

comparison between iNaturalist observations and summary of published descriptions of Pergagrapta spinolae													
<i>Pergagrapta spinolae</i> Westwood	distribution	colour antennal flagellum	colour of head and associated structures	pronotum colour	scutellum		mesonotum colour	abdomen colour	fore wings colour	coxa	leg colour		special features
key distinguishing features in published descriptions from Westwood (1880), Morice (1919), Benson (1939)	NSW, VIC, QLD	black to brown	black to brown: with labrum and margins of clypeus dark or light yellow, antennal tubercles and genae yellow	black, with thin yellow hind margin	roughly square, with two yellow hind lobes, more convex in front and flattened behind so hind lobes reach above level of middle of scutellum	black	black, shiny, convex with longitudinal furrow in VIC, brown in NSW	female - black or brown with two yellow bands, one covering tergum 2, other 7,8,9. male - terga 1-4 yellow in middle but banded on front and hind margins with dark brown	hyaline, pale at base, darker towards apex, yellow stigma, blackish veins	fore legs with apex yellow, hind legs with yellow base	fore and mid legs with black base and pale apex, hind legs whitish basally and apex black	tibia of fore and mid legs black and yellow, hind legs yellow basally and black apically; tarsi of all legs yellow	Benson reports variation in colour of head, antennae, mesonotum, underside of abdomen: black in Victoria, brown in NSW, reddish-brown in QLD
iNaturalist observation #	Observation location												
77129576	Brisbane	agreed - reddish brown	agreed - reddish brown	reddish brown, not black	agreed	reddish brown, only anterior lobes black	reddish brown centrally, black laterally - central white spot on middle lobe, white lateral edges to side lobes	agreed - brown with yellow bands	agreed	black base, white apex	agreed	tibia fore and mid legs all pale yellow ; hind legs agreed; tarsi agreed	
135756980	Sunshine Coast	agreed - reddish brown	agreed - reddish brown	reddish brown, not black	agreed	reddish brown, only anterior lobes black	reddish brown centrally, black laterally - central white spot on middle lobe, white lateral edges to side lobes	agreed - brown with yellow bands	agreed	black base, white apex	agreed	tibia fore and mid legs all pale yellow ; hind legs agreed; tarsi agreed	
147991178	Maryborough	agreed - reddish brown club, black below	agreed - reddish brown	black anteriorly, brown posteriorly	agreed	reddish brown, only anterior lobes black	reddish brown centrally, black laterally - central white spot on middle lobe, white lateral edges to side lobes	no yellow bands	agreed	black base, white apex	agreed	tibia fore and mid legs all pale yellow ; hind legs agreed; tarsi agreed	
159041128	Brisbane	agreed - reddish brown club, black below	agreed - reddish brown	reddish brown, not black	agreed	reddish brown, only anterior lobes black	reddish brown centrally, black laterally - central white spot on middle lobe, white lateral edges to side lobes	no yellow bands	agreed	black base, white apex	agreed	tibia fore and mid legs all pale yellow ; hind legs agreed; tarsi agreed	
196079604	Brisbane	agreed - reddish brown flagellum, black scape/ pedicel	agreed - reddish brown	black anteriorly, brown posteriorly	agreed	reddish brown, only anterior lobes black	reddish brown centrally, black laterally - central white spot on middle lobe, white lateral edges to side lobes	agreed - brown with yellow bands	agreed	black base, white apex	agreed	tibia fore and mid legs all pale yellow ; hind legs agreed; tarsi agreed	
144571944	Blue Mountains	agreed - reddish brown club, black rest of antenna	agreed - reddish brown	all black	agreed	reddish brown, only anterior lobes black	reddish brown centrally, black laterally - central white spot on middle lobe, white lateral edges to side lobes	no yellow bands	agreed	black base, white apex	agreed	agreed	
199658225	ACT	agreed - reddish brown	agreed - reddish brown	black anteriorly, reddish-brown posteriorly	agreed	reddish brown	reddish brown - central white spot on middle lobe, white lateral edges to side lobes	no yellow bands	agreed	agreed	agreed	agreed	
206498805	West Gippsland	agreed - black	agreed - reddish brown	reddish brown, not black	agreed	reddish brown	reddish brown - white lateral edges to side lobes	no yellow bands	agreed	agreed	agreed	agreed	
139942327	Yarra Ranges	agreed - brown	agreed - reddish brown	reddish brown, not black	agreed	reddish brown	reddish brown - central white spot in middle lobe, white lateral edges to side lobes	no yellow bands	agreed	agreed	agreed	agreed	
38243040	Yarra Ranges	agreed - black	agreed - reddish brown	reddish brown, not black	agreed	reddish brown	reddish brown - central white spot in middle lobe, white lateral edges to side lobes	no yellow bands	agreed	agreed	agreed	agreed	
40164110	Western Melbourne	agreed - black	agreed - reddish brown	reddish brown, not black	agreed	reddish brown	reddish brown - central white spot in middle lobe, white lateral edges to side lobes	no yellow bands	agreed	agreed	all legs yellow/ orange with black apex	agreed	
150188691	Croajingolong NP	agreed - brown	agreed - reddish brown	reddish brown, not black	agreed	reddish brown	reddish brown - white lateral edges to side lobes	no yellow bands	agreed	agreed	fore and mid legs orange, hind legs black apex	agreed	
199741407	Dandenong	agreed - brown	agreed - reddish brown	reddish brown, not black	agreed	reddish brown, anterior border black	reddish brown - central white spot in middle lobe, white lateral edges to side lobes	no yellow bands	agreed	agreed	fore and mid legs orange, hind legs black apex	agreed	
198122186	Warrandyte	agreed - black	agreed - reddish brown	reddish brown, not black	agreed	reddish brown	reddish brown -, white lateral edges to side lobes	no yellow bands	agreed	agreed	all legs yellow basally, orange/ black apex	agreed	
199887083	Mornington Peninsula	agreed - black	agreed - reddish brown	reddish brown, not black	agreed	reddish brown	reddish brown -, white lateral edges to side lobes	no yellow bands	agreed	agreed	agreed	agreed	

Yellow cells show examples where the reported feature in that iNat observation differs from the original description of this species. Note that Benson (1939) reports variation in colour of head, antennae, mesonotum, underside of abdomen: black in Victoria, brown in NSW, reddish-brown in QLD.