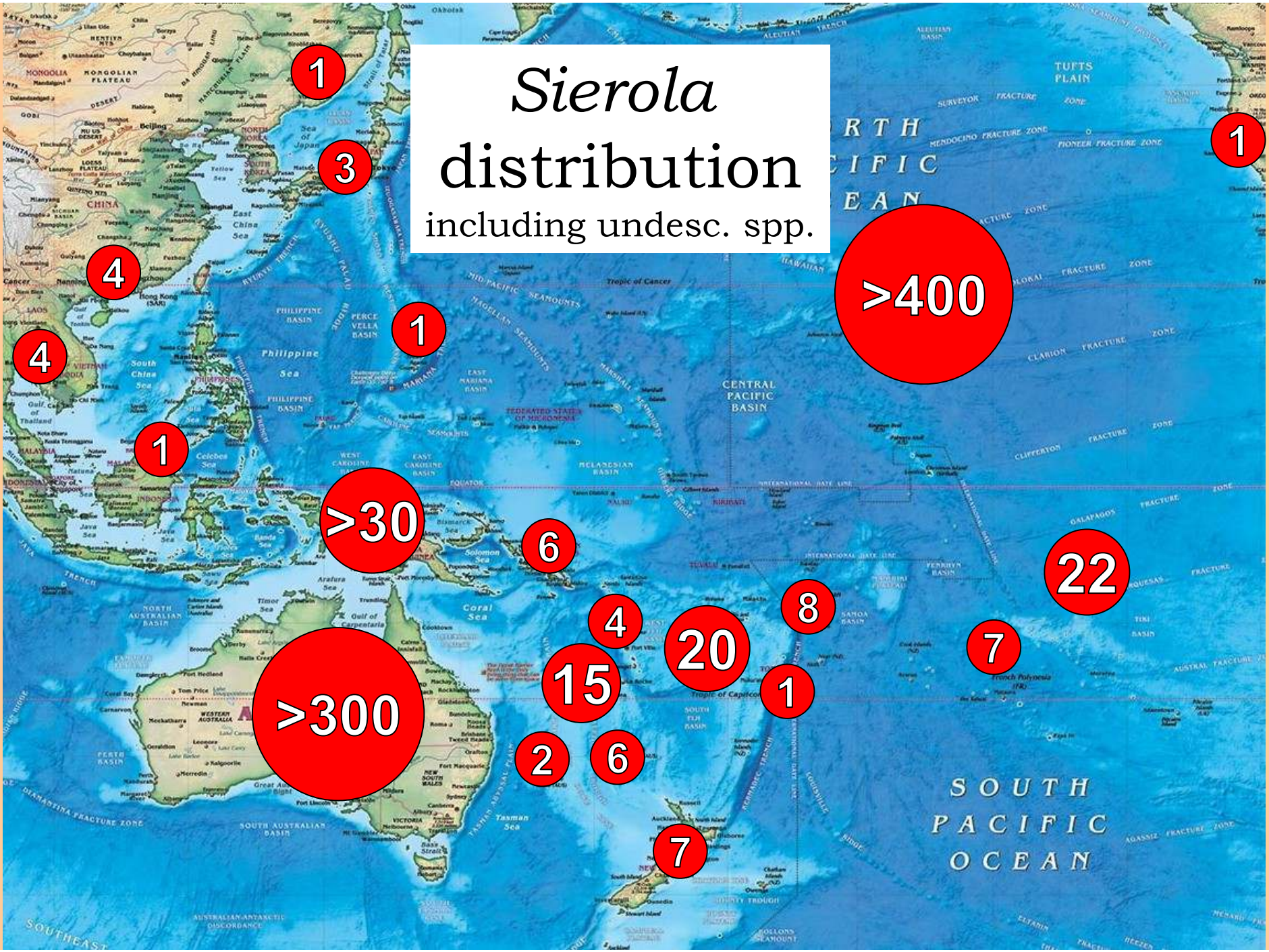
Goniozus s.s.

Goniozus (Parasierola)



ulatus


Sierola
distribution
pre-2010
1
3
1
2
179
1
13
1
4
SOUTH
PACIFIC
OCEAN


Sierola
distribution
including undesc. spp.
1
3
4
4
1
1
>30
>300
6
4
15
20
8
1
2
6
7
>400
1
22
7
SOUTH
PACIFIC
OCEAN

contact: Karl Magnacca
knm956@gmail.com
magnacca@hawaii.edu
https://hawaiianinsects.com

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