

Entity	Value	Semantic
Body length universal	2575 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some float [\geq 2575.0]))
Body length universal	2200 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some float [\geq 2200.0]))
Body length universal	1500-2700 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 1500.0]))
Body length universal	1.4-1.7 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 1.0f]))
Body length universal	2.0-2.3 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 2.0f]))
Body length universal	1150-2300 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 1150.0]))
Body length universal	2450-3125 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 2450.0]))
Body length universal	2.6-2.7 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 2.6f]))
Body length universal	2100-2600 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 2100.0]))
Body length universal	5.3-6.6 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 5.3f]))
Body length universal	1750-2000 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 1750.0]))
Body length universal	6.5-6.8 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [\geq 6.5f]))

Entity	Value	Semantic
Body length universal	1750-2450 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 1750]))))
Body length universal	1650-1875 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 1650]))))
Body length universal	4.6-8.0 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 4.6]))))
Body length universal	2000-3450 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 2000]))))
Body length universal	2.4-2.6 mm	has part some (body and (bearer of some (has measurement unit label value some (float [≥ 2.4]) and float [≤ 2.6])))
Body length universal	2.4-3.0 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 2.4]))))
Body length universal	2325-2500 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 2325]))))
Body length universal	7.0-7.8 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 7.0]))))
Body length universal	1.8-1.9 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 1.8]))))
Body length universal	5.5-9.1 mm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 5.5]))))
Body length universal	1270-1300 μm	has part some (median anatomical line and measured as some ((has measurement unit measurement value some (float [≥ 1270]))))
Cephalic size (csb)	Mean: 4.8-6.0	has part some (absolute cephalic size and measured as some ((has measurement unit measurement value some (float [≥ 4.8]))))

Entity	Value	Semantic
Cephalic size (csb)	Mean: 2.0-4.5	has part some (absolute cephalic size and measured as some ((has measurement unit measurement value some (float [≥ 2.0]))
Color hue pattern	Scape, hind leg except metacoxa ochre; fore and hind legs, distal metacoxa yellow; rest of body brown	((not (scape)) and (part_of some (body part some (fore leg and (bearer of some (bearer of some yellow))) and (has part some (metafemur
Color hue pattern	Antenna except pedicel and scape, cranium, mesosoma except fore and middle legs and distal region of metacoxa, and metasoma brown; fore and middle legs. tegula, pedicel, scape, maxillary palp, and labial palp yellow	((not (pedicel)) and (part_of some (antenna has part some (not (scape)))) and (has part some (metacoxa and (bearer of some brown))) and (has part some (bearer of some brown))) and (has part some (labial palp part some (maxillary palp and (bearer of some brown))) and (has part some (mesosoma and (bearer of some brown))) and (has part some (bearer of some brown))) and (has part some (yellow))) and (has part some (pedicel and part some (scape and (bearer of some yellow)))
Color hue pattern	Legs except proximal region of metacoxa and distal 2/3 of metafemur, mouthparts, scape and F1 orange; rest of body brown	((not (mouthparts)) and (not (scape)) and (part_of some (body and (bearer of some brown))) and (part_of some (metacoxa and (bearer of some brown))) and (part_of some (metafemur and (part_of some (distal region and (part_of some (metafemur and (has part some (mouthparts and (bearer of some orange))) and (has part some (scape and (bearer of some orange))) and (has part some (bearer of some orange))) and (has part some (metacoxa and (bearer of some orange))) and (part_of some (metafemur and (part_of some (metafemur and (has part some (mouthparts and (bearer of some orange))) and (has part some (scape and (bearer of some orange))) and (has part some (bearer of some orange)))
Color hue pattern	Cranium, mesosoma brown; antenna, legs except brown metacoxa, metasoma ochre	((part_of some (leg and (bearer of some (metacoxa))) and (has part some (antenna part some (cranium and (bearer of some (bearer of some brown))) and (has part some (metacoxa and (bearer of some brown))) and (has part some (metasoma and (bearer of some ochre)))
Color hue pattern	Antenna except pedicel, cranium, mesosoma except fore and middle legs and distal region of metacoxa, and metasoma brown; fore and middle legs, tegula, pedicel, proximal region of metacoxa, maxillary palp, and labial palp yellow	((part_of some (antenna and (bearer of some (pedicel))) and (has part some (proximal region and (bearer of some yellow))) and (has part some (metacoxa and (bearer of some brown))) and (has part some (mesosoma and (bearer of some brown))) and (has part some (yellow))) and (has part some (labial palp part some (maxillary palp and (bearer of some brown))) and (has part some (mesosoma and (bearer of some brown))) and (has part some (bearer of some brown))) and (has part some (yellow))) and (has part some (pedicel and part some (scape and (bearer of some yellow)))

Entity**Value****Semantic**

Color hue pattern	scape, pedicel, F1-3, head, anterior mesosoma ochre, F4-F9, posterior mesosoma, metasoma brown, legs except darker proximal regions of meso and metacoxae yellow	<p>bearer of some yellow)))</p> <p>(has part some (cranium and (bearer of and ((proximal region and (part_of some and (part_of some mid coxa))) and (be (mesosoma and (has part some (anterior and (has part some (metacoxa and (has of some brown))))) and (has part some (region and (bearer of some brown))))) a some ochre)) and (has part some (scape part some (first flagellomere and (bearer second flagellomere and (bearer of some flagellomere and (bearer of some brown and (bearer of some ochre))) and (has p of some brown))) and (has part some (s brown))) and (has part some (seventh fl and (has part some (eighth flagellomere part some (ninth flagellomere and (bear</p>
Color hue pattern	Antenna except pedicel and scape, cranium, mesosoma except fore and middle legs and distal region of metacoxa, and metasoma brown; fore and middle legs, tegula, pedicel, scape, proximal part of metacoxa, palpus maxillaris, and palpus labialis yellow	<p>((not (pedicel)) and (part_of some (ant has part some (not (scape)))) and (has p some (metacoxa and (bearer of some ye region and (part_of some (metacoxa and part some (cranium and (bearer of some and (bearer of some yellow))) and (has some yellow))) and (has part some (ma and (has part some (mesosoma and (bea (metasoma and (bearer of some brown) bearer of some yellow))) and (has part s yellow))) and (has part some (scape and some (tegula and (bearer of some yellow</p>
Color hue pattern	F3-8, cranium, mandible, metasoma, tegula brown; legs, except brown proximal region of metacoxa and distal region of metafemur, scape, pedicel, F1-4 yellow	<p>((not (distal region and (part_of some m bearer of some yellow))) and (has part s some metacoxa))))) and (has part some (and (has part some (mandible and (bear metasoma and (bearer of some brown)))) of some yellow))) and (has part some (s has part some (tegula and (bearer of some flagellomere and (bearer of some yellow flagellomere and (bearer of some yellow and (bearer of some brown))) and (has p of some yellow))) and (has part some (f brown))) and (has part some (sixth flag and (has part some (seventh flagellomere part some (eighth flagellomere and (bea</p>
Color hue pattern	Dark brown except pedicel, proximal 1/5th of	<p>((not (fore leg)) and (not (mid leg)) and (scape)))) and (part_of some (body and (</p>

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	scape, fore and middle leg, mandible ochre/yellowish	<p>part some (not (pedicel))) and (has part some (scape and (bearer of some yellow bearer of some ochre))) and (has part some (ochre))) and (has part some (mid leg and some (pedicel and (bearer of some ochre</p>
Color hue pattern	Legs except proximal region of metacoxa and distal region of metafemur, mouthparts yellow; rest of body ochre	<p>((not (mouthparts)) and (part_of some (has part some (proximal region and (part_of some (ochre))) and (has part some (distal region and (bearer of some ochre))) and (has part some (yellow))) and (has part some (not (proximal region and (bearer of some yellow)))) and (has part_of some (metafemur and (bearer of</p>
Color hue pattern	Cranium, mesosoma except legs and metasoma except gonostipes and volsella ochre; antenna, legs, mandible, gonostipes and volsella yellow	<p>(has part some (antenna and (bearer of some cranium and (bearer of some ochre))) and (has part some (leg and (bearer of some yellow))) and (has part some (mandible and (bearer of some ochre))) and (has part some (mesosoma and (bearer of some ochre))) and (has part some (bearer of some ochre))) and (has part some (yellow)))</p>
Color hue pattern	Scape, F4-8, cranium, mandible, metasoma, tegula brown; legs, except brown proximal region of metacoxa and distal region of metafemur, pedicel, F1-3 yellow	<p>(has part some (proximal region and (part_of some brown))) and (has part some (distal region and (bearer of some brown))) and (has part some (brown))) and (has part some (mandible and (bearer of some ochre))) and (has part some (metasoma and (bearer of some ochre))) and (has part some (yellow))) and (has part some (brown))) and (has part some (tegula and (bearer of some brown))) and (has part some (first flagellomere and (bearer of some second flagellomere and (bearer of some brown flagellomere and (bearer of some brown))) and (has part some (bearer of some brown))) and (has part some (seventh flagellomere and (bearer of some brown))) and (has part some (eighth flagellomere and (bearer of some brown))) and (has part some (not (proximal region and (bearer of some yellow)))) and (has part some (metafemur and (bearer of some yellow</p>
Color hue pattern	Legs except proximal region of metacoxa and distal 2/3 of metafemur, mouthparts, distal 1/5 of scape, yellow; rest of body brown	<p>((not (mouthparts)) and (part_of some (has part some (proximal region and (part_of some brown))) and (has part some (distal region and (bearer of some yellow)))) and (has part some (yellow))) and (has part some (metafemur and (bearer of some brown))) and (has part some (scape and (bearer of some ochre))) and (has part some (brown))) and (has part some (yellow))) and (has part some (metacoxa and (bearer of some yellow region and (part_of some (scape and (bearer of some yellow))) and (has part some (not (distal region and (part_of some</p>

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Color hue pattern	Cranium, mandible, mesosoma excluding front and proximal middle tibia, metasoma, antenna excluding distal scape and pedicel brown; distal scape, pedicel, protibia and proximal mesotibia ochre	<p>yellow)))))))</p> <p>(has part some (proximal region and (part_of some ochre)))) and (has part some (distal region and (bearer_of some ochre)))) and (has part some (fore tibia and (bearer_of some brown)))) and (has part some (mandible and (bearer_of some brown)))) and (has part some (mesosoma and (bearer_of some brown)))) and (has part some (pedicel and (bearer_of some brown)))) and (has part some (scape and (bearer_of some ochre)))) and (has part some ((not (pedicel)) and (part_of some (scape and (bearer_of some (antenna and (bearer_of some brown)))))))</p>
Color hue pattern	Cranium black; mesosoma, metasoma, F4-F9 brown; rest of antenna, legs and mandible ochre	<p>(has part some (cranium and (bearer_of some ochre)))) and (has part some (mesosoma and (bearer_of some ochre)))) and (has part some (metasoma and (bearer_of some ochre)))) and (has part some (flagellomere and (bearer_of some ochre)))) and (has part some (flagellomere and (bearer_of some ochre)))) and (has part some (leg and (bearer_of some brown)))) and (has part some (mandible and (bearer_of some ochre)))) and (has part some (first flagellomere and (bearer_of some ochre)))) and (has part some (second flagellomere and (bearer_of some ochre)))) and (has part some (third flagellomere and (bearer_of some ochre)))) and (has part some (fourth flagellomere and (bearer_of some ochre)))) and (has part some (fifth flagellomere and (bearer_of some ochre)))) and (has part some (sixth flagellomere and (bearer_of some ochre)))) and (has part some (seventh flagellomere and (bearer_of some ochre)))) and (has part some (eighth flagellomere and (bearer_of some ochre)))) and (has part some (ninth flagellomere and (bearer_of some ochre))))</p>
Color hue pattern	Distal part of scape, pedicel, F1-3 ochre; legs except proximal metacoxa yellow; rest of body brown	<p>((not (pedicel)) and (not (first flagellomere)) and (not (third flagellomere)) and (part_of some (distal region and (bearer_of some ochre)))) and (has part some (not (distal region)) and (has part some (distal region and (part_of some (distal region and (bearer_of some ochre))))))) and (has part some (pedicel and (bearer_of some ochre)))) and (has part some (first flagellomere and (bearer_of some ochre)))) and (has part some (second flagellomere and (bearer_of some ochre)))) and (has part some (third flagellomere and (bearer_of some ochre)))) and (has part some (fourth flagellomere and (bearer_of some ochre)))) and (has part some (fifth flagellomere and (bearer_of some ochre)))) and (has part some (sixth flagellomere and (bearer_of some ochre)))) and (has part some (seventh flagellomere and (bearer_of some ochre)))) and (has part some (eighth flagellomere and (bearer_of some ochre)))) and (has part some (ninth flagellomere and (bearer_of some ochre)))) and (has part some (metacoxa and (bearer_of some ochre)))) and (part_of some (metacoxa and (bearer_of some ochre))))</p>
Color hue pattern	Antenna, legs, mouthparts ochre; rest of body dark brown	<p>(has part some (antenna and (bearer_of some ochre)))) and (not (antenna)) and (not (leg)) and (has part some (leg and (bearer_of some dark brown)))) and (has part some (leg and (bearer_of some ochre)))) and (has part some (mouthparts and (bearer_of some ochre))))</p>
Color hue pattern	Cranium brown; mesosoma except legs, metasoma ochre; F4-F9 brown; rest of antenna ochre, legs yellow	<p>(has part some (cranium and (bearer_of some brown)))) and (has part some (mesosoma and (bearer_of some ochre)))) and (has part some (metasoma and (bearer_of some ochre)))) and (has part some (first flagellomere and (bearer_of some ochre)))) and (has part some (second flagellomere and (bearer_of some ochre)))) and (has part some (third flagellomere and (bearer_of some ochre)))) and (has part some (fourth flagellomere and (bearer_of some ochre)))) and (has part some (fifth flagellomere and (bearer_of some ochre)))) and (has part some (sixth flagellomere and (bearer_of some ochre)))) and (has part some (seventh flagellomere and (bearer_of some ochre)))) and (has part some (eighth flagellomere and (bearer_of some ochre)))) and (has part some (ninth flagellomere and (bearer_of some ochre)))) and (has part some (leg and (bearer_of some yellow))))</p>

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Color hue pattern female	Cranium except supraclypeal depression and mesosoma except posteroventral region metallic brown/purple; F9, distal and proximal region of scape, supraclypeal depression, abdomen, dorsal proximal regions of femur and tibia brown; F1-F5, pedicel, scape exce	<p>bearer of some brown))) and (has part some brown)))</p> <p>(has part some abdomen and (bearer of some metasomal segment and (bearer of some white))) and (has part some white))) and (has part some fifth white))) and (has part some third flagellomere and (has part some fourth flagellomere and (has part some ((not (postero-ventral region)) and (of some iridescent and (bearer of some distal region)) and (not (ventral region)) some brown)))) and (has part some ((not scape and (bearer of some white)))) and (depression)) and (part of some cranium bearer of some brown)))))))</p>
Color hue pattern male	Cranium, mesosoma, F1-9, pedicel, distal region of hind femur, abdomen brown; scape, forelegs and midlegs, tibia of hind leg yellow; Hind coxa and petiole neck white	<p>(has part some distal region and (part brown)))) and (has part some abdomen part some first metasomal segment and (some cranium and (bearer of some brown bearer of some yellow)) and (has part some brown)) and (has part some metacoxa part some mid leg and (bearer of some and bearer of some brown))) and (has part some scape of some brown))) and (has part some fifth flagellomere and (has part some third flagellomere and (part some fourth flagellomere and (bearer sixth flagellomere and (bearer of some brown flagellomere and (bearer of some brown flagellomere and (bearer of some brown flagellomere and (bearer of some brown)) and (part of some hind leg and (bearer)))))))</p>
Color intensity pattern	Legs lighter than scape and mandible	<p>has part some leg and (bearer of some increased_in_magnitude_relative_to some inheres in some scape)))))))</p>
Color intensity pattern	flagellum, tibiae and tarsi lighter than scape, pedicel, mandible, tegula, coxae and femora	<p>has part some flagellum and tarsomere and (brightness and (increased_in_magnitude_relative_to some coxa and femur and mandible and pedicel and scape)))))))</p>
Color intensity pattern	flagellomeres and their branches darker than scape and pedicel. Scape and pedicel same as legs	<p>has part some flagellomere and (bearer of some decreased_in_magnitude_relative_to some inheres in some scape)))))))</p>

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Color intensity pattern	metasoma and mandible lighter than mesosoma	has part some (mandible and metasoma and (increased_in_magnitude_relative_to some mesosoma))))))
Color intensity pattern	metasoma lighter than mesosoma and cranium	has part some (metasoma and (bearer of increased_in_magnitude_relative_to some inheres in some mesosoma))))))
Color intensity pattern	ventral region of cranium is lighter than dorsal region of cranium	has part some (ventral region and (part_of color_brightness and (increased_in_magnitude_relative_to some inheres in some (dorsal region and
Color intensity pattern	front and middle leg lighter than distal half of scape, pedicel and tegula; cranium, distal region of flagellum, mesosoma except legs and petiole neck darker than proximal region of flagellum, hind leg and metasoma posterior to petiole neck and mesosoma d	(has part some (cranium and mesosoma and flagellum)) and (bearer of some (color_brighter_than increased_in_magnitude_relative_to some distal region and (part_of some flagellum and (has part some (fore leg and mid leg and (increased_in_magnitude_relative_to some (pedicel and tegula and (distal region
Color intensity pattern	distal scape, legs except hind coxa lighter than metasoma	(has part some (distal region and (part_of color_brighter_than and (has part some (not (metacoxa)))))) and (increased_in_magnitude_relative_to some metasoma))))))
Cupula length vs. gonostyle-volsella complex length	cupula less than 1/2 the length of gonostyle-volsella complex in lateral view	has part some (cupula and (bearer of some (has measurement unit label some (gonostipes/volsella complex)))) and (has measurement unit label some (0.5f))))))
Cupula length vs. gonostyle-volsella complex length	cupula as long as gonostipes in lateral view	has part some (cupula and (has part some (bearer of some (length and (similar_in_length inheres in some (proximodistal_anatomic_complex gonostipes/volsella complex))))))))
Distal end of dorsomedian conjunctiva of the gonostyle-volsella complex shape	acute	has part some (dorsomedian conjunctiva and (has part some (distal margin and (bearer of acute))))))
Distal end of dorsomedian conjunctiva of the gonostyle-volsella complex shape	blunt	has part some (dorsomedian conjunctiva and (has part some (distal margin and (bearer of blunt))))))
Distal margin of harpe in lateral view: shape	blunt	has part some (harpe and (has part some (distal margin and (bearer of blunt))))))

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Distal margin of harpe in lateral view: shape	acute	has part some (harpe and (has part some acute)))
Distal margin of male S9 shape	concave	has part some (abdominal sternum 9 and bearer of some concave)))
Distal margin of male S9 shape	convex	has part some (abdominal sternum 9 and bearer of some convex)))
Distal margin of male S9 shape	straight	has part some (abdominal sternum 9 and bearer of some straight)))
Distal projection of parossiculus presence	absent	not (has part some distal projection of the)))
Distal projection of parossiculus presence	present	has part some distal projection of the par)))
Distal projection of the penisvalva count	absent	not (has part some distal projection of the)))
Distal projection of the penisvalva count	present	has part some distal projection of the pen)))
Distodorsal margin of cupula shape	straight	has part some (cupula and (has part some margin and (bearer of some straight))))))
Distodorsal margin of cupula shape	concave	has part some (cupula and (has part some margin and (bearer of some concave))))))
Distodorsal setae of sensillar ring of harpe length vs. harpe width in lateral view	>2	has part some (sensillar ring of harpe and part some (distal margin and (has part some (proximodistal anatomical line and measured as some (has measurement uni harpe width)))) and (has measurement v)))
Distodorsal setae of sensillar ring of harpe length vs. harpe width in lateral view	setae as long or shorter than harpe width	has part some (sensillar ring of harpe and part some (distal margin and (has part some (proximodistal anatomical line and measured as some (has measurement uni harpe width)))) and (has measurement v)))
Distodorsal setae of sensillar ring of harpe length vs. harpe width in lateral view	setae longer than harpe width	has part some (sensillar ring of harpe and part some (distal margin and (has part some (proximodistal anatomical line and measured as some (has measurement uni harpe width)))) and (has measurement v)))
Distodorsal setae of sensillar ring of harpe orientation	distomedially	has part some (sensillar ring of harpe and part some (distal margin and (has part some (proximodistal anatomical line and measured as some (has measurement uni harpe width)))) and (has measurement v)))

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Distodorsal setae of sensillar ring of harpe orientation	medially	some (medial orientation and (bearer of has part some (sensillar ring of harpe and part some (distal margin and (has part some medial orientation))))))))
Distodorsal setae of sensillar ring of harpe orientation	dorsally	has part some (sensillar ring of harpe and part some (distal margin and (has part some dorsal orientation))))))))
Distoventral submedian corner of cupula count	absent	not (has part some proximolateral projec
Distoventral submedian corner of cupula count	present	has part some proximolateral projection o
Dorsal apodeme of the penisvalva: presence	absent	not (has part some dorsal apodeme of pe
Dorsal apodeme of the penisvalva: presence	present	has part some dorsal apodeme of penisva
Dorsal margin of occipital carina vs. dorsal margin of lateral ocellus in lateral view	occipital carina is ventral to lateral ocellus in lateral view	has part some (occipital carina and (has some dorsal margin) and (ventral_to some lateral side and (part_of some lateral oce
Dorsal margin of occipital carina vs. dorsal margin of lateral ocellus in lateral view	occipital carina is dorsal to lateral ocellus in lateral view	has part some (occipital carina and (has some dorsal margin) and (dorsal_to some lateral side and (part_of some lateral oce
Dorsomedial conjunctiva of the gonostyle/volsella complex count	absent	not (has part some dorsomedian conjunc
Dorsomedial conjunctiva of the gonostyle/volsella complex count	present	has part some dorsomedian conjunctiva o
Dorsomedial conjunctiva of the gonostyle/volsella complex length relative to length of gonostyle/volsella complex	dorsomedial conjunctiva extending 2/3 of length of gonostyle/volella complex in dorsal view	has part some (dorsomedian conjunctiva bearer of some (length and ((is quality n label some (length and (inheres in some measurement value some float [$\geq 0.66f$]))
Dorsomedial conjunctiva of the gonostyle/volsella complex length relative to length of gonostyle/volsella complex	dorsomedial conjunctiva not extending 2/3 of length of gonostyle/volsella complex in dorsal view	has part some (dorsomedian conjunctiva bearer of some (length and ((is quality n label some (length and (inheres in some measurement value some float [$< 0.66f$]))
Epicnemial carina presence	present only medially	has part some (epicnemial carina and (no part some medial region))

Entity	Value	Semantic
Epicnemial carina presence	complete	has part some (epicnemial carina and (has part some medial region))
Epicnemial carina presence	interrupted medially	has part some (epicnemial carina and (not
Epicnemial carina presence	present only laterally	has part some (epicnemial carina and (not has part some lateral region))
Epicnemial carina presence	absent	not (has part some epicnemial carina)
Epicnemium posterior margin shape	anterior discriminal pit absent; epicnemial carina straight	(not (has part some anterior discriminal carina and (not (bearer of some curved))
Epicnemium posterior margin shape	anterior discriminal pit present; epicnemial carina curved	(has part some anterior discriminal pit) and (bearer of some curved))
Epicnemium posterior margin shape	anterior discriminal pit absent, epicnemial carina interrupted medially	(not (has part some anterior discriminal region and (part_of some epicnemial carina))
Epicnemium posterior margin shape	anterior discriminal pit absent, epicnemial carina curved	(not (has part some anterior discriminal carina and (bearer of some curved)))
Facial pit count	facial process present	has part some facial process
Facial pit count	facial pit present	has part some facial pit
Facial pit count	median facial keel present	has part some median facial keel
Facial pit count	no external corresponding structure present	(not (has part some facial pit)) or (not (has part some facial process))
Female F9 length	$F8+F7 \leq F7+F8+F6$	has part some ((seventh flagellomere and (anatomical line and (bearer of some length)) part some (proximodistal anatomical line decreased_in_magnitude_relative_to some proximodistal anatomical line and (part_of length and (inheres in some (proximodistal eighth flagellomere))))))
Female F9 length	$F9=F7+F8$	has part some (ninth flagellomere and (anatomical line and (bearer of some (length and (part_of length and (inheres in some (proximodistal seventh flagellomere))))) and (length and

Entity	Value	Semantic
Female F9 length	F9<F8+F7	anatomical line and (part_of some eighth flagellomere and (has part some (ninth flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some eighth flagellomere))))))) and (length and (inheres_in some (proximodistal anatomical line and (part_of some eighth flagellomere)))))))
Female F9 length	F9=F8	has part some (ninth flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some eighth flagellomere)))))))
Female F9 length	F9=F6+F7+F8	has part some (ninth flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some eighth flagellomere))))))) and (length and (inheres_in some (proximodistal anatomical line and (part_of some seventh flagellomere))))))) and (length and (inheres_in some (proximodistal anatomical line and (part_of some seventh flagellomere)))))))
Female first flagellomere length vs. pedicel	0.9-1.0	has part some (first flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) and (has measurement value some (has measurement unit label some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel)))))))
Female first flagellomere length vs. pedicel	0.7	has part some (first flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) and (has measurement value some (has measurement unit label some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) [$\geq 0.7f$])
Female first flagellomere length vs. pedicel	0.9	has part some (first flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) and (has measurement value some (has measurement unit label some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) [$\geq 0.9f$])
Female first flagellomere length vs. pedicel	0.8-1.16	has part some (first flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) and (has measurement value some (has measurement unit label some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel)))))))
Female first flagellomere length vs. pedicel	0.8-0.9	has part some (first flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) and (has measurement value some (has measurement unit label some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) [$\geq 0.9f$])
Female first flagellomere length vs. pedicel	F1 as long as pedicel (1.0-1.1)	has part some (first flagellomere and (line and (bearer_of some (length and (distal some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel))))))) and (has measurement value some (has measurement unit label some (length and (inheres_in some (proximodistal anatomical line and (part_of some pedicel)))))))

Entity	Value	Semantic
Female first flagellomere length vs. pedicel	0.8-1.2	has part some (first flagellomere and (bearer of some (length and (measurement unit label some (length and some proximodistal anatomical line)))) and (has measurement value pedicel)))
Female first flagellomere length vs. pedicel	1.0	has part some (first flagellomere and (bearer of some (length and (measurement unit label some (length and some proximodistal anatomical line)))) and (has measurement value pedicel)))) [$\geq 1.0f$])
Female first flagellomere length vs. pedicel	F1 is 1.5 times as long as pedicel	has part some (first flagellomere and (bearer of some (length and (measurement unit label some (length and some proximodistal anatomical line)))) and (has measurement value pedicel)))) [$\geq 1.5f$])
Female first flagellomere length vs. pedicel	pedicel longer than F1	has part some (pedicel and (has part some (first flagellomere and (bearer of some (length and (measurement unit label some (length and some proximodistal anatomical line)))) and (part pedicel)))) increased in magnitude relative to some (proximodistal anatomical line))
Female first flagellomere length vs. pedicel	0.85	has part some (first flagellomere and (bearer of some (length and (measurement unit label some (length and some proximodistal anatomical line)))) and (has measurement value pedicel)))) [$\geq 0.85f$])
Female first flagellomere length vs. pedicel	1.4	has part some (first flagellomere and (bearer of some (length and (measurement unit label some (length and some proximodistal anatomical line)))) and (has measurement value pedicel)))) [$\geq 1.4f$])
Female first flagellomere length vs. pedicel	1.09	has part some (first flagellomere and (bearer of some (length and (measurement unit label some (length and some proximodistal anatomical line)))) and (has measurement value pedicel)))) [$\geq 1.09f$])
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	0.85:0.85:1.00	(has part some (ocular ocellar line and (measured as some (has measurement unit label lateral ocellar line))) and (has measurement value posterior ocellar line)) and (has part some (posterior ocellar line and (measured as some (has measurement unit label lateral ocellar line))) and (has measurement value posterior ocellar line))
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.4:1.6-1.7:1.0	(has part some (ocular ocellar line and (measured as some (has measurement unit label lateral ocellar line))) and (has measurement value posterior ocellar line)) and (has part some (posterior ocellar line and (measured as some (has measurement unit label lateral ocellar line))) and (has measurement value posterior ocellar line))

Entity	Value	Semantic
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	2.5-3.0:1.9-2.0:1.0	<p>measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 1.7f)))))</p> <p>(has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 3.0f))))) and (has part some (posterior ocellar line and (is quality measured as some (has measurement unit 1.9f , <= 2.0f))))) and (inheres in some lateral ocellar line)))) and (has measurement unit 1.9f , <= 2.0f)))))</p>
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.7-2.3:1.7-1.8:1.0	<p>(has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 2.3f))))) and (has part some (posterior ocellar line and (is quality measured as some (has measurement unit 1.7f , <= 1.8f))))) and (inheres in some lateral ocellar line)))) and (has measurement unit 1.7f , <= 1.8f)))))</p>
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.0:1.2:1.0	<p>(has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 1.0))))) and (has part some (posterior ocellar line and (measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 1.0)))))</p>
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.5-2.1:1.2-1.4:1.0	<p>(has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 2.1f))))) and (has part some (posterior ocellar line and (is quality measured as some (has measurement unit 1.2f , <= 1.4f))))) and (inheres in some lateral ocellar line)))) and (has measurement unit 1.2f , <= 1.4f)))))</p>
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.4:1.0-1.2:1.0	<p>(has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 1.4))))) and (has part some (posterior ocellar line and (measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 1.2f)))))</p>
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.0-1.1:1.4:1.0	<p>(has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line)))) and (has measurement unit 1.1f))))) and (has part some (posterior ocellar line and (is quality measured as some (has measurement unit 1.4))))) and (inheres in some lateral ocellar line)))) and (has measurement unit 1.1f)))))</p>

Entity	Value	Semantic
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.2-1.3:1.0:1.0	1.0f])))))) (has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line))) and (has measurement unit 1.3f])))))) and (has part some (posterior ocellar line and (is quality measured as some (has measurement unit lateral ocellar line))) and (inheres in some lateral ocellar line))) and (has measurement unit 1.0f]))))))
Female ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	3.4:2.1-2.2:1.0	(has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line))) and (has measurement unit has part some (posterior ocellar line and (measured as some (has measurement unit lateral ocellar line))) and (has measurement unit 2.2f]))))))
Female OOL vs. LOL	OOL 1.0-1.2 x as long as LOL	has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line))) and (has measurement unit 1.2f]))))))
Female OOL vs. LOL	OOL 1.9-2.1 x as long as LOL	has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line))) and (has measurement unit 2.1f]))))))
Female OOL vs. LOL	2: OOL 1.5-2.5 x as long as LOL	has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line))) and (has measurement unit 2.5f]))))))
Female OOL vs. LOL	OOL 0.625-0.75 as long as LOL	has part some (ocular ocellar line and (measured as some (has measurement unit lateral ocellar line))) and (has measurement unit 0.75f]))))))
Harpe length	harpe as long as gonostipes in lateral view	has part some (harpe and (has part some bearer of some (length and (similar_in_relationship inheres in some (proximodistal anatomical structure gonostipes)))))))
Harpe length	harpe shorter than gonostipes in lateral view	has part some (harpe and (has part some bearer of some (length and (decreased_in_relationship inheres in some (proximodistal anatomical structure)))))))

Entity	Value	Semantic
Head height (lateral view) vs eye height (anterior view)	HH/EH=1.4-1.8	has part some (head height and (bearer of as some (has measurement unit label some (height)))) and (has measurement value some (height))))
Head height (lateral view) vs eye height (anterior view)	HH:EHf=1.0-2.0	has part some (head height and (bearer of as some (has measurement unit label some (height)))) and (has measurement value some (height))))
Head height vs. head length	HH:HL=1.5-2.0	has part some (head height and (bearer of as some (has measurement unit label some (length)))) and (has measurement value some (length))))
Head height vs. head length	HH/HL=1.4-1.8	has part some (head height and (bearer of as some (has measurement unit label some (length)))) and (has measurement value some (length))))
Head height vs. head length	HH:HL=1.0-1.5	has part some (head height and (bearer of as some (has measurement unit label some (length)))) and (has measurement value some (length))))
Head width vs. head height	HW/HH=1.0-1.5	has part some (head width and (bearer of as some (has measurement unit label some (height)))) and (has measurement value some (height))))
Head width vs. head height	HW/HH=1.2-1.4	has part some (head width and (bearer of as some (has measurement unit label some (height)))) and (has measurement value some (height))))
Head width vs. interorbital space	HW/IOS=1.8-2.0	has part some (head width and (bearer of as some (has measurement unit label some (interorbital space)))) and (has measurement value some (interorbital space)))) (2.0f)))))
Head width vs. interorbital space	HW/IOS=2.0-2.5	has part some (head width and (bearer of as some (has measurement unit label some (interorbital space)))) and (has measurement value some (interorbital space)))) (2.5f)))))
Head width vs. interorbital space (HW/IOS) Female	2.2	has part some (head width and (bearer of as some (has measurement unit label some (interorbital space)))) and (has measurement value some (interorbital space))))
Head width vs. interorbital space (HW/IOS) Female	2.3	has part some (head width and (bearer of as some (has measurement unit label some (interorbital space)))) and (has measurement value some (interorbital space))))
Head width vs. interorbital space (HW/IOS) Female	1.7-1.8	has part some (head width and (bearer of as some (has measurement unit label some (interorbital space)))) and (has measurement value some (interorbital space))))

Entity	Value	Semantic
		interorbital space)))) and (has measurement 1.8f)))))
Head width vs. interorbital space (HW/IOS) Female	2.4	has part some (head width and (bearer of as some (has measurement unit label some interorbital space)))) and (has measurement 1.8f)))))
Head width vs. interorbital space (HW/IOS) Female	2.3-2.6	has part some (head width and (bearer of as some (has measurement unit label some interorbital space)))) and (has measurement 2.6f)))))
Head width vs. interorbital space (HW/IOS) Female	1.6-1.7	has part some (head width and (bearer of as some (has measurement unit label some interorbital space)))) and (has measurement 1.7f)))))
Head width vs. interorbital space (HW/IOS) Female	2.3-2.7	has part some (head width and (bearer of as some (has measurement unit label some interorbital space)))) and (has measurement 2.7f)))))
Head width vs. interorbital space (HW/IOS) Female	2.3-2.4	has part some (head width and (bearer of as some (has measurement unit label some interorbital space)))) and (has measurement 2.4f)))))
Head width vs. interorbital space (HW/IOS) Female	2.0-2.2	has part some (head width and (bearer of as some (has measurement unit label some interorbital space)))) and (has measurement 2.2f)))))
Head width vs. interorbital space (HW/IOS) Female	2.0-2.1	has part some (head width and (bearer of as some (has measurement unit label some interorbital space)))) and (has measurement 2.1f)))))
Head width vs. interorbital space (HW/IOS) Female	2.65	has part some (head width and (bearer of as some (has measurement unit label some interorbital space)))) and (has measurement 2.65f)))))
Head width vs. interorbital space (HW/IOS) Male	2.1	has part some (head and (bearer of some some (has measurement unit label some space)))) and (has measurement value some some (has measurement unit label some space))))
Head width vs. interorbital space (HW/IOS) Male	1.8-1.9	has part some (head and (bearer of some some (has measurement unit label some space)))) and (has measurement value some some (has measurement unit label some space))))

Entity	Value	Semantic
Head width vs. interorbital space (HW/IOS) Male	1.6-1.9	space)))) and (has measurement value some has part some (head and (bearer of some some (has measurement unit label some space)))) and (has measurement value some
Head width vs. interorbital space (HW/IOS) Male	1.9-2.0	has part some (head and (bearer of some some (has measurement unit label some space)))) and (has measurement value some
Head width vs. interorbital space (HW/IOS) Male	1.6-1.7	has part some (head and (bearer of some some (has measurement unit label some space)))) and (has measurement value some
Head width vs. interorbital space (HW/IOS) Male	2.0-2.2	has part some (head and (bearer of some some (has measurement unit label some space)))) and (has measurement value some
Head width vs. interorbital space (HW/IOS) Male	2.0-2.5	has part some (head and (bearer of some some (has measurement unit label some space)))) and (has measurement value some
Head width vs. interorbital space (HW/IOS) Male	1.8-2.0	has part some (head and (bearer of some some (has measurement unit label some space)))) and (has measurement value some
Intertorular area count	present	has part some intertorular area
Intertorular area count	absent	not (has part some intertorular area)
Lateral margin of harpe shape	widest point of harpe is at its articulation site with gonostyle-volsella complex	(has part some harpe) and (has part some maximum width and (adjacent to some g
Lateral margin of harpe shape	widest point of harpe is in its proximal 1/3rd	(has part some harpe) and (has part some maximum width and (not (adjacent to some
Lateral propodeal carina count	present	has part some lateral propodeal carina
Lateral propodeal carina count	absent	not (has part some lateral propodeal carina
Lateral propodeal carina shape	inverted "U" (left and right lateral propodeal carina are adjacent to the antecostal sulcus of the first abdominal	has part some (lateral propodeal carina a bearer of some median)))) and (has part some antecostal sulcus)))) and (bearer of lateral propodeal carina and (bearer of some

Entity	Value	Semantic
Lateral propodeal carina shape	tergumsubmedially) inverted "V" (left and right lateral propodeal carinae are adjacent medially at their intersection with antecostal sulcus of the first abdominal tergum)	(not (has part some (carina and (bearer of some (lateral propodeal carina and (bearer of some (propodeal carina and (bearer of some (rigid sulcus)))))))))))
Lateral propodeal carina shape	straight ((left and right lateral propodeal carinae compose a carina that is not broken medially)	(not (has part some (carina and (bearer of some (lateral propodeal carina and (bearer of some (propodeal carina and (bearer of some (rigid)))))))))
Lateral propodeal carina shape	inverted "Y" (left and right lateral propodeal are adjacent medially posterior to antecostal sulcus of the first abdominal tergum, and connected to the antecostal sulcus by a median carina representing the median branch of the inverted "Y")	(has part some (carina and (has part some (lateral propodeal carina and (adjacent to some (lateral propodeal carina and (some (lateral propodeal carina and (bearer of some (rigid)))))))))))
Lateral setae of harpe orientation	oriented distoventrally	has part some (harpe and (has part some (sensillum trichodeum and (bearer of some (ventral orientation)))))))))
Lateral setae of harpe orientation	oriented distally	has part some (harpe and (has part some (sensillum trichodeum and (bearer of some (rigid)))))))))
Lateral setae of harpe presence	present	has part some (harpe and (has part some (sensillum trichodeum)))))))
Lateral setae of harpe presence	absent	not (has part some (harpe and (has part some (sensillum trichodeum)))))))
Length of setae on male flagellomere vs. male flagellomere width	setae shorter than width of flagellomeres	has part some (sensillum trichodeum and (anatomical line and (bearer of some (length decreased_in_magnitude_relative_to some (part_of some (flagellomere))))))))))))))))
Length of setae on male flagellomere vs. male flagellomere width	setae as long as width of flagellomeres	has part some (sensillum trichodeum and (anatomical line and (bearer of some (length similar_in_magnitude_relative_to some (part_of some (flagellomere))))))))))))))))

Entity	Value	Semantic
Length of setae on male flagellomere vs. male flagellomere width	setae longer than width of flagellomeres	has part some (sensillum trichodeum and anatomical line and (bearer of some (length and (increased in magnitude relative to some anatomical line and (part of some flagellomere))))))))
Male first flagellomere length vs. male second flagellomere length	1.2-1.3	has part some (first flagellomere and (anatomical line and (bearer of some (length and ((measurement unit label some (length and (anatomical line and (part of some second flagellomere)))))) measurement value some float [$\geq 1.2f$,
Male first flagellomere length vs. male second flagellomere length	1.0-1.1	has part some (first flagellomere and (anatomical line and (bearer of some (length and ((measurement unit label some (length and (anatomical line and (part of some second flagellomere)))))) measurement value some float [$\geq 1.0f$,
Male first flagellomere length vs. male second flagellomere length	flagellomere 1 is 1.4-1.5 times as long as flagellomere 2	has part some (first flagellomere and (anatomical line and (bearer of some (length and ((measurement unit label some (length and (anatomical line and (part of some second flagellomere)))))) measurement value some float [$\geq 1.4f$,
Male first flagellomere length vs. male second flagellomere length	1.3-1.4	has part some (first flagellomere and (anatomical line and (bearer of some (length and ((measurement unit label some (length and (anatomical line and (part of some second flagellomere)))))) measurement value some float [$\geq 1.3f$,
Male first flagellomere length vs. male second flagellomere length	1.1	has part some (first flagellomere and (anatomical line and (bearer of some (length and ((measurement unit label some (length and (anatomical line and (part of some second flagellomere)))))) measurement value some float [$\geq 1.1f$]),
Male first flagellomere length vs. male second flagellomere length	1.4	has part some (first flagellomere and (anatomical line and (bearer of some (length and ((measurement unit label some (length and (anatomical line and (part of some second flagellomere)))))) measurement value some float [$\geq 1.4f$]),
Male first flagellomere length vs. male second flagellomere length	1.2-1.5	has part some (first flagellomere and (anatomical line and (bearer of some (length and ((measurement unit label some (length and (anatomical line and (part of some second flagellomere)))))) measurement value some float [$\geq 1.2f$,
Male first flagellomere length vs. male second flagellomere length	1.2-1.4	has part some (first flagellomere and (anatomical line and (bearer of some (length and ((measurement unit label some (length and (anatomical line and (part of some second flagellomere))))))

Entity	Value	Semantic
Male first flagellomere length vs. male second flagellomere length	1.1-1.2	measurement unit label some (length and anatomical line and (part_of some second flagellomere length measurement value some float [$\geq 1.2f$, $\leq 1.2f$]))))))
Male first flagellomere length vs. pedicel length	3.2-4.0	has part some (first flagellomere and (has part some (first flagellomere and (anatomical line and (bearer_of some (length and ((is a measurement unit label some (length and anatomical line and (part_of some second flagellomere length measurement value some float [$\geq 1.1f$, $\leq 1.1f$]))))))
Male first flagellomere length vs. pedicel length	3.0-3.2	has part some (first flagellomere and (has part some (first flagellomere and (anatomical line and (bearer_of some (length and ((is a measurement unit label some (length and anatomical line and (part_of some pedicel length float [$\geq 3.2f$, $\leq 4.0f$]))))))
Male first flagellomere length vs. pedicel length	3.0-3.2	has part some (first flagellomere and (has part some (first flagellomere and (anatomical line and (bearer_of some (length and ((is a measurement unit label some (length and anatomical line and (part_of some pedicel length float [$\geq 3.0f$, $\leq 3.2f$]))))))
Male first flagellomere length vs. pedicel length	1.2-1.3	has part some (first flagellomere and (has part some (first flagellomere and (anatomical line and (bearer_of some (length and ((is a measurement unit label some (length and anatomical line and (part_of some pedicel length float [$\geq 1.2f$, $\leq 1.3f$]))))))
Male first flagellomere length vs. pedicel length	2.5-3.0	has part some (first flagellomere and (has part some (first flagellomere and (anatomical line and (bearer_of some (length and ((is a measurement unit label some (length and anatomical line and (part_of some pedicel length float [$\geq 2.5f$, $\leq 3.0f$]))))))
Male first flagellomere length vs. pedicel length	2.9-3.3	has part some (first flagellomere and (has part some (first flagellomere and (anatomical line and (bearer_of some (length and ((is a measurement unit label some (length and anatomical line and (part_of some pedicel length float [$\geq 2.9f$, $\leq 3.3f$]))))))
Male first flagellomere length vs. pedicel length	2.1-2.4	has part some (first flagellomere and (has part some (first flagellomere and (anatomical line and (bearer_of some (length and ((is a measurement unit label some (length and anatomical line and (part_of some pedicel length float [$\geq 2.1f$, $\leq 2.4f$]))))))
Male first flagellomere length vs. pedicel length	2.5	has part some (first flagellomere and (has part some (first flagellomere and (anatomical line and (bearer_of some (length and ((is a measurement unit label some (length and anatomical line and (part_of some pedicel length float [$\geq 2.5f$, $\leq 2.5f$]))))))

Entity	Value	Semantic
Male first flagellomere length vs. pedicel length	4-4.2	<p>anatomical line and (part_of some pedicel float [$\geq 2.5f$]))))</p> <p>has part some (first flagellomere and (ha line and (bearer of some (length and ((i measurement unit label some (length and anatomical line and (part_of some pedicel float [$\geq 4.0f$, $\leq 4.2f$]))))</p>
Male first flagellomere length vs. pedicel length	2.4-2.5	<p>has part some (first flagellomere and (ha line and (bearer of some (length and ((i measurement unit label some (length and anatomical line and (part_of some pedicel float [$\geq 2.4f$, $\leq 2.5f$]))))</p>
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line (LOL)	2.2:1.1-1.4:1	<p>(has part some (ocular ocellar line and (measured as some (has measurement uni lateral ocellar line))) and (has measure has part some (posterior ocellar line and measured as some (has measurement uni lateral ocellar line))) and (has measure float [$1.4f$]))))</p>
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line (LOL)	1.8-2:1.7-1.8:1	<p>(has part some (ocular ocellar line and (measured as some (has measurement uni lateral ocellar line))) and (has measure float [$2.0f$])))) and (has part some (posterior and ((is quality measured as some (has r inheres in some lateral ocellar line))) and float [$1.7f$, $\leq 1.8f$]))))</p>
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line (LOL)	2.0-2.1:1.7-1.8:1	<p>(has part some (ocular ocellar line and (measured as some (has measurement uni lateral ocellar line))) and (has measure float [$2.1f$])))) and (has part some (posterior and ((is quality measured as some (has r inheres in some lateral ocellar line))) and float [$1.7f$, $\leq 1.8f$]))))</p>
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line (LOL)	1.2-1.3:1:1	<p>(has part some (ocular ocellar line and (measured as some (has measurement uni lateral ocellar line))) and (has measure float [$1.3f$])))) and (has part some (posterior and ((is quality measured as some (has r inheres in some lateral ocellar line))) and float [$1.0f$]))))</p>
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line (LOL)	1.4-1.8:1.5-1.8:1	<p>(has part some (ocular ocellar line and (measured as some (has measurement uni</p>

Entity	Value	Semantic
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.1-1.2:1.6-1.8:1	(lateral ocellar line)))) and (has measurement unit (1.8f])))))) and (has part some (posterior ocellar line)))) and ((is quality measured as some (has measurement unit (1.5f , <= 1.8f])))))))))))
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.3-1.5:1:1	(has part some (ocular ocellar line and (measured as some (has measurement unit (lateral ocellar line)))) and (has measurement unit (1.2f]))))))))))) and (has part some (posterior ocellar line)))) and ((is quality measured as some (has measurement unit (1.6f , <= 1.8f])))))))))))
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	2.9-3.6:2.2-2.1:1	(has part some (ocular ocellar line and (measured as some (has measurement unit (lateral ocellar line)))) and (has measurement unit (1.5f]))))))))))) and (has part some (posterior ocellar line)))) and ((is quality measured as some (has measurement unit (1.0f])))))))))))
Male ocular ocellar line (OOL):posterior ocellar line (POL):lateral ocellar line(LOL)	1.1-1.2:1:1	(has part some (ocular ocellar line and (measured as some (has measurement unit (lateral ocellar line)))) and (has measurement unit (3.6f]))))))))))) and (has part some (posterior ocellar line)))) and ((is quality measured as some (has measurement unit (2.1f , <= 2.2f])))))))))))
Male OOL:LOL	OOL/LOL=1.0-2.0	(has part some (ocular ocellar line and (measured as some (has measurement unit (lateral ocellar line)))) and (has measurement unit (1.2f]))))))))))) and (has part some (posterior ocellar line)))) and ((is quality measured as some (has measurement unit (1.0f])))))))))))
Male OOL:LOL	OOL/LOL=0.75-1.0	has part some (ocular ocellar line and (measured as some (has measurement unit (lateral ocellar line)))) and (has measurement unit (2.0f])))))))))))
Male OOL:POL	OOL/POL=0.5-2.0	has part some (ocular ocellar line and (measured as some (has measurement unit (lateral ocellar line)))) and (has measurement unit (1.0f])))))))))))

Entity	Value	Semantic
		measured as some (has measurement unit posterior ocellar line)))) and (has measurement value some float [>= 2.0f]))))
Male OOL:POL	OOL/POL=0.24-0.43	has part some (ocular ocellar line and (measured as some (has measurement unit posterior ocellar line)))) and (has measurement value some float [>= 0.43f]))))
Mandibular teeth count	2	has part some (mandible and (has component count some integer [= 2]))
Mandibular teeth count	4	has part some (mandible and (has component count some integer [= 4]))
Mandibular teeth count	3	has part some (mandible and (has component count some integer [= 3]))
Mandibular teeth count	1	has part some (mandible and (has component count some integer [= 1]))
Median flange of occipital carina count	absent	not (has part some median flange of occipital carina))
Median flange of occipital carina count	present	has part some median flange of occipital carina))
Median mesoscutal sulcus posterior end	adjacent to transscutal articulation	has part some (median mesoscutal sulcus posterior end and (adjacent to some transscutal articulation))
Median mesoscutal sulcus posterior end	not adjacent to transscutal articulation (ends anterior to the articulation)	has part some (median mesoscutal sulcus posterior end and (not (adjacent to some transscutal articulation))
Median region of intertorular area shape	flat	has part some (intertorular carina and (shape of some flat))))
Median region of intertorular area shape	convex	has part some (intertorular carina and (shape of some convex))))
Mesometapleural sulcus count	present dorsally	has part some (mesometapleural sulcus and (has part some ventral region))))
Mesometapleural sulcus count	present	has part some (mesometapleural sulcus and (has part some ventral region))))
Mesometapleural sulcus count	absent	not (has part some mesometapleural sulcus))
Mesoscutal length vs anterior mesoscutal width	MscL/AscW=0.6-0.9	has part some (anteromesoscutum and (bearer of some (length and (is quality label some (length and (inheres in some measurement value some float [>= 0.6f ,

Entity	Value	Semantic
Mesoscutal length vs anterior mesoscutal width	MscL/AscW=1.0-2.0	has part some (anteromesoscutum and (bearer of some (length and ((is quality label some (length and (inheres in some measurement value some float [≥ 1.0 of ,
Metapleural carina count	present	has part some metapleural carina
Metapleural carina count	absent	not (has part some metapleural carina)
Notaulus posterior end location	adjacent to transscutal articulation	has part some (notaulus and (has part some transscutal articulation)))
Notaulus posterior end location	anterior to transverse midline of mesoscutum	has part some (mesoscutum and (has part notaulus)))
Notaulus posterior end location	posterior to transverse midline of mesoscutum	has part some (mesoscutum and (has part notaulus)))
Occipital carina sculpture	crenulate	has part some (occipital carina and (bearer of some (length and ((is quality label some (length and (inheres in some measurement value some float [≥ 1.0 of ,
Occipital carina sculpture	smooth	has part some (occipital carina and (bearer of some (length and ((is quality label some (length and (inheres in some measurement value some float [≥ 1.0 of ,
Parossicular seta: number	two	has part some (apical parossicular seta and (trichodeum))
Parossicular seta: number	more than two	has part some (apical parossicular seta and (trichodeum))
Parossicular seta: number	one	has part some (apical parossicular seta and (trichodeum))
Parossiculus count (parossiculus and gonostipes fusion)	present (not fused with the gonostipes)	has part some parossiculus
Parossiculus count (parossiculus and gonostipes fusion)	absent (fused with the gonostipes)	not (has part some parossiculus)
Posterior margin of nucha in dorsal view shape	straight	has part some (nucha and (has part some straight)))
Posterior margin of nucha in dorsal view shape	concave	has part some (nucha and (has part some concave)))
Scutes on posterior region of mesoscutum and dorsal region of mesoscutellum scute convexity	flat	has part some (mesoscutum and (has part some (scute and (has part some dorsal scutellum)))

Entity	Value	Semantic
Scutes on posterior region of mesoscutum and dorsal region of mesoscutellum convexity	convex	has part some (mesoscutum and (has part some (scute and (has part some dorsal s))))
Postocellar carina	absent	not (has part some postocellar carina)
Postocellar carina	present	has part some postocellar carina
Preoccipital carina and occipital carina structure	occipital carina is short, not extending ventrally to the oral foramen and the preoccipital carina is absent	(not (has part some preoccipital carina)) (not (has part some (ventral region and (
Preoccipital carina and occipital carina structure	the preoccipital carina is absent and the occipital carina extends ventrally to the oral foramen	(not (has part some preoccipital carina)) (adjacent to some oral foramen)))
Preoccipital carina and occipital carina structure	occipital carina complete, preoccipital carina fused laterally with orbital carina	(has part some occipital carina) and (ha preoccipital carina and (adjacent to some
Preoccipital carina and occipital carina structure	the occipital carina is short, interrupted laterally of the occipital foramen, whereas the preoccipital carina extends ventrally to the oral foramen	(has part some (occipital carina and (not and (has part some (preoccipital carina a
Preoccipital carina and occipital carina structure	the occipital carina extends ventrally to the oral foramen with the preoccipital carina present on the vertex, but not extending ventrally along the gena	(has part some (occipital carina and (ha to some oral foramen)))) and (has part s preoccipital carina and (not (has part som
Preoccipital carina and occipital carina structure	the preoccipital carina is absent from the vertex, but a carina, that is continuous with the anterior margin of the preoccipital lunula extends ventrally to the oral foramen	(has part some (preoccipital lunula and (part some (carina and (adjacent to some vertex and (not (has part some preoccipi
Preoccipital carina count	absent	not (has part some preoccipital carina)

Entity	Value	Semantic
Preoccipital carina count	present	has part some preoccipital carina
Preoccipital carina shape	present medially, absent laterally to lateral ocelli	has part some (preoccipital carina and (has part some (medial region and (not (has part s
Preoccipital carina shape	complete	has part some (preoccipital carina and (has part some (medial region and (has part some
Preoccipital carina shape	interrupted dorsally and represented by irregular, not continuous carinae	has part some (preoccipital carina and (has part some medial region) and (has part some inconspicuous)))
Preoccipital furrow anterior end	Preoccipital furrow ends inside ocellar triangle	has part some (preoccipital furrow and (anterior_to some posterior ocellar line)))
Preoccipital furrow anterior end	Preoccipital furrow ends prosterior to ocellar triangle	has part some (preoccipital furrow and (posterior_to some interocellar space)))
Preoccipital furrow count	present	has part some preoccipital furrow
Preoccipital furrow count	absent	not (has part some preoccipital furrow)
Preoccipital lunula count	present	has part some preoccipital lunula
Preoccipital lunula count	absent	not (has part some preoccipital lunula)
Presence of intertorular carina	present	has part some intertorular carina
Presence of intertorular carina	absent or reduced medially	has part some (intertorular carina and (not
Proximodorsal notch of cupula count	present	has part some proximodorsal notch of cupula
Proximodorsal notch of cupula count	absent	not (has part some proximodorsal notch of cupula)
Proximodorsal notch of cupula shape	notched	has part some (proximodorsal notch of cupula and (has part some
Proximodorsal notch of cupula shape	arched	has part some (proximodorsal notch of cupula and (has part some
Proximodorsal notch of cupula width vs length	at least two times as long as wide	has part some (anatomical line and (bearer_of some (length measured_as some (has measurement unit anatomical line))) and (has measurement unit anatomical line)))
Proximodorsal notch of cupula width vs length	wider than long	has part some (proximodorsal notch of cupula and (anatomical line and (bearer_of some (length decreased_in_magnitude_relative_to some

Entity	Value	Semantic
Proximodorsal notch of cupula width vs length	as long as wide	and (part_of some proximodorsal notch of cupula) has part some (proximodorsal notch of cupula anatomical line and (bearer of some (length similar_in_magnitude_relative_to some (part_of some proximodorsal notch of cupula)))))
Proximolateral corner of male S9 shape	blunt	has part some (abdominal sternum 9 and some (proximal side and ((bearer of some (blunt))))))
Proximolateral corner of male S9 shape	acute	has part some (abdominal sternum 9 and some (proximal side and ((bearer of some (acute))))))
Proximolateral projection of the cupula shape	blunt	has part some (proximolateral projection of the cupula)
Proximolateral projection of the cupula shape	acute	has part some (proximolateral projection of the cupula)
Randomly sized areolae around setal pits on frons count	absent	has part some (frons and (has part some (setal pit))))
Randomly sized areolae around setal pits on frons count	present	has part some (frons and (has part some (setal pit))))
Rugose region on frons count	present	has part some (frons and (has part some (rugose))))
Rugose region on frons count	absent	not (has part some (frons and (has part some (rugose)))))
S1 length vs. shortest width	S1 wider than long	has part some (anterior area of the second abdominal segment median anatomical line and (bearer of some (has measurement unit label some (width)) and (has measurement value some float [greater_than some (length)])))
S1 length vs. shortest width	S1 longer than wide	has part some (anterior area of the second abdominal segment median anatomical line and (bearer of some (has measurement unit label some (length)) and (has measurement value some float [greater_than some (width)])))
Scutoscutellar sulcus vs transscutal articulation	adjacent	has part some (scutoscutellar sulcus and transscutal articulation)
Scutoscutellar sulcus vs transscutal articulation	not adjacent	has part some (scutoscutellar sulcus and transscutal articulation)

Entity	Value	Semantic
Sensillar patch of the male flagellomere pattern	F6-F9	(has part some (sixth flagellomere and (flagellomere))) and (has part some (seventh flagellomere and (sensillar patch of the male flagellomere))) and (has part some sensillar patch of the ninth flagellomere and (has part some sensillar patch of the male flagellomere))))
Sensillar patch of the male flagellomere pattern	F4-F9	(has part some (fifth flagellomere and (flagellomere))) and (has part some (fourth flagellomere and (sensillar patch of the male flagellomere))) and (has part some sensillar patch of the seventh flagellomere and (has part some sensillar patch of the male flagellomere))) and (has part some (eighth flagellomere and (sensillar patch of the male flagellomere)))) and (has part some sensillar patch of the male flagellomere)))
Sensillar patch of the male flagellomere pattern	F5-F9	(has part some (fifth flagellomere and (flagellomere))) and (has part some (sixth flagellomere and (sensillar patch of the male flagellomere))) and (has part some sensillar patch of the fifth flagellomere and (has part some sensillar patch of the male flagellomere))) and (has part some (eighth flagellomere and (sensillar patch of the male flagellomere)))) and (has part some (ninth flagellomere and (sensillar patch of the male flagellomere))))
Sensillar ring area of harpe orientation	medially	has part some (area and (surrounded by of some medial orientation)))
Sensillar ring area of harpe orientation	dorsomedially	has part some (area and (surrounded by of some (dorsal orientation and (bearer of))))
Setal pit on vertex size	larger than diameter of scutes	has part some (setal pit and (has part some (length and (increased_in_magnitude_reduced_in_magnitude of some (maximum width and (part_of some)))))
Setal pit on vertex size	smaller than diameter of scutes	has part some (setal pit and (has part some (length and (decreased_in_magnitude_reduced_in_magnitude of some (maximum width and (part_of some)))))
Speculum ventral limit	not extending ventrally of pleural pit line	not (has part some (speculum and (has part some (posterior_to some (posterior margin and)))))
Speculum ventral limit	extending ventrally of pleural pit line	has part some (speculum and (has part some (posterior margin and (part_of some))))
Sternaulus count	absent	not (has part some stернаulus))
Sternaulus count	present	has part some stернаulus
Sternaulus length	short, not reaching 1/2 of	has part some (stернаulus length and (bearer of))

Entity	Value	Semantic
	mesopleuron length at level of sternaulus	measured as some (has measurement unit mesopleuron length)))) and (has measur
Sternaulus length	elongate, exceeding 3/4 of mesopleuron length at level of sternaulus	has part some (sternaulus length and (be measured as some (has measurement unit mesopleuron length)))) and (has measur
Submedian flanges of occipital carina count	present	has part some submedian flange of occipit
Submedian flanges of occipital carina count	absent	not (has part some submedian flange of o
Subtorular carina count	present	has part some subtorular carina
Subtorular carina count	absent	not (has part some subtorular carina)
Supraclypeal depression count	absent	not (has part some supraclypeal depressi
Supraclypeal depression count	present	has part some supraclypeal depression
Supraclypeal depression structure	absent medially, represented by two grooves laterally of facial pit	has part some (supraclypeal depression a
Supraclypeal depression structure	present medially, inverted U-shaped	has part some (supraclypeal depression a
Torulo-clypeal carina count	present	has part some torulo-clypeal carina
Torulo-clypeal carina count	absent	not (has part some torulo-clypeal carina)
Transverse carina on petiole shape	concave	has part some (transverse carina on petio
Transverse carina on petiole shape	straight	has part some (transverse carina on petio
Transverse frontal carina count	present	has part some transverse frontal carina
Transverse frontal carina count	absent	not (has part some transverse frontal cari
Transverse line of the metanotum/propodeum fusion with antecosta of abdominal tergum 1.	fused medially	has part some (transverse line of the met (antecostal sulcus of the first abdominal region)) and (bearer of some medial reg

Entity	Value	Semantic
Transverse line of the metanotum/propodeum fusion with antecosta of abdominal tergum 1.	fused sublaterally	has part some (transverse line of the metanotum/propodeum fusion with antecosta of abdominal tergum 1.) and (bearer of some lateral region)
Transversely reticulate region on frons count	present	has part some (frons and (has part some reticulate and (bearer of some horizontal region)))
Transversely reticulate region on frons count	absent	not (has part some (frons and (has part some reticulate and (bearer of some horizontal region))))
Transversely reticulate region on frons extent	extending entire width of frons	has part some (frons and (has part some reticulate and (bearer of some horizontal region)))
Transversely reticulate region on frons extent	restricted to lateral branches of supraclypeal depression	has part some (supraclypeal depression and (has part some reticulate and (bearer of some horizontal region)))
Ventral margin of torulus vs dorsal margin of clypeus	adjacent	has part some (torulus and (has part some dorsal margin and (part_of some clypeus)))
Ventral margin of torulus vs dorsal margin of clypeus	not adjacent	not (has part some (torulus and (has part some dorsal margin and (part_of some clypeus))))
Ventrolateral invagination of the pronotum presence	absent	not (has part some ventrolateral invagination of the pronotum)
Ventrolateral invagination of the pronotum presence	present	has part some ventrolateral invagination of the pronotum
Ventromedian and ventrolateral white, setiferous patches on frons count	present	(has part some (ventromedian setiferous patches on frons) and (has part some (ventrolateral setiferous patches on frons))
Ventromedian and ventrolateral white, setiferous patches on frons count	absent	not ((has part some (ventromedian setiferous patches on frons) and (has part some (ventrolateral setiferous patches on frons)))
Weber length	WL=3.0-4.5	(has part some Weber length) and (bearer of some Weber length) and (measured as some (has measurement unit Weber length measurement value some (float [>= 400.0])))
Whitish, thick setae on frons count	absent	not (has part some (frons and (has part some whitish, thick setae on frons))))
Whitish, thick setae on frons count	present	has part some (frons and (has part some whitish, thick setae on frons))