

Supplementary data 1. List of species of tabanids included in this study

Genus	Subgenus	Species	Distribution
<i>"Dasybasis"</i>		<i>adornata</i> (Krober)	Peru
		<i>albohirta</i> (Walker)	Argentina
		<i>albosignata</i> (Krober)	Argentina
		<i>albotibialis</i> (Krober)	Peru
		<i>alticola</i> (Enderlein)	Argentina
		<i>andicola</i> (Philippi)	Argentina, Chile
		<i>antelope</i> (Brethes)	Argentina
		<i>antillanca</i> González	Chile
		<i>arauca</i> Coscarón & Philip	Chile
		<i>arica</i> Coscarón & Philip	Chile
		<i>barbata</i> Coscarón & Philip	Chile
		<i>bejeranoi</i> Coscarón & Philip	Argentina
		<i>belenensis</i> Coscarón & Philip	Chile
		<i>boliviane</i> Coscarón & Philip	Bolivia
		<i>bonariensis</i> (Macquart)	Argentina
		<i>brethesi</i> Coscarón & Philip	Argentina
		<i>bruchii</i> (Brethes)	Argentina, Chile
		<i>bulbiscapens</i> Coscarón & Philip	Peru
		<i>bulbula</i> Coscarón & Philip	Bolivia, Chile
		<i>canipilis</i> (Krober)	Argentina
		<i>caprii</i> Coscarón & Philip	Argentina
		<i>chilensis</i> (Macquart)	Argentina, Chile
		<i>chillan</i> Coscarón	Chile
		<i>chubutensis</i> Coscarón	Argentina
		<i>colla</i> Coscarón	Argentina
		<i>collagua</i> González	Chile
		<i>coquimbo</i> Coscarón	Chile
		<i>cumelafquen</i> Coscarón	Argentina
		<i>delpontei</i> Coscarón & Philip	Argentina
		<i>delpontei sepiapes</i> Coscarón & Philip	Chile
		<i>diaguita</i> Coscarón	Argentina
		<i>elquiensis</i> González	Chile
		<i>erynnis</i> (Brethes)	Argentina
		<i>excelsior</i> Fairchild	Ecuador
		<i>fairchildi</i> Coscarón & Philip	Argentina, Peru
		<i>fornesi</i> Coscarón	Argentina
		<i>frequens</i> (Krober)	Bolivia, Peru
		<i>fumifrons</i> Coscarón & Philip	Argentina
		<i>geminata</i> Coscarón & Philip	Peru
		<i>hepperi</i> Coscarón & Philip	Argentina
		<i>hirsuta</i> Coscarón & Philip	Chile
		<i>inata</i> Coscarón & Philip	Chile, Peru
		<i>kroeberi</i> Coscarón & Philip	Chile, Peru

		<i>kroeberi picea</i> Coscarón & Philip	Chile
		<i>limbativena</i> (Krober)	Peru
		<i>maletecta</i> (Bigot)	desconocida
		<i>mendozaana</i> (Enderlein)	Argentina
		<i>minor</i> (Macquart)	Argentina, Uruguay
		<i>missionum</i> (Macquart)	Argentina, Brazil
		<i>montium</i> (Surcouf)	Bolivia, Colombia, Ecuador, Venezuela
		<i>neogrisescens</i> (Krober)	Peru
		<i>nigra</i> (Enderlein)	Argentina, Chile
		<i>nigrifemur</i> (Krober)	Chile
		<i>nigrifrons</i> (Philippi)	Argentina, Chile
		<i>opaca</i> (Brethes)	Argentina
		<i>ornatissima</i> (Brethes)	Argentina
		<i>pallipes</i> (Krober)	Argentina, Bolivia
		<i>penai</i> Coscarón & Philip	Chile
		<i>pereirai</i> Coscarón & Philip	Argentina, Chile
		<i>pereirai dureti</i> Coscarón & Philip	Argentina, Chile
		<i>persignata</i> (Krober)	Argentina, Bolivia
		<i>pilifer</i> (Krober)	Chile
		<i>poroma</i> Coscarón & Philip	Bolivia
		<i>pruinivitta</i> (Krober)	Argentina, Chile
		<i>punensis</i> (Hine)	Bolivia, Chile, Peru
		<i>schineri</i> (Krober)	Colombia, Ecuador, Venezuela
		<i>schmusei</i> (Krober)	Peru
		<i>senilis</i> (Philippi)	Chile
		<i>shannoni</i> (Krober)	Argentina, Chile
		<i>subtrita</i> Coscarón & Philip	Argentina
		<i>testaceomaculata</i> (Macquart)	Argentina, Chile
		<i>testaceomaculata longifrons</i> (Kröber)	Chile
		<i>testaceomaculata molestissima</i> (Philippi)	Chile
		<i>trigonophora</i> (Macquart)	Argentina, Uruguay
		<i>tritus</i> (Walker)	Argentina, Chile
		<i>vasta</i> Coscarón & Philip	Argentina
		<i>appendiculata</i> Macquart	Australia
		<i>dixonii</i> Ferguson	Australia
		<i>dubiosa</i> Ricardo	Australia
		<i>gentilis</i> Erichson	Australia
		<i>nemopunctata</i> Ricardo	Australia
		<i>trilinealis</i> Ferguson & Henry	Australia
<i>Stenotabanus</i> Lutz	<i>Stenotabanus</i> Lutz	<i>sandyi</i> Gorayeb	Brazil
		<i>incipiens</i> (Walker)	Guatemala to Bolivia, Argentina, Brazil
		<i>taeniotes</i> (Wiedemann)	Brazil
<i>Scaptiodes</i> Enderlein		<i>gagatina</i>	Argentina, Chile

<i>Tabanus</i> Linneaus		<i>importunus</i> Wiedemann	Brazil, Bolivia, Panama, Peru
<i>Acellomyia</i> González		<i>paulseni</i> (Philippi)	Argentina, Chile
<i>Agelanius</i> Rondani		<i>meridiana</i> Rondani	Argentina, Chile
<i>Haematopotina</i> Coscarón & Philip		<i>argentina</i> (Brethes)	Argentina
		<i>argentina calchaqui</i> Coscarón & Philip	Argentina, Bolivia
		<i>pechumani</i> Coscarón & Philip	Chile, Peru

Supplementary table II

Characters and observations

1 Pollinosity in frons, gena, and subcallus	(0) present
2 Median occipital sclerite	(0) wide, very wide
3 Eyes color	(0) black
4 Ocular ommatrichia	(0) absent
5 Ocular ommatrichia length	(0) microscopic
6 Ocular ommatrichia abundance	(0) scarce
7 Ocular band	(0) present
8 Ocular margin in vertex	(0) present
9 Shape of ocular margin	(0) parallel
10 Shape of frons sides	(0) divergent
11 Frons pilosity color	(0) whitish
12 Frons	(0) with median groove
13 Shape of frons in vertex	(0) convex
14 Band of pruinosity in frons	(0) present
15 Frontal index	(0) up to 2.9
16 Frontal callus presence	(0) present
17 Shape of frontal callus	(0) quadrangular
18 Basal callus	(0) touching the subcallus
19 Basal callus	(0) touching the eyes
20 Surface of callus	(0) rugose
21 Frontal callus	(0) with dorsal-median prolongation
22 Ocelli	(0) present
23 Ocelli state	(0) vestigial
24 Subcallus pilosity	(0) present
25 Longitudinal suture of the subcallus	(0) present
26 Frontoclypeal pilosity	(0) present
27 Pilosity arrangement of the frontoclypeus	(0) lateral
28 Antenna color	(0) bicolored
29 Type of scape	(0) globose, semiglobose
30 Scape pilosity length	(0) short
31 Scape pilosity color	(0) black
32 Pedicel	(0) with dorsal projection
33 Pedicel dorsal projection length	(0) dorsal projection of the pedicel 1/4 to more than the width of the segment
34 Basal flagellomere	(0) with dorsal tooth

35 Basal flagellomere

(0) not angular

36 Maxillary palpi length

(0) maxillary palp longer than half
the height of the proboscis

37 Maxillary palpi curvature	(0) curved
38 Maxillary palpi pilosity density	(0) sparse
39 Maxillary palpi pilosity color	(2) black
40 Pruinose stripes on mesoscutum	(0) present
41 Shape of prescutellum	(0) triangular
42 Halteres color	(0) dark brown, grayish brown, brown, reddish brown, yellowish brown, light brown
43 Wings	(0) hyaline
44 Basicosta	(0) setulose
45 Subcosta	(0) setulose
46 Vein R1	(0) with several rows of setae
47 Appendix on R4	(0) present
48 Vein CuA2	(0) bare
49 Mid-dorsal abdominal triangles	(0) present
50 Abdominal terga	(0) with median band
51 Abdominal sternum	(0) with median band
52 Shape of female cerci	(0) quadrangular
53 Shape of sternite VIII base	(0) convex
54 Genital fork base	(0) concave or strongly concave
55 Genital fork base	(0) with basal branches
56 Apex of spermathecal ducts	(0) without lateral expansion
57 Lateral projections of spermathecal ducts	(0) presents
58 Spermathecal ducts	(0) short

(1) absent		
(1) narrow		
(1) greenish	(2) blueish	(3) brown
(1) present		
(1) short	(2) long	
(1) abundant		
(1) absent		
(1) absent		
(1) convergent		
(1) convergent	(2) parallel	subparallel
(1) black	(2) brown	(3) yellowish
(1) without median groove		
(1) strait	(2) concave	
(1) absent		
(1) 3 to 5	(2) 5.1 or more	
(1) reduced	(2) absent	
(1) triangular	(2) ovoid	(3) keel-shaped
(1) not touching the subcallus		
(1) not touching the eyes		
(1) smooth		
(1) without dorsal-median prolongation		
(1) absent		
(1) functional	developed	
(1) absent		
(1) absent		
(1) absent		
(1) central and lateral		
(1) unicolored		
(1) not globose		
(1) long		
(1) silver-grayish	(2) whitish	
(1) without dorsal projection		
(1) dorsal projection of the pedicel 1/4 or less of the segment		
(1) without dorsal tooth		
(1) angular		
(1) maxillary palp shorter than half the height of the proboscis	(2) maxillary palp one third of the height of the proboscis	

- | | | |
|--------------------------------|--------------------------------|--------------------|
| (1) not curved | | |
| (1) dense | | |
| (3) whitish | (4) yellowish | |
| (1) absent | | |
| (1) bell-shaped | | |
| (1) dark gray, grayish | (2) orange, yellowish, reddish | (3) whitish |
| (1) with clouds | (2) smoky | |
| (1) bare | | |
| (1) bare | | |
| (1) with only one row of setae | | |
| (1) absent | | |
| (1) setulose | | |
| (1) absent | | |
| (1) without median band | | |
| (1) without median band | | |
| (1) subcircular | (2) acuminate | (3) subtrapezoidal |
| (1) concave | (2) straight | (3) sinuous |
| (1) convex | (2) straight | |
| (1) without basal branches | | |
| (1) with little expansion | (2) with developed expansion | |
| (1) absent | | |
| (1) long | | |

(4) purple

(4) subrectangular

SUPPL data table III

<i>Tabanus</i>	0	1 0	0 ? ?	1 1 0 1 2	1 2	1 2 0	3 1 1
<i>Dasybasis_appendiculata</i>	0	1 0	1 2 1	0 0 0 0 1	1 1	1 0 0	0 0 0
<i>adornata</i>	0	0 0	1 1 1	1 0 0 0 1	1 2	1 0 0	2 0 1
<i>albohirta</i>	0	0 2	0 ? ?	1 0 0 1 1	1 0	1 0 0	2 1 1
<i>albosignata</i>	0	0 3	1 0 0	1 0 0 1 1	1 2	1 0 0	0 0 0
<i>albotibialis</i>	0	0 0	1 2 1	1 0 0 0 ?	1 2	1 0 0	0 0 0
<i>alticola</i>	0	0 1	0 0 0	1 0 0 2 1	1 1	1 0 0	0 0 0
<i>andicola</i>	0	0 0	1 2 1	1 0 0 0 1	1 2	1 0 0	0 0 0
<i>antelope</i>	0	0 0	1 1 0	1 0 0 0 1	1 1	1 0 0	0 0 0
<i>arauca</i>	0	0 1	1 0 0	0 0 0 2 1	1 1	1 0 0	1 0 0
<i>arica</i>	0	0 0	1 2 1	1 0 0 0 1	1 1	1 0 0	0 0 0
<i>bejeranoi</i>	0	0 1	0 ? ?	1 0 0 0 1	1 2	1 0 0	0 0 0
<i>belenensis</i>	0	0 0	1 2 1	1 0 0 0 1	1 1	1 0 0	0 0 0
<i>boliviam</i>	0	0 0	1 1 0	0 0 0 0 ?	1 0	1 0 0	0 0 0
<i>bonariensis</i>	0	0 2	0 ? ?	0 0 0 0 2	1 2	1 0 0	0 0 0
<i>brethesi</i>	0	0 0	1 2 1	1 0 0 0 1	1 2	1 0 1	2 0 1
<i>bruchii</i>	0	0 0	1 1 0	1 0 0 1 1	1 2	1 0 0	0 0 0
<i>bulbula</i>	0	0 0	1 2 1	1 0 0 2 1	1 2	1 0 0	0 0 0
<i>canipilis</i>	0	0 1	1 1 0	1 0 0 2 1	1 1	1 0 0	0 0 0
<i>caprii</i>	0	0 1	0 ? ?	1 0 0 2 1	1 1	1 0 0	0 0 0
<i>chilensis</i>	0	0 0	1 2 1	1 1 0 0 1	1 2	1 0 0	0 0 1
<i>chillan</i>	0	0 0	1 2 1	1 0 0 0 1	1 1	1 0 0	2 0 1
<i>chubutensis</i>	0	0 2	1 0 0	1 0 0 0 1	1 2	1 0 0	0 0 0
<i>colla</i>	0	0 1	1 2 1	1 0 0 0 1	1 2	1 0 0	0 0 0
<i>coquimbo</i>	0	0 0	1 2 1	1 0 0 0 1	1 2	1 0 0	2 0 1
<i>cumelafquen</i>	0	0 0	1 1 1	1 0 0 2 1	1 1	1 0 0	0 0 0
<i>delpontei</i>	0	0 0	1 1 1	1 0 0 0 1	1 2	1 0 0	0 0 0
<i>delpontei_sepiapes</i>	0	0 0	1 2 1	1 0 0 0 1	1 2	1 0 0	0 0 1
<i>diaguita</i>	0	0 0	1 1 0	1 0 0 0 1	1 2	1 0 0	1 0 0
<i>elquiensis</i>	0	0 0	1 1 0	1 0 0 0 1	1 1	1 0 0	0 0 0
<i>erynnis</i>	0	0 0	0 ? ?	1 0 0 2 1	1 1	1 0 0	0 0 0
<i>excelsior</i>	0	1 0	1 1 0	0 1 0 2 1	1 1	1 1 0	2 0 1
<i>fairchildi</i>	0	0 1	1 2 1	1 0 0 1 1	1 2	1 0 0	2 0 1
<i>fornesi</i>	0	0 0	1 1 0	0 0 0 2 1	1 2	1 0 0	2 0 0
<i>frequens</i>	0	0 ?	1 1 1	1 0 0 2 1	1 2	1 0 0	0 0 0
<i>fumifrons</i>	0	0 0	1 1 0	1 0 0 0 1	1 2	1 0 0	0 0 0
<i>geminata</i>	0	0 0	1 1 0	1 0 0 0 1	1 ?	1 0 0	1 ? ?
<i>hepperi</i>	0	0 ?	1 1 0	1 0 0 0 1	1 1	1 0 0	0 0 0
<i>hirsuta</i>	0	0 0	1 2 1	1 0 0 0 1	1 2	1 0 0	0 0 0
<i>inata</i>	0	0 0	1 2 1	1 0 0 0 1	1 1	1 0 0	1 0 0
<i>kroeberi</i>	0	0 0	1 1 0	0 0 0 0 1	1 1	1 0 0	0 0 0
<i>kroeberi_picea</i>	0	0 0	1 1 0	1 0 0 0 1	1 1	1 0 0	0 0 0

0 00 12 1 1 0 0 2 1 12 1 0 0 00 0

<i>mendozaana</i>	0	0	1	1	0	0	0	0	0	1	1	2	1	0	0	0	0	0
<i>minor</i>	0	0	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0
<i>missionum</i>	0	0	0	0	?	?	0	0	0	2	1	1	1	1	0	0	0	0
<i>montium</i>	0	0	0	1	2	1	1	0	0	0	1	1	2	1	0	0	0	0
<i>neogrisescens</i>	0	?	?	1	1	0	1	0	?	2	1	1	1	1	0	0	0	0
<i>nigra</i>	0	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0
<i>nigrifemur</i>	0	0	?	?	?	?	?	0	?	0	?	1	1	1	0	0	0	0
<i>nigrifrons</i>	0	0	0	1	1	0	1	0	0	0	1	1	2	1	0	0	0	0
<i>antillanca</i>	0	0	0	1	2	1	1	0	0	2	1	1	1	1	0	0	2	1
<i>opaca</i>	0	0	0	1	2	1	1	0	0	0	1	1	2	1	0	2	2	0
<i>ornatissima</i>	0	?	1	1	0	0	0	0	?	2	?	1	2	?	0	0	2	0
<i>pallipes</i>	0	0	1	1	1	1	1	0	0	2	2	1	0	1	0	0	0	0
<i>penai</i>	0	0	0	1	2	1	1	0	0	0	1	1	2	1	0	0	0	0
<i>pereirai</i>	0	0	0	1	2	1	1	0	0	0	1	1	2	1	0	0	0	0
<i>pereirai_dureti</i>	0	0	0	1	2	1	1	0	0	0	1	1	2	1	0	0	0	0
<i>persignata</i>	0	0	0	0	?	?	1	0	0	1	1	1	1	1	0	0	2	0
<i>pilifer</i>	0	0	?	?	?	?	?	0	?	2	?	1	1	1	0	0	0	0
<i>poroma</i>	0	0	0	1	1	0	1	0	0	2	1	1	2	1	0	0	0	0
<i>pruinivitta</i>	0	0	0	1	2	1	1	0	0	0	1	1	1	1	0	0	0	0
<i>punensis</i>	0	0	1	1	?	1	1	0	0	2	1	1	2	1	0	0	0	0
<i>schineri</i>	0	0	?	1	2	1	1	0	0	2	1	1	0	1	0	0	0	0
<i>schnusei</i>	0	0	0	1	0	0	0	0	?	2	1	1	1	1	0	0	0	0
<i>senilis</i>	0	0	0	1	2	1	1	0	0	2	1	1	2	1	0	0	0	0
<i>shannoni</i>	0	0	0	1	0	0	1	0	0	2	1	1	1	1	0	0	2	0
<i>subtrita</i>	0	0	3	1	0	0	0	0	0	2	1	1	2	1	0	0	0	0
<i>testaceomaculata</i>	0	0	0	1	1	0	1	0	0	2	1	1	1	1	0	0	0	1
<i>testaceomaculata_longifrons</i>	0	0	0	1	1	0	1	0	0	2	1	1	0	1	0	0	0	0
<i>testaceomaculata_molestissima</i>	0	0	0	1	1	0	1	0	0	2	1	1	1	1	0	0	0	0
<i>trigonophora</i>	0	0	?	1	0	0	1	0	0	2	1	1	1	1	0	0	0	0
<i>tritrus</i>	0	0	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0
<i>vasta</i>	0	0	1	1	2	1	0	0	0	2	1	1	1	1	0	0	0	0
<i>collagua</i>	0	0	0	1	2	1	1	0	0	2	1	1	1	1	0	0	0	0
<i>Agelanius</i>	0	1	3	1	2	1	1	0	0	2	1	1	1	1	1	0	3	1
<i>Acellomyia</i>	0	0	3	1	1	0	1	0	0	0	1	1	1	1	0	0	2	1
<i>Haematopotina</i>	0	0	3	1	0	0	1	0	1	2	0	1	1	0	0	0	0	0
<i>Nubiloides</i>	0	0	3	1	1	1	1	1	0	2	1	1	1	1	0	0	3	1
<i>Haematopotina_argentina</i>	0	0	0	1	0	0	1	0	1	2	0	1	1	0	0	0	0	0
<i>Haematopotina_pechumani</i>	0	0	3	1	2	1	1	0	1	0	0	1	2	0	0	0	0	0
<i>Scaptiodes_gagatina</i>	1	0	1	1	2	1	0	0	0	0	1	0	2	1	0	0	0	1
<i>Dicladocera</i>	0	0	3	1	1	1	1	1	0	2	1	1	1	1	1	0	3	0
<i>Stenotabanus_sandyi</i>	0	0	3	0	?	?	0	0	0	1	1	1	1	1	1	0	0	0
<i>Stenotabanus_incipiens</i>	0	1	0	1	1	0	0	0	?	1	0	1	2	1	1	0	0	0
<i>nemopunctata</i>	0	1	1	0	?	?	1	1	0	2	2	1	1	1	1	2	3	1

<i>trilinealis</i>	0	1	0	0	?	?	1	0	0	2	2	1	2	1	1	0	0	0	1
<i>dubiosa</i>	0	1	0	1	0	0	1	0	0	0	1	1	0	1	0	0	0	0	?
<i>dixoni</i>	0	1	0	1	0	0	1	0	0	0	2	1	0	1	0	1	3	?	1
<i>gentilis</i>	0	1	0	1	2	1	1	0	0	0	1	1	1	1	0	0	0	?	0
<i>Stenotabanus_taeniotes</i>	0	0	4	0	?	?	0	0	0	1	3	1	1	0	1	0	3	0	0

1	0	1	?	1	00	1	0	1	02	0	0	0	1	00	1	01	0	0	2	0	0	0
1	0	1	?	0	00	1	0	1	10	1	?	1	0	01	1	01	0	0	2	0	0	0
0	0	0	0	0	0?	?	?	1	10	?	?	?	?	10	1	00	?	0	0	1	?	0
1	1	1	?	1	00	1	0	1	02	0	1	1	1	10	1	10	0	3	0	1	0	0
1	1	0	0	1	00	0	1	1	00	1	?	1	1	10	1	10	0	1	0	1	0	0
0	0	1	?	0	0?	?	0	1	12	0	1	1	1	10	1	10	0	2	0	1	0	?
1	1	0	1	0	00	0	0	1	02	0	0	1	1	01	1	10	0	0	1	1	0	0
0	1	1	?	0	00	1	0	1	10	0	0	1	1	10	1	00	0	1	0	1	0	0
1	1	0	1	0	00	0	0	1	00	1	?	1	1	11	1	00	0	0	1	1	0	0
1	1	1	?	0	00	1	0	1	00	0	1	1	1	01	1	00	0	0	1	1	0	0
1	1	0	1	0	00	1	1	1	10	0	1	1	1	01	1	00	0	0	0	1	0	0
0	1	0	1	1	00	1	0	1	02	?	?	1	1	01	0	10	0	0	0	1	0	0
0	0	1	?	0	00	1	0	1	10	0	0	1	1	01	1	00	0	0	2	1	0	0
1	1	1	?	0	0?	?	?	1	02	?	?	?	?	01	?	10	0	2	1	1	0	0
1	0	1	?	1	0?	?	0	1	00	0	0	1	1	01	0	10	0	?	1	1	0	0
0	1	0	0	0	0?	?	1	1	10	0	1	1	0	10	1	00	0	0	0	1	1	0
1	0	1	?	1	00	0	0	1	00	0	1	1	1	10	1	00	0	0	0	1	0	0
1	1	1	?	0	00	1	1	0	10	0	0	1	1	21	1	10	0	0	1	1	0	0
0	1	0	1	0	00	1	1	1	00	0	1	1	1	01	1	00	0	0	0	1	0	0
1	0	1	?	1	0?	?	0	1	12	0	0	1	1	01	1	00	0	?	0	1	0	0
1	1	1	?	0	00	1	0	1	10	0	0	1	1	10	1	10	0	0	0	1	0	0
0	0	0	0	0	00	1	1	1	10	0	1	1	1	01	1	00	0	0	0	1	0	0
1	1	1	?	0	00	1	0	1	02	0	0	1	0	01	1	00	0	0	1	1	0	0
0	0	1	?	0	0?	?	1	1	11	1	?	1	1	10	1	00	?	?	1	1	0	0
0	0	0	0	0	0?	?	1	1	10	0	0	1	1	10	1	00	?	?	2	1	0	0
0	1	1	?	0	0?	?	1	1	00	0	0	1	1	01	1	00	?	0	0	1	0	0
0	1	0	0	0	00	1	0	1	10	1	?	1	1	10	1	00	0	0	0	1	0	0
0	1	0	0	0	00	1	0	1	10	1	?	1	1	10	1	00	0	0	0	1	0	0
1	0	0	0	0	0?	?	1	1	10	0	0	1	1	10	0	00	?	?	0	1	0	0
1	1	1	?	0	00	0	0	1	00	0	1	1	1	10	0	00	0	0	0	1	0	0
1	0	1	?	1	00	1	0	1	00	1	?	1	1	01	1	00	0	0	1	1	0	0
0	0	0	0	0	00	1	0	1	10	0	1	1	1	01	1	00	0	0	1	1	0	0
0	1	1	?	0	0?	?	?	0	11	0	0	1	?	21	1	00	0	0	1	1	0	0
1	0	1	?	0	00	0	1	1	00	0	1	1	1	10	1	00	0	0	2	1	0	0
1	0	0	0	0	0?	?	1	1	10	0	1	1	0	10	1	00	0	?	0	1	0	0
0	0	1	?	0	0?	?	?	1	00	0	1	1	0	10	1	00	0	0	0	1	0	0
?	0	0	1	?	0?	?	0	1	11	0	1	1	1	10	1	10	0	0	0	1	1	0
1	1	1	?	0	0?	?	0	1	0?	0	1	1	1	11	0	00	0	0	0	1	0	?
0	1	0	0	0	00	1	1	0	12	0	0	1	0	21	1	00&1	0	0	0	1	0	0
0	0	0	1	0	00	1	0	1	10	0	0	1	0	10	1	00	0	0	0	1	0	0
0	0	0	1	0	00	1	0	1	10	0	0	1	1	10	1	10	0	0	1	1	0	0
1	0	0	1	0	00	1	0	1	12	0	0	1	1	10	1	10	0	0	1	1	0	0
1	1	1	?	0	0?	?	0	0	1?	0	0	1	0	21	1	00	0	2	1	1	0	0

1	1	0	1	00	0	1	0	10	0	0	0	1	1	0	1	1	0	0	0	0	1	1	0	0	
1	0	1	?	10	0	1	0	10	0	1	?	1	1	0	1	1	0	0	0	2	0	1	0	0	
1	0	0	0	1?	0	1	0	10	2	1	?	1	0	0	1	1	1	1	0	0	0	1	0	0	
1	1	1	?	00	0	1	0	11	0	0	0	1	1	1	0	1	0	0	0	0	1	1	0	0	
1	1	1	?	00	?	?	0	01	0	0	0	1	0	2	1	1	0	0	?	0	1	?	?	?	
1	1	0	0	00	0	1	1	10	1	0	0	1	1	1	0	1	0	0	0	0	1	1	0	0	
1	1	0	0	10	?	?	0	1?	?	?	?	1	0	1	0	1	0	0	?	?	0	1	?	?	
1	1	0	0	00	0	0	0	11	2	1	?	1	1	1	0	1	0	0	0	0	0	1	0	0	
1	1	1	?	00	0	0	0	10	2	0	0	1	0	0	1	1	1	0	0	0	1	1	0	0	
0	1	0	1	00	0	1	1	11	0	1	?	1	1	0	1	1	0	1	0	0	0	1	0	0	
1	1	1	?	00	?	?	0	10	0	0	0	1	1	0	1	1	0	0	?	?	1	1	?	?	
0	1	1	?	00	0	0	0	11	0	1	?	1	1	1	0	1	0	0	0	0	0	1	0	0	
0	0	1	?	00	?	?	0	01	0	0	0	1	1	1	0	1	2	1	?	?	0	1	1	0	0
0	1	0	1	00	0	1	0	11	0	0	1	1	1	0	1	1	2	0	0	0	0	1	0	0	
0	1	0	0	00	0	1	0	11	0	0	1	1	1	0	1	1	0	0	0	0	0	1	0	0	
1	1	1	?	00	0	1	0	10	0	0	1	1	1	1	0	1	0	0	0	2	0	1	0	0	
0	1	1	?	00	?	?	0	11	?	0	0	1	1	1	0	1	2	1	?	?	0	1	?	?	
0	1	1	?	00	?	?	1	01	2	0	0	1	0	2	1	1	1	0	?	?	0	1	1	1	0
1	1	0	0	00	0	0	0	11	0	0	1	1	1	1	0	1	0	0	0	0	0	1	0	0	
0	0	0	0	00	?	?	1	11	0	0	0	1	0	0	1	1	0	0	?	?	0	1	0	0	
0	1	1	?	00	?	?	1	01	0	1	?	1	1	0	1	1	0	0	?	?	1	0&1	0	?	
1	1	0	0	00	?	?	0	10	?	0	1	1	1	0	1	1	0	0	?	?	0	1	?	?	
0	1	0	0	00	0	0	0	11	2	0	1	1	1	0	1	1	1	0	0	0	0	1	0	0	
0	1	0	1	00	0	0	0	10	0	0	1	1	1	0	1	1	0	0	0	0	1	1	0	0	
1	0	0	1	00	0	0	1	10	0	0	0	1	1	1	0	1	0	0	0	0	0	1	1	0	0
0	1	0	0	10	0	1	0	10	0	0	1	1	1	1	0	1	0	0	0	0	0	1	0	0	
0	0	0	0	00	0	1	0	10	0	0	1	1	1	1	0	1	0	0	0	0	0	1	0	0	
0	1	0	0	00	0	1	0	10	0	0	1	1	1	1	0	1	0	0	0	0	0	1	0	0	
1	1	1	?	00	?	?	0	10	0	0	1	1	1	0	1	1	0	1	0	0	0	1	0	0	
1	0	1	?	00	0	0	0	10	0	0	1	1	1	0	1	1	2	0	0	0	1	1	0	0	
0	0	1	?	00	0	0	0	01	0	0	1	1	1	0	1	1	0	0	0	2	1	1	0	0	
0	1	1	?	00	0	1	0	01	2	0	0	1	0	2	1	1	0	1	0	0	0	1	0	0	
1	0	0	1	10	0	0	0	10	0	0	0	1	1	1	0	1	1	0	0	0	0	1	1	0	0
1	0	1	?	00	0	0	0	10	0	0	0	1	0	0	1	1	0	0	0	0	1	1	0	0	
1	1	1	?	10	0	0	0	01	2	0	1	1	0	2	0	1	0	0	0	0	1	1	1	1	
1	0	0	0	00	0	0	1	10	0	0	0	0	1	0	1	1	0	0	1	0	2	1	0	0	
1	1	1	?	10	0	0	0	10	2	0	1	1	0	1	0	1	1	0	0	0	1	0	1	1	
1	1	1	?	00	0	0	0	01	2	0	1	1	0	1	0	1	0	0	0	0	1	0	1	1	
0	1	0	1	10	1	?	1	11	0	1	?	1	1	1	0	1	0	1	0	0	2	1	0	0	
0	0	1	?	00	0	0	0	10	0	0	0	0	0	0	1	1	0	1	0	0	2	1	1	0	
1	0	0	0	11	1	?	0	10	0	0	1	1	1	1	0	1	0	1	?	?	2	1	0	0	
1	0	0	0	00	0	1	1	10	1	0	1	1	0	0	1	1	0	1	1	0	0	1	0	0	
0	0	1	?	10	0	1	1	10	1	0	1	1	1	0	1	1	2	1	0	0	0	0	0	0	

1	0	0	0	1	0	0	1	0	1	0	0	0	1	1	1	0	1	1	0	0	1	0	0	0	0	0
1	0	1	?	1	0	0	0	0	1	0	1	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0
0	0	1	?	1	0	0	0	0	1	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0
0	0	1	?	1	0	0	1	0	1	0	1	0	1	1	1	0	1	1	0	0	0	0	1	0	0	0
1	0	0	0	0	0	0	1	0	1	0	0	1	1	1	1	0	1	0	2	1	1	0	0	1	0	0

1	1	0	0	1	0	1	0	1	2	0	1
0	0	0	1	1	1	2	0	1	0	1	1
0	0	0	1	1	?	?	?	?	?	?	?
0	0	1	0	1	1	1	0	0	2	0	0
0	0	0	1	1	1	2	2	1	2	0	0
0	0	1	1	?	2	0	2	1	2	0	0
0	0	1	0	1	0	1	0	1	2	0	0
1	0	1	1	0	1	2	0	0	2	0	0
0	0	1	0	1	0	0	0	1	2	0	0
0	0	0	1	1	0	0	0	1	2	0	0
0	0	0	1	1	3	0	0	1	2	0	0
0	0	0	1	1	0	2	2	1	2	0	0
0	0	1	0	1	1	0	0	1	2	0	0
0	0	1	0	1	0	3	0	?	2	0	0
0	0	1	0	1	0	0	0	1	2	0	0
1	0	1	1	1	0	0	2	1	2	0	0
0	0	0	1	0	1	1	0	1	2	0	0
0	0	1	1	?	?	?	?	?	?	?	?
0	0	0	1	1	0	0	0	1	2	0	0
0	0	0	0	?	0	2	0	1	2	0	0
1	0	0	1	0	1	0	0	1	2	0	0
1	0	1	1	1	2	1	2	1	2	0	0
0	0	0	1	1	2	0	2	1	2	0	0
1	0	1	1	1	0	2	2	1	2	0	0
1	0	1	1	1	1	0	0	1	2	0	0
0	0	0	1	1	1	0	0	1	2	0	0
1	0	0	1	1	1	1	0	1	2	0	0
1	0	0	1	1	1	1	0	1	2	0	0
0	0	0	1	?	0	0	0	1	2	0	0
1	0	0	1	1	1	2	0	1	2	0	0
0	0	1	0	0	0	2	0	1	2	0	0
0	1	1	1	1	?	?	?	?	?	?	?
0	0	0	1	1	1	2	0	1	2	0	0
0&1	0	1	1	1	0	0	1	1	2	0	0
1	0	0	1	1	1	0	0	0	2	0	0
1	0	0	1	?	2	1	?	?	2	0	0
0	0	0	1	?	?	?	?	?	?	?	?
0	0	0	1	1	1	0	2	1	2	0	0
1	0	1	0	1	0	0	0	0	2	0	0
1	0	0	1	0	3	0	0	1	2	0	0
0	0	0	1	1	4	2	2	1	2	0	0
0	0	0	1	1	0	2	0	1	2	0	0
0	0	0	1	1	?	?	?	?	?	?	?

0	0	0	1	0	1	1	0	1	2	0	0
0	0	1	0	1	0	2	0	1	2	0	0
0	0	1	0	0	0	2	0	1	2	0	0
1	0	0	1	0	1	2	0	0	2	0	0
0	?	1	1	1	?	?	?	?	?	?	?
0	0	1	1	1	0	0	2	1	2	0	0
1	0	1	0	?	?	?	?	?	?	?	?
1	0	1	1	1	2	1	0	0	2	0	0
1	0	0	1	0	?	2	0	1	2	0	0
1	0	1	1	?	2	2	0	1	2	0	0
0	?	0	0	1	1	1	0	1	2	0	0
1	0	0	1	1	1	2	0	1	2	0	0
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1	0	0	1	0	2	3	0	1	2	0	0
1	0	0	1	0	2	3	0	1	2	0	0
1	0	0	0	1	0	2	0	0	2	0	0
1	0	1	1	1	?	?	?	?	?	?	?
0	0	1	1	1	1	1	0	1	2	0	0
0	0	0	1	1	1	2	0	?	2	0	0
0&1	0	0	1	0	1	0	0	1	2	0	0
?	0	0	1	0	1	1	0	0	2	0	0
0	?	1	1	1	?	?	?	1	?	?	?
1	0	1	1	1	0	3	0	1	2	0	0
0	0	0	1	0	2	0	0	1	2	0	0
0	0	0	1	0	1	2	0	1	2	0	0
1	0	1	0	0	1	2	0	1	2	0	0
1	0	1	1	0	1	2	0	1	2	0	0
1	0	1	1	0	0	3	0	1	2	0	0
0&1	0	0	1	0	1	2	0	1	2	0	0
0	0	0	1	1	0	2	0	?	2	0	0
0	0	1	0	1	4	2	0	1	2	0	0
1	0	1	1	1	1	3	0	1	2	0	0
0	0	0	1	1	1	2	0	1	2	0	1
0	0	0	1	1	1	2	0	1	1	0	0
1	0	0	0	1	0	0	0	0	1	0	0
1	0	0&1	0	1	1	2	0	1	2	0	1
1	0	0	0	1	0	0	0	0	1	0	0
1	0	0	1	1	0	0	0	0	1	0	0
1	1	1	1	1	1	2	0	1	1	0	1
1	0	1	1	1	0	1	0	1	2	0	1
1	0	1	0	1	1	0	0	0	2	0	1
0	0	0	0	1	1	0	0	0	0	1	1
0	0	1	1	1	1	0	1	1	0	1	1

0	0	0	0	0	0	0	2	1	0	1	1
0	0	0	1	1	1	0	1	1	0	1	1
0	0	0	1	1	1	0	0	1	0	1	1
0	0	0	1	1	1	0	1	1	0	1	1
1	0	1	0	1	1	0	0	0	2	0	1

Supplementary Table IV

A TPS file for *_Dasybasis_* wing landmarks (30 Landmarks)

LM=30

4.088370	8.414550
3.232770	9.425710
3.932800	10.009070
4.477280	10.553540
4.438380	11.020230
6.460710	10.242420
12.177670	10.981340
15.211160	10.942450
19.411370	10.086850
20.266970	9.347930
17.427940	5.769970
16.922360	5.458840
15.677850	4.992150
13.888870	4.525460
12.527690	4.369890
10.077560	4.292110
9.688650	4.797690
8.366360	7.442270
9.260850	7.675620
9.494200	7.908960
8.794160	8.881240
12.255450	6.625560
9.999780	8.920130
9.260850	9.970180
10.116450	9.347930
13.344390	6.936690
13.577740	7.481160
15.522280	8.025640
15.794520	8.531220
NA	NA

ID=Tabanus

LM=30

3.732610	7.236300
3.265920	7.936330
3.810390	8.286350
3.849280	8.675260
3.927060	9.025280
5.404920	8.441910
9.410680	8.908600
9.760690	8.869710
14.077580	8.403020
15.049850	7.858550
13.844230	5.252860
12.910850	4.747280
12.094150	4.475040
11.082980	4.125020

9.877370 3.969460
7.971710 3.891680
7.660590 4.436150
7.116110 6.186240
7.855040 6.419590
8.010600 6.536260
7.349460 7.391860
9.799580 5.719550
8.088390 7.469640
7.543910 8.208570
8.049490 7.702990
10.577400 5.952900
10.616290 6.302910
12.171930 6.730710
12.405270 7.080730
12.094150 7.236300
ID=Dasybasis_appendiculata

LM=30

2.813460 7.207530
2.525580 7.840870
3.101340 8.128750
3.130130 8.531790
3.158920 8.819670
4.454400 8.330270
8.081720 8.531790
9.434770 8.589370
12.428760 8.042390
12.975740 7.610560
11.392380 5.509020
10.931770 5.307500
10.068120 4.990830
9.031740 4.846890
8.139300 4.674160
6.412000 4.674160
6.181690 5.105980
5.577140 6.459030
6.296850 6.631760
6.354420 6.746920
5.980180 7.380260
8.081720 5.969630
6.613520 7.437830
6.325640 8.013600
6.728670 7.754510
8.772640 6.257510
8.887800 6.660550
10.442360 6.746920
10.643880 6.919650
NA NA
ID=albohirta

LM=30

6.161910 6.611090
5.825800 7.130540
6.345250 7.466650

7.628580 7.619420
6.436910 7.711090
6.406360 7.955540
9.920250 7.863870
10.592470 7.924980
13.220250 7.558310
13.861910 7.038870
12.792470 5.602760
11.998030 5.297200
11.295250 5.144420
10.714690 5.022200
10.134140 4.899980
8.850800 4.838870
8.667470 5.113870
8.300800 6.091650
8.728580 6.244420
8.820250 6.427760
8.606360 6.855530
10.073030 5.908310
9.034140 6.916650
8.820250 7.405540
9.095250 7.130540
10.500800 6.122200
10.592470 6.366650
11.906360 6.427760
12.028580 6.641650
11.875800 6.702760

ID=albosignata

LM=30

3.166270 5.052760
2.799600 5.663870
3.380160 6.122200
3.807940 6.488870
3.807940 6.733310
5.091270 6.305530
9.185720 6.549980
10.255160 6.488870
13.891270 5.816650
14.655160 5.266650
12.821830 2.822200
12.057940 2.486090
11.171830 2.241650
9.949600 1.997200
9.032940 1.874980
6.863490 1.905530
6.771830 2.272200
5.977380 4.288870
6.863490 4.258310
6.955160 4.441650
6.588490 5.144420
8.910720 3.555530
7.382940 5.144420
7.046830 5.938870
7.444050 5.480530
9.705160 3.830530

9.857940 4.136090
11.477380 4.288870
11.630160 4.686090
11.355160 4.869420
ID=alticola

LM=30

3.607660 3.877870
2.989450 4.518980
3.561870 5.022710
3.859530 5.457750
3.790840 5.915680
5.828650 5.251680
10.247730 5.938580
11.209400 5.869890
15.514000 5.320370
16.452770 4.725050
14.987370 2.504060
14.140190 2.000330
13.018250 1.496600
11.690230 1.130250
10.568290 0.855490
8.255710 0.786800
7.935160 1.153150
7.294050 3.076480
8.095430 3.236760
8.164120 3.488620
7.545910 4.221320
10.430910 2.504060
8.530470 4.312910
8.141230 5.091400
8.644960 4.633460
11.415470 2.962000
11.529950 3.442830
13.315900 3.671800
13.544870 3.923660
NA NA
ID=andicola

LM=30

3.694010 5.509020
3.233400 6.113570
3.694010 6.487820
3.953100 6.833280
3.895530 7.121160
5.075850 6.660550
8.444080 6.919650
8.962270 6.890860
12.388080 6.430240
13.021420 5.998420
11.639580 4.012030
11.035030 3.666560
10.459260 3.407470
9.538040 3.119590
8.645600 3.004430

7.148610 2.975650
6.918300 3.205950
6.256170 4.818100
6.918300 4.875670
6.947090 5.048400
6.601630 5.652960
8.588020 4.328700
7.148610 5.710540
6.803150 6.401460
7.206180 5.998420
9.106210 4.587790
9.192580 4.933250
10.516840 5.221130
10.631990 5.451440
10.344110 5.624170

ID=antilope

LM=30

3.786290 3.210150
3.103940 3.873550
3.767340 4.385310
3.805250 4.745440
3.748380 5.029760
5.662760 4.650670
9.301980 5.238250
10.041200 5.351980
14.343810 5.314070
15.215710 4.916030
13.547730 2.357210
12.789560 1.997080
11.936620 1.655900
10.894140 1.257860
9.908520 1.068320
8.354270 0.840870
8.051000 1.144130
7.008520 2.906880
7.652960 3.020610
7.728780 3.172240
7.235970 3.759820
9.643160 2.527790
8.126820 3.873550
7.671910 4.574850
8.259500 4.214720
10.401330 2.850020
10.496100 3.267010
12.315710 3.627140
12.486290 3.949360
11.500670 4.214720

ID=arauca

LM=30

4.211950 5.537480
3.744450 6.362480
4.294450 6.664980
4.459450 7.077480

4.431950 7.434980
6.026950 6.884980
9.684450 7.297480
10.729450 7.297480
13.946950 6.719980
14.799450 6.279980
13.259450 4.327480
12.461950 3.914980
11.664450 3.584980
10.811950 3.227480
9.904450 3.062480
8.061950 2.952480
7.924450 3.117480
7.264450 4.712480
7.896950 4.959980
8.034450 5.207480
7.566950 5.867480
9.656950 4.547480
8.144450 5.977480
7.786950 6.719980
8.281950 6.252480
10.371950 4.904980
10.481950 5.234980
12.021950 5.454980
12.104450 5.647480
11.856950 5.812480
ID=arica

LM=30

3.757860 6.084780
3.354820 6.862070
3.959380 7.207530
3.930590 7.639350
4.016950 7.927240
5.801830 7.437830
9.170060 7.984810
10.148870 7.984810
13.574670 7.236320
14.467110 6.804490
13.229220 4.875670
12.279200 4.415060
11.357970 3.896870
10.350380 3.724140
9.659460 3.580200
7.845800 3.465050
7.586710 3.868080
6.867000 5.422650
7.500340 5.509020
7.701860 5.796900
6.982150 6.574180
9.342790 5.221130
7.759440 6.631760
7.471550 7.265110
7.932170 6.862070
9.976140 5.422650
10.062500 5.796900

11.789800 5.998420
12.020110 6.343880
11.761010 6.459030
ID=belenensis

LM=30

3.904540 3.537760
3.376090 4.087350
3.967960 4.700360
4.306170 5.080850
4.200480 5.419060
6.081780 4.975150
10.689910 5.440190
11.641130 5.503610
15.974470 4.827190
16.883410 4.171900
15.107800 1.719870
14.262270 1.297100
13.247640 0.980030
11.873650 0.747510
11.028120 0.578400
8.872030 0.747510
8.491540 1.085720
7.709420 2.861330
8.385850 2.903610
8.512680 3.114990
7.963080 3.875970
10.732190 2.290600
8.829750 3.918240
8.428120 4.679220
8.977720 4.277590
11.619990 2.480840
11.767960 2.882470
13.480160 3.262960
13.628120 3.601170
13.289910 3.812550

ID=bonariensis

LM=30

3.144810 5.930510
2.634940 6.440380
3.258120 6.865280
3.428080 7.261850
3.456400 7.516790
5.042680 6.950260
8.583490 7.233520
9.914830 7.233520
12.832450 6.610340
13.738900 6.128790
12.322580 4.032640
11.416130 3.664390
10.509690 3.409450
9.631570 3.267820
8.696790 3.154520
6.883900 3.154520

6.685620 3.381130
6.147410 5.109040
6.713940 5.165690
6.912230 5.335650
6.459010 6.015490
8.668470 4.457530
7.195490 5.987160
6.883900 6.667000
7.308800 6.270430
9.404960 4.655820
9.603240 5.024060
10.962910 5.307330
11.076220 5.505610

NA NA
ID=bruchii

LM=30

3.733570 6.491870
3.431450 7.096120
3.925830 7.563030
4.173030 7.947550
4.063160 8.249680
5.820970 7.727830
9.418970 7.920090
10.462670 7.892620
13.676150 7.123580
14.362800 6.546800
12.824720 4.679140
12.055680 4.322080
11.204240 4.074890
10.105610 3.855170
9.364040 3.772770
7.413980 3.882630
7.331580 4.019960
6.727330 5.750300
7.304110 5.832700
7.496370 6.024960
7.056920 6.711600
9.061920 5.283380
7.743570 6.766530
7.413980 7.480640
7.825960 7.041180
9.803490 5.585500
9.940820 5.832700
11.616230 5.860160
11.835950 6.024960
11.616230 6.244680

ID=bulbula

LM=30

3.172600 5.143010
2.602200 5.713400
3.276310 6.206020
3.535580 6.569000
3.535580 6.906060

5.013430 6.309730
8.695100 6.491220
10.302590 6.517150
13.284220 5.868970
14.036110 5.350420
12.247130 3.276240
11.573030 2.965120
10.717430 2.679920
9.628480 2.472500
8.695100 2.316940
6.906120 2.420640
6.828340 2.472500
6.050520 4.442970
6.724630 4.468900
6.828340 4.598530
6.413500 5.272640
8.643250 3.768860
7.113540 5.350420
6.932050 6.050460
7.295030 5.583770
9.291430 4.002210
9.421060 4.365190
11.132260 4.520750
11.287830 4.754100
10.924840 5.013370
ID=canipilis

LM=30

4.192490 2.967800
3.731440 3.482050
4.281150 3.907630
4.316620 4.173620
4.334350 4.528280
5.894830 4.138160
8.927120 4.616940
10.877720 4.705610
12.899250 4.492810
13.750420 4.155890
12.615530 1.992500
11.799820 1.549180
11.037320 1.318660
10.274810 0.964000
9.459110 0.751210
7.774500 0.591620
7.614900 0.857610
6.887860 2.400350
7.419840 2.471280
7.543970 2.666340
7.118390 3.286990
9.175380 2.098900
7.756770 3.411120
7.384380 3.978560
7.845430 3.641640
9.707360 2.382620
9.796030 2.684080
11.161450 3.074200

11.232380 3.251520
NA NA
ID=caprii

LM=30

2.568420 2.939380
2.101760 3.456050
2.568420 3.872720
2.718420 4.189380
2.601760 4.456050
4.218420 4.072720
7.568420 4.306050
8.185090 4.306050
11.818420 3.706050
12.668420 3.189380
11.085090 1.439380
10.385090 1.122720
9.568420 0.872720
8.635090 0.639380
7.985090 0.489380
6.251760 0.506050
6.001760 0.822720
5.418420 2.172720
5.935090 2.322720
6.018420 2.556050
5.535090 3.156050
7.718420 1.889380
6.151760 3.222720
5.801760 3.822720
6.235090 3.489380
8.285090 2.156050
8.335090 2.422720
9.851760 2.572720
10.018420 2.789380
NA NA
ID=chilensis

LM=30

4.032410 6.152760
3.237970 6.824980
3.971300 7.374980
4.093520 7.894420
4.062970 8.199980
6.110190 7.680530
10.265740 8.108310
11.151860 8.077760
15.062970 7.436090
15.918520 6.794420
14.176860 4.502760
13.199080 4.105530
12.343520 3.861090
11.365740 3.616650
10.357410 3.463870
8.401860 3.463870
8.310190 3.647200

7.454630 5.541650
8.157410 5.694420
8.218520 5.908310
7.668520 6.672200
10.296300 4.930530
8.524080 6.641650
8.035190 7.405540
8.615740 6.977760
10.968520 5.327760
11.090740 5.724980
13.076860 5.786090
13.229630 5.999980

NA NA

ID=chillan

LM=30

3.510770 4.096710
3.071120 5.063940
3.884470 5.305740
3.994390 5.789360
3.928440 6.053140
4.060330 5.393670
10.149460 6.338920
12.039950 6.382880
15.469210 5.745390
16.348510 5.239790
14.611900 2.228200
13.886480 1.788550
13.007180 1.348910
11.556340 0.887280
10.325320 0.799350
7.995190 0.755380
7.731400 1.238990
7.159860 3.261380
7.775360 3.283360
7.863290 3.591110
7.335710 4.448430
10.061530 2.689830
8.324920 4.580320
7.929240 5.415650
8.456820 4.954020
11.116690 2.931640
11.226600 3.547150
12.919250 3.920850
13.161060 4.250590
12.721410 4.558340

ID=chubutensis

LM=30

3.782420 3.846320
3.170760 4.605610
4.119880 5.048530
4.056610 5.470360
3.972240 5.828920
6.060300 5.343810

10.826990 5.892190
11.923750 5.765650
15.741320 5.238360
16.774800 4.647790
15.150750 2.285540
14.117270 1.737160
13.273610 1.420790
12.050300 1.104410
11.101180 0.872410
8.907660 0.745860
8.654560 1.083320
7.810900 3.002650
8.422550 3.171390
8.506920 3.340120
7.831990 4.204870
10.805900 2.580820
8.654560 4.247050
8.338190 5.132900
8.844380 4.647790
11.565190 3.044840
11.670650 3.403390
13.779800 3.382300
13.948540 3.656490
NA NA
ID=coquimbo

LM=30

3.704110 3.427270
2.808420 4.139740
3.602320 4.852220
3.826240 5.259340
3.744820 5.686830
5.861890 5.198270
10.014590 5.707180
11.174910 5.727540
15.083340 5.238990
16.080800 4.669010
14.228370 2.205880
13.454830 1.798750
12.518430 1.411980
11.297050 1.126990
10.421720 0.882710
8.243590 0.638440
7.958600 0.903070
7.164700 2.938710
7.734680 3.101560
7.816100 3.345840
7.347900 4.078670
10.075660 2.450160
8.101090 4.221170
7.632890 5.015070
8.223230 4.526510
10.828850 2.959070
10.910280 3.366200
12.660930 3.752970
12.823780 3.936180

NA NA
ID=cumelafquen

LM=30

NA NA
2.309990 6.372670
2.828180 6.804490
2.943340 7.063590
2.885760 7.293890
4.411540 6.919650
7.319160 6.948430
8.096450 6.948430
11.176800 6.286300
11.954080 5.825690
10.601030 4.012030
9.996470 3.781720
9.161610 3.551410
8.269180 3.465050
7.635830 3.436260
5.994900 3.666560
5.793380 3.954450
5.361560 5.336290
5.822170 5.393860
5.937320 5.480230
5.534290 6.056000
7.520680 4.702940
6.110050 6.027210
5.879740 6.574180
6.282780 6.199940
8.067660 4.846890
8.240390 5.105980
9.622230 5.163560
9.679800 5.278710

NA NA
ID=delpontei_sepiapes

LM=30

2.702150 2.884090
2.219700 3.349900
2.652240 3.765810
2.768690 4.098530
2.718780 4.381340
4.033040 4.031980
7.293720 4.481160
7.892620 4.547700
11.253120 4.131800
12.084930 3.616080
10.737400 1.719560
10.138500 1.336930
9.323330 1.037480
8.574700 0.771300
7.726260 0.638210
6.212370 0.521760
6.012740 0.837850
5.447110 2.251920

5.879650 2.385010
5.946190 2.568000
5.413840 3.216810
7.692990 1.969100
5.996100 3.166900
5.646740 3.915530
6.079280 3.516260
8.158800 2.251920
8.175440 2.617910
9.589510 2.834180
9.689330 2.950640
9.506330 3.083720

ID=diaguaita

LM=30

2.352470 6.440360
1.777830 7.151810
2.434560 7.644360
2.571370 8.027440
2.598740 8.328440
4.185820 7.753810
8.235620 8.000080
9.248070 8.000080
13.434690 7.370720
14.337690 6.768720
12.449610 4.497550
11.847610 4.169190
10.944610 3.813460
9.904800 3.594550
8.864980 3.457740
6.703270 3.403010
6.429630 3.813460
5.800270 5.646820
6.511720 5.728910
6.593810 5.865730
5.937090 6.686630
8.673440 5.044820
6.785360 6.796090
6.539080 7.343360
6.949540 7.042360
9.412250 5.400550
9.494350 5.728910
10.999340 6.002540
11.108790 6.166720

NA NA

ID=elquiensis

LM=30

NA NA

2.098430 3.776590
2.762480 4.030490
2.782010 4.460170
2.821080 4.772670
4.383560 4.225800
7.899160 4.811730

9.246800 4.850790
12.664740 4.499240
13.504570 4.128140
11.844430 2.253160
11.160840 1.862540
10.360070 1.530510
9.305390 1.198480
8.446030 0.944580
6.590570 0.710210
6.336670 1.042240
5.594490 2.409410
6.297610 2.663310
6.356200 2.878160
5.887450 3.444560
8.348370 2.331290
6.629640 3.561740
6.199950 4.108610
6.707760 3.757050
8.895240 2.663310
8.953830 2.975810
10.477260 3.229720
10.653040 3.522680
10.555380 3.620340
ID=erynnis

LM=30

NA NA
2.914490 4.297960
3.717800 4.807380
3.913730 5.199240
3.698210 5.532320
5.657510 4.983720
9.850390 5.258020
11.025970 5.258020
15.042520 4.572270
15.982980 3.808140
14.180430 1.672510
13.318340 1.300250
12.181950 0.967170
10.947600 0.751640
9.967950 0.634090
7.871510 0.673270
7.655990 0.986760
6.872270 2.887270
7.538430 2.926460
7.675580 3.141980
7.185760 3.906110
9.654470 2.319080
8.106620 3.925700
7.773540 4.591860
8.204590 4.317560
10.536150 2.671750
10.594930 3.063610
12.593410 3.083200
12.769740 3.318320
12.573810 3.455470

ID=fairchildi

LM=30

5.457450	6.893610
5.060880	7.346830
5.400790	7.686750
5.655730	8.026660
5.655730	8.253280
6.987070	7.941680
9.876370	8.309930
10.584530	8.309930
13.728770	7.885030
14.408600	7.375160
13.020610	5.732220
12.482400	5.448960
11.830900	5.165690
10.924450	4.882430
10.131310	4.740800
8.573360	4.684140
8.488380	4.825780
7.865190	6.270430
8.346740	6.327080
8.403400	6.553690
8.120130	7.091890
10.046330	6.072140
8.714990	7.148550
8.488380	7.715070
8.771640	7.403480
10.471230	6.383730
10.556210	6.553690
11.887550	6.751970
11.944200	6.921930
11.717590	7.120220

ID=fornesi

LM=30

NA	NA
2.904720	4.001100
3.546030	4.605760
3.527710	5.063840
3.472740	5.393660
5.433320	5.045520
9.207890	5.631860
10.417220	5.686830
14.393340	5.283720
15.419440	4.770670
13.825330	2.516920
13.110720	2.040520
12.212890	1.619090
11.150140	1.215980
10.179020	0.977780
7.851980	0.629640
7.797010	0.977780
7.045760	2.938360
7.577130	2.993330

7.650420 3.304820
7.137370 3.964450
9.812550 2.590220
7.778680 4.092720
7.448870 4.843960
7.888620 4.477500
10.527160 3.084940
10.673740 3.433080
12.451090 3.616310
12.634320 3.854510
NA NA
ID=frequens

LM=30

2.672460 2.659780
2.291100 3.147910
2.718220 3.559780
2.702970 3.819100
2.702970 4.078420
3.938560 3.758080
6.775850 4.215710
7.736870 4.291980
10.360600 4.124190
11.077550 3.712320
10.040260 1.744520
9.292800 1.363160
8.667380 1.088590
7.950430 0.905540
7.386020 0.753000
5.906360 0.661470
5.647040 0.920790
5.052120 2.293670
5.540260 2.415710
5.647040 2.568250
5.235170 2.995370
6.989410 2.080120
5.830090 3.117410
5.433480 3.605540
5.845340 3.346220
7.477550 2.354690
7.492800 2.614010
8.636870 2.873340
8.743650 3.163170
8.377550 3.239440
ID=hepperi

LM=30

NA NA
2.694000 5.465780
3.171540 6.034280
3.330710 6.489070
3.398930 6.830160
5.013450 6.193450
9.652350 6.557290
11.107690 6.511810

15.814810 5.556740
16.883580 4.692630
14.746040 1.850170
13.813720 1.440850
12.813170 1.122500
11.607960 0.872360
10.493720 0.622230
7.969610 0.599490
7.719480 1.099760
6.946330 3.532910
7.628520 3.646610
7.742220 3.896740
6.923590 4.897290
10.107140 2.759760
7.764960 4.897290
7.332900 5.852360
7.924130 5.329340
10.880290 3.260030
10.903030 3.805780
13.154260 3.692090
13.267960 3.919480
NA NA
ID=hirsuta

LM=30

3.374590 3.053320
2.750210 3.753380
3.279990 4.302080
3.525950 4.775090
3.488110 5.077820
5.474770 4.756170
9.788660 5.380550
10.715770 5.437310
14.670170 5.039980
15.672960 4.453440
14.140400 2.201890
13.326810 1.672120
12.475390 1.274780
11.302310 0.858530
10.280600 0.555800
8.237180 0.423360
7.953370 0.688250
7.045180 2.599220
7.877690 2.693830
7.934450 2.901950
7.139780 3.734460
10.053550 2.277570
8.142570 3.791220
7.574960 4.585880
8.123650 4.131790
10.791460 2.674910
10.867140 2.996550
12.910560 3.337130
13.024080 3.488490
NA NA
ID=inata

LM=30

2.875220	2.932330
2.378700	3.677110
3.105740	3.996300
3.105740	4.386420
3.034810	4.670140
4.825820	4.102690
8.638350	4.616940
10.234290	4.634670
13.124730	4.084960
14.029100	3.482050
12.379950	1.655580
11.723840	1.300920
10.837210	0.928540
9.737780	0.680280
8.868880	0.502950
6.847350	0.449750
6.599090	0.804410
6.049380	2.293960
6.758680	2.364890
6.847350	2.524480
6.368560	3.304720
8.620620	1.974770
7.219730	3.340190
6.811880	4.014030
7.255200	3.588440
9.365390	2.293960
9.489520	2.559950
10.872670	2.896870
11.032270	3.109660
10.890410	3.180590

ID=kroeberi

LM=30

2.639420	6.308060
2.191260	6.781110
2.539830	7.129670
2.763900	7.453340
2.739000	7.702310
3.784690	7.353750
6.971550	7.926390
7.842960	7.901490
10.755950	7.453340
11.428170	7.179470
10.432280	5.411760
9.859640	5.063200
9.087820	4.714630
8.340900	4.490560
7.818060	4.341170
6.249530	4.191790
6.050350	4.390970
5.178940	5.760320
5.726680	5.884810
5.776480	6.059090

5.228740 6.581930
7.369910 5.561140
5.751580 6.681520
5.303430 7.229260
5.776480 6.955390
7.842960 5.785220
7.892750 6.059090
9.112720 6.382750
9.287000 6.581930
9.137620 6.631730

ID=mendoza

LM=30

2.182480 5.878690
1.691060 6.717000
2.182480 7.063890
2.413740 7.468590
2.355930 7.757660
3.627850 7.208420
7.183460 7.642030
8.050680 7.584220
11.461750 7.034980
12.242250 6.485740
11.259390 4.722390
10.710160 4.433320
9.929660 4.144240
8.917900 3.826260
8.050680 3.652820
6.345140 3.566100
5.969350 3.797360
5.102130 5.358350
5.738090 5.387260
5.853720 5.647430
5.275570 6.341200
7.645980 5.011470
5.882630 6.341200
5.477920 6.977170
5.911530 6.601370
8.426470 5.387260
8.455380 5.531800
9.785120 5.791960
9.929660 6.109940
9.785120 6.254480

ID=minor

LM=30

2.226440 4.908000
1.733900 5.427910
2.363260 5.920450
2.664260 6.303540
2.554800 6.604540
4.087160 6.112000
7.972780 6.495090
8.437960 6.440360
12.952940 6.084630

13.746490 5.564730
12.132040 3.485100
11.420590 3.211460
10.544950 2.910460
9.395690 2.691560
8.520050 2.554740
6.659330 2.554740
6.385700 2.910460
5.427970 4.388100
6.248880 4.552280
6.330970 4.607000
5.893150 5.209000
8.109600 3.922920
6.686700 5.263730
6.248880 5.893090
6.714060 5.510000
8.903140 4.196550
8.957870 4.524910
10.544950 4.853280
10.763860 5.017460
10.544950 5.126910
ID=missionum

LM=30

NA NA
1.771260 6.074810
2.217270 6.280660
2.285880 6.520820
2.320190 6.726670
3.555280 6.349280
6.505770 6.520820
7.260550 6.589430
10.965820 6.109120
11.789210 5.628810
10.279660 3.810480
9.593500 3.536020
8.701490 3.364480
7.843790 3.261550
7.054700 3.192940
5.510840 3.330170
5.304990 3.673250
4.824680 4.942650
5.373610 4.942650
5.407910 5.011260
4.961910 5.628810
7.020390 4.290790
5.853920 5.560190
5.476530 6.109120
5.922540 5.800350
7.672250 4.565260
7.775170 4.805410
9.147490 4.976960
9.319030 5.182800
9.078880 5.388650
ID=nigra

LM=30

4.915570	5.011470
4.597580	5.445080
5.031190	5.734150
5.060100	5.936500
5.002290	6.138850
6.389840	5.878690
8.760240	6.081040
9.280580	6.109940
12.142410	5.878690
12.778370	5.473980
11.766610	4.086430
11.275180	3.941890
10.639220	3.739540
9.916540	3.566100
9.280580	3.508280
7.864120	3.508280
7.575040	3.768450
7.228150	4.693480
7.632860	4.838020
7.661760	4.924740
7.343780	5.271630
9.222760	4.404410
7.921930	5.329450
7.632860	5.705240
7.950840	5.502890
9.627460	4.635670
9.685280	4.780210
10.668130	5.011470
10.697040	5.098190

NA NA

ID=nigrifrons

LM=30

1.603120	6.184990
1.198630	7.101840
1.764920	7.533290
2.034580	7.937780
2.034580	8.288340
3.787360	7.560260
7.994060	7.722060
9.261460	7.641160
13.333320	6.508590
14.142300	5.726570
12.254680	3.434470
11.310870	3.191770
10.259200	2.868180
8.937860	2.679420
8.128880	2.571560
5.755880	2.760320
5.540150	3.245700
5.189590	5.106360
5.863740	5.106360
5.998570	5.268150
5.270490	6.373760

7.913160 4.351310
6.214300 6.319820
5.836780 7.128800
6.349130 6.643420
8.695170 4.513100
8.856970 4.971530
10.960310 4.971530
11.122110 5.214220
NA NA
ID=antillanca

LM=30

3.512210 3.175980
2.918210 3.813990
3.600210 4.363980
3.886210 4.869980
3.798210 5.265980
5.712210 4.649990
9.562210 5.463990
10.596210 5.419980
14.446210 4.935980
15.414210 4.363980
13.720210 2.251980
12.972210 1.855980
12.048210 1.503980
10.904210 1.151990
10.178210 0.953990
8.132210 0.689990
7.846210 1.041980
6.944210 2.581980
7.626210 2.779980
7.648210 3.087990
7.186210 3.725990
10.090210 2.471990
8.110210 3.923990
7.516210 4.627980
8.132210 4.165990
10.596210 2.801990
10.640210 3.241990
12.400210 3.417980
12.576210 3.659980
NA NA
ID=opaca

LM=30

3.214480 3.341920
2.717700 3.785470
3.249960 4.246760
3.249960 4.672570
3.498350 4.938700
5.183830 4.601600
9.158030 5.133860
9.725770 5.169340
13.238670 4.725790
14.108030 4.211280

13.203190 1.958050
12.387060 1.496760
11.322540 1.141920
10.364480 0.858050
9.406410 0.662890
7.508030 0.733860
7.259640 0.999990
6.603190 2.667730
7.419320 2.720960
7.490290 2.898380
6.833830 3.643540
9.441900 2.046760
7.756410 3.714500
7.153190 4.441920
7.845120 4.051600
10.133830 2.454830
10.169320 2.862890
11.641900 3.253210
11.819320 3.537080
11.588670 3.625800

ID=ornatissima

LM=30

4.218510 2.955990
3.558510 3.681990
4.174510 4.099990
4.306510 4.627980
4.174510 4.935980
6.110510 4.561980
9.960510 5.617990
10.884510 5.749980
15.108510 5.683980
16.362510 5.221990
14.954510 2.779980
14.030510 2.163980
13.062510 1.745980
11.874510 1.283980
11.038510 1.041980
8.992510 0.755990
8.574510 1.129990
7.826510 2.493980
8.530510 2.779980
8.574510 3.087990
7.936510 3.725990
10.642510 2.625990
8.552510 3.945980
8.244510 4.627980
8.728510 4.363980
11.346510 3.065980
11.390510 3.417980
13.106510 3.813990
13.260510 4.121980

NA NA

ID=pallipes

LM=30

3.447270	3.637990
2.765270	4.451980
3.601270	4.979990
3.843270	5.375990
3.777270	5.639990
5.625270	5.243990
9.783270	5.485990
10.487270	5.485990
14.931270	5.045980
15.965270	4.495990
14.557270	2.163980
13.655270	1.635990
12.423270	1.151990
11.213270	0.909990
10.025270	0.667990
8.089270	0.711990
7.847270	1.085980
6.945270	3.087990
7.803270	3.087990
7.979270	3.263980
7.341270	4.099990
10.069270	2.515990
8.309270	4.143980
8.133270	4.847990
8.441270	4.429990
10.927270	2.933980
11.015270	3.285990
12.797270	3.483990
12.973270	3.659980

NA NA

ID=penai

LM=30

2.723170	3.526260
2.378810	4.337960
2.969130	4.731500
3.116710	5.248030
3.141310	5.567790
4.838490	4.879080
8.749370	5.198840
9.388880	5.198840
13.693310	4.583920
14.677180	3.919810
12.660250	1.607720
11.971540	1.238760
10.938480	0.845220
9.880820	0.623850
8.847760	0.451670
6.732430	0.451670
6.634050	0.722230
6.043730	2.689970
6.781630	2.763760
6.880020	3.034330
6.338890	3.846020
8.847760	2.075050

7.125980 3.870620
6.806230 4.608520
7.248970 4.141180
9.536460 2.296430
9.831630 2.714570
11.405820 3.009730
11.602590 3.255700
NA NA
ID=pereirai

LM=30

3.479890 3.944830
2.958230 4.798470
3.622170 5.249000
3.977850 5.723240
3.977850 6.055210
5.613990 5.391270
10.048170 5.770670
10.901810 5.628390
15.762810 4.656200
16.829850 3.849980
14.577200 1.597320
13.557570 1.289060
12.585370 0.980810
11.257490 0.719970
10.095590 0.553990
7.724380 0.506560
7.510970 0.957090
7.013010 2.996340
7.724380 3.020050
7.842940 3.257180
7.392410 4.229380
10.048170 2.284980
8.293470 4.229380
7.795510 5.083010
8.317180 4.585060
10.949230 2.522100
11.138930 2.925210
13.012190 3.091190
13.201890 3.304600
13.012190 3.423160
ID=pereirai_dureti

LM=30

3.149630 3.323140
2.691550 3.872840
3.222920 4.275950
3.424480 4.642410
3.369510 4.917260
5.494990 4.422530
8.591610 5.008870
9.782610 5.027200
13.099100 4.917260
13.941970 4.459180
12.421150 2.333690

11.761510 1.893940
10.973620 1.564120
10.020810 1.197660
9.177950 0.941130
7.400600 0.702930
7.089110 1.069390
6.301210 2.498600
6.924200 2.681830
6.979170 2.938360
6.557740 3.616310
8.958070 2.352020
7.308990 3.652960
6.905880 4.275950
7.418920 3.909480
9.654350 2.553570
9.819260 2.956680
11.285110 3.304820
11.504990 3.634640
NA NA
ID=persignata

LM=30

3.515930 3.308490
2.859210 4.038180
3.461210 4.512480
3.716600 4.986780
3.607140 5.242170
5.431380 4.840840
9.426450 5.424600
9.900750 5.406360
13.822860 4.913810
14.589040 4.348300
13.366800 2.068010
12.618860 1.630190
11.688500 1.228860
10.593960 1.028190
9.663600 0.791040
7.711670 0.663350
7.419790 1.101160
6.744830 2.834190
7.365070 2.925400
7.456280 3.162550
7.000220 3.801030
9.371730 2.451100
7.675190 3.928730
7.328580 4.694910
7.748160 4.384780
10.192630 2.742970
10.210870 3.144310
11.889170 3.417940
12.089840 3.636850
NA NA
ID=pruinivitta

LM=30

2.012700 5.849780
1.376740 6.572460
2.099420 7.179520
2.359590 7.670940
2.330680 7.960020
4.672180 7.295150
9.066100 7.613130
10.569280 7.526400
14.905380 6.717000
15.743700 6.138850
13.633460 3.623910
12.679520 3.305930
11.523220 3.045760
10.309110 2.872320
9.326260 2.727780
6.869140 2.785600
6.695690 3.045760
5.799560 5.098190
6.637880 5.156000
6.695690 5.300540
6.088640 6.167760
9.846590 4.664580
7.273840 6.052130
6.695690 6.919350
7.331650 6.427930
10.164580 4.693480
10.193480 5.040370
12.332630 5.098190
12.477160 5.300540
NA NA
ID=senilis

LM=30

2.663650 7.785400
2.056270 8.483880
2.694010 8.969780
2.906590 9.364570
2.845860 9.637890
4.728720 9.151990
8.798120 9.425310
9.648440 9.455680
14.112630 8.726830
15.023690 8.149830
13.171210 5.811440
12.411990 5.447020
11.470560 5.112960
10.073600 4.839640
9.132170 4.718170
7.097470 4.718170
6.915260 5.052220
6.186410 6.965450
6.854520 6.995820
6.976000 7.238770
6.398990 7.997980
9.010700 6.358080
7.249310 7.997980

6.763420 8.817940
7.340420 8.332040
9.678810 6.661760
9.891390 7.026180
11.804620 7.299500
11.956460 7.542450
11.531300 7.785400

ID=shannoni

LM=30

3.333830 3.455470
2.824420 3.984480
3.353430 4.533080
3.431800 4.924940
3.412200 5.218830
5.018830 4.807380
8.761080 5.414760
9.701540 5.395170
13.287050 4.650640
13.992390 4.141220
12.522920 1.829260
11.915540 1.476580
11.151420 1.182690
10.250140 0.849610
9.348870 0.692860
7.389570 0.673270
7.115270 1.163090
6.429520 2.769720
7.115270 2.828500
7.154460 3.004830
6.468700 3.808140
9.054970 2.299480
7.115270 3.925700
6.801780 4.650640
7.213230 4.239190
9.721130 2.691340
9.819100 3.024420
11.229790 3.357500
11.347350 3.592620
11.053450 3.749360

ID=subtrita

LM=30

4.266610 8.505660
3.550310 9.290180
4.198390 9.767710
4.437160 10.245250
4.437160 10.756890
6.620170 9.938260
11.600160 10.620450
13.066880 10.552230
17.773990 9.733600
18.763170 8.914970
16.648380 6.186210
15.659200 5.776890

14.397150 5.333470
12.998660 5.026490
11.838930 4.855940
9.417150 4.821830
9.212500 5.094700
8.257430 7.516480
9.076060 7.584700
9.178390 7.857580
8.462090 8.812640
11.566050 6.868400
9.451260 8.914970
9.212500 9.835930
9.724140 9.221960
12.555230 7.209500
12.725780 7.721140
14.772350 7.994020
15.079340 8.266890
NA NA
ID=testaceomaculata

LM=30

3.088160 3.265760
2.617030 3.835040
3.127420 4.247280
3.245200 4.639890
3.264830 4.914710
5.011930 4.482840
8.643550 5.111010
9.526910 5.150270
13.276310 4.698780
14.061520 4.070610
12.589250 1.989790
11.882550 1.577550
11.038450 1.322360
10.115820 1.047530
9.232460 0.870860
7.249790 0.733450
7.053490 1.027900
6.052340 2.735740
6.680510 2.892780
6.798300 3.049830
6.366430 3.638740
8.780960 2.421660
7.151640 3.736890
6.759030 4.384690
7.210530 4.031340
9.526910 2.696480
9.664330 2.971310
11.018820 3.363910
11.136600 3.619110
10.901040 3.658370
ID=trigonophora

LM=30

4.388470 6.326340

3.869830 6.875490
4.388470 7.302610
4.693560 7.729730
4.571520 8.004300
5.974920 7.516170
9.452890 7.912780
10.886790 7.882270
13.693570 7.272100
14.425770 6.783960
12.961370 4.648370
12.259670 4.312770
11.527470 4.068700
10.612210 3.916160
9.818990 3.794130
7.988480 3.885650
7.652880 4.312770
7.195260 5.563620
7.713900 5.655150
7.805430 5.868710
7.408820 6.509390
9.574920 5.167010
7.988480 6.600910
7.774920 7.272100
8.110510 6.875490
10.154580 5.441590
10.276620 5.746670
11.771530 5.990740
11.954580 6.204300
11.680010 6.356840
ID=tritus

LM=30

3.595380 3.756860
3.040050 4.589860
3.687930 5.191460
3.896180 5.654230
3.942460 5.955040
6.024940 5.492260
10.074210 6.232700
10.837780 6.209560
15.442380 5.677370
16.414200 5.145180
14.887050 2.252850
14.100340 1.836350
13.174790 1.443000
11.902160 1.026500
10.768370 0.795110
8.570190 0.656280
8.269390 1.049640
7.297570 3.039570
8.107420 3.155260
8.269390 3.409780
7.737200 4.358470
10.490700 2.692490
8.570190 4.497300
7.991730 5.353430

8.616470 4.798100
11.277420 3.108980
11.369970 3.525480
13.244200 3.872560
13.383040 4.150220
12.758290 4.497300

ID=vasta

LM=30

5.125430 5.406470
4.760410 5.849700
5.203650 6.162570
5.203650 6.423300
5.177570 6.657950
6.637630 6.240790
9.088450 6.710100
10.209570 6.736170
12.842890 6.319010
13.442560 5.953990
11.826060 4.624300
11.408900 4.181060
10.809230 3.894270
10.131350 3.633540
9.505610 3.451030
7.758750 3.503180
7.654460 3.685690
7.419810 4.728590
7.836970 4.885020
7.889110 5.067530
7.498030 5.615050
9.349170 4.520010
8.045550 5.615050
7.810900 6.188650
8.097690 5.849700
9.974910 4.832880
10.000990 5.093600
11.174250 5.223960
11.382830 5.406470

NA NA

ID=collagua

LM=30

3.531200 6.327710
2.741610 7.117290
3.318620 7.694300
3.713410 8.210560
3.865250 8.726830
5.444420 7.967610
10.333780 8.635730
11.912950 8.635730
15.648300 8.180190
16.620090 7.572820
14.889080 4.809270
14.129860 4.323370
12.975850 3.837470

11.670000 3.503420
10.698200 3.230100
8.511660 2.926410
8.299080 3.321210
7.418390 5.416650
8.147240 5.568490
8.268710 5.811440
7.448760 6.752870
10.607100 5.021850
8.420550 6.783240
7.843550 7.694300
8.481290 7.208400
11.366310 5.416650
11.518160 5.872180
13.309910 6.266970
13.461750 6.509920
13.066960 6.692130

ID=Agelanius

LM=30

3.716930 5.986690
3.006390 6.923310
3.684630 7.472360
3.910710 8.021410
3.910710 8.505860
6.106920 7.698430
10.886890 8.441270
11.662020 8.441270
16.506590 7.633840
17.636980 6.891010
15.925240 4.307240
14.924030 3.725890
13.664440 3.273730
12.307960 2.886170
10.951480 2.692380
8.755280 2.434010
8.626090 2.660090
7.721770 5.017780
8.496900 5.211560
8.626090 5.566830
7.786370 6.568040
11.112970 4.565620
8.884470 6.632630
8.432310 7.504650
9.045950 6.955600
12.081880 5.017780
12.211070 5.469940
14.181190 5.857500
14.374980 6.212770

NA NA

ID=Acellomyia

LM=30

5.349720 7.491610
4.938020 8.006230

5.349720 8.383620
5.521260 8.692390
5.452650 9.069780
7.065120 8.623780
10.221470 9.035470
10.941930 9.069780
14.509970 8.589470
15.401980 8.040540
14.063970 6.153600
13.069030 5.638970
12.348560 5.501740
11.456560 5.227280
10.598850 5.124350
8.780530 5.124350
8.677600 5.433130
8.094370 6.736830
8.780530 6.839760
8.849140 7.079910
8.368830 7.697460
10.358700 6.462370
8.952070 7.766070
8.814840 8.383620
9.123610 8.040540
11.113470 6.736830
11.147780 7.114220
12.314260 7.388680
12.554410 7.628840
NA NA

ID=Haematopotina

LM=30

6.750050 9.620210
6.420250 10.321020
6.873720 10.733270
6.997390 11.104280
6.956170 11.516530
8.481470 10.939390
12.438990 11.598980
13.345930 11.598980
17.550800 10.774490
18.540180 9.991230
17.056110 7.723900
16.190400 7.270430
15.407140 7.064310
14.458980 6.816960
13.510820 6.610840
11.325940 6.734510
11.078590 7.064310
10.130440 8.836950
10.790020 9.043070
10.872470 9.331640
10.212880 9.950010
12.851240 8.713280
10.872470 10.073680
10.336560 10.774490
10.913700 10.321020

13.469600 8.836950
13.510820 9.084300
14.871220 9.455310
15.077340 9.785110
NA NA
ID=Stenotabanus_sandyi

LM=30

2.852150 5.420710
2.412700 6.134820
2.879620 6.491870
3.236670 7.041180
3.209210 7.315840
4.719820 6.656670
8.592480 7.233440
9.608710 7.178510
12.932060 6.601730
13.701100 6.024960
12.492610 4.157290
11.778500 3.772770
10.927070 3.305850
9.800970 2.948800
9.031930 2.729070
6.917080 2.481880
6.669880 2.729070
5.900850 4.596740
6.560020 4.761530
6.697350 5.036190
6.202970 5.722830
8.647410 4.267150
6.999470 5.832700
6.560020 6.491870
7.026940 6.024960
9.388990 4.569270
9.443920 4.926330
10.872130 5.255920
11.064390 5.612970
10.707340 5.832700
ID=dubiosa

LM=30

1.826570 3.205540
1.500650 3.755540
1.948790 4.061100
2.132130 4.407390
2.071020 4.631470
3.272870 4.183320
6.206200 4.427760
6.817310 4.427760
9.608050 4.101840
10.300650 3.694430
9.343240 2.044430
8.630280 1.637020
7.835830 1.351840
7.041390 1.168500

6.491390 1.066650
5.024720 1.005540
4.861760 1.209250
4.250650 2.635170
4.800650 2.757390
4.841390 2.940730
4.474720 3.409250
6.389540 2.248130
5.146940 3.449990
4.882130 3.979620
5.269170 3.592580
6.776570 2.512950
6.817310 2.798130
7.998790 2.981470
8.182130 3.225910
8.059910 3.307390

ID=dixonii

LM=30

3.026340 6.471780
2.752710 7.046410
2.971610 7.347410
3.081070 7.675770
3.108430 7.922040
4.476610 7.621050
7.869680 8.359860
8.909500 8.469310
12.439390 8.332500
13.506570 7.757860
12.494120 5.842420
11.563760 5.322510
10.688130 4.994150
9.839860 4.802600
9.018950 4.611060
7.158230 4.474240
6.884600 4.720510
5.981600 6.061320
6.528870 6.307600
6.583600 6.444410
6.118420 6.936960
8.416950 6.006600
6.665690 7.073770
6.227870 7.566320
6.720420 7.292680
8.936860 6.280230
8.964220 6.471780
10.441860 6.882230
10.523950 7.183230
10.332400 7.292680

ID=Stenotabanus_taeniotes

Supplementary table V

K-value	P-cut	%_supported	%_compatible	%_supportedScaled	%_NcompatibleScaled
0	33	0,237	0,305	0,13	0,173
1	33	0,159	0,16	0,128	0,129
2	33	0,192	0,192	0,155	0,155
3	33	0,163	0,163	0,133	0,133
4	33	0,171	0,173	0,141	0,142
5	33	0,183	0,196	0,151	0,162
6	33	0,196	0,205	0,162	0,17
7	33	0,191	0,204	0,159	0,17
8	33	0,195	0,213	0,162	0,177
9	33	0,181	0,191	0,151	0,159
10	33	0,185	0,19	0,154	0,159
11	33	0,196	0,196	0,164	0,164
12	33	0,199	0,199	0,167	0,167
13	33	0,194	0,194	0,163	0,163
14	33	0,195	0,195	0,165	0,165
15	33	0,197	0,197	0,166	0,166
16	33	0,197	0,197	0,167	0,167
17	33	0,193	0,193	0,164	0,164
18	33	0,196	0,196	0,167	0,167
19	33	0,195	0,195	0,165	0,165
20	33	0,199	0,203	0,169	0,173
21	33	0,2	0,203	0,171	0,173
22	33	0,199	0,205	0,169	0,175
23	33	0,202	0,202	0,172	0,172
24	33	0,208	0,208	0,177	0,177
25	33	0,21	0,21	0,178	0,178
26	33	0,213	0,213	0,182	0,182
27	33	0,212	0,212	0,181	0,181
28	33	0,2	0,2	0,17	0,17
29	33	0,213	0,213	0,182	0,182
30	33	0,209	0,209	0,179	0,179
31	33	0,209	0,209	0,178	0,178
32	33	0,194	0,194	0,165	0,165
33	33	0,191	0,194	0,163	0,165
34	33	0,19	0,194	0,162	0,165
35	33	0,192	0,193	0,164	0,164
36	33	0,193	0,194	0,164	0,166
37	33	0,194	0,195	0,166	0,166
38	33	0,193	0,196	0,165	0,167
39	33	0,19	0,193	0,162	0,165
40	33	0,196	0,196	0,167	0,167
41	33	0,192	0,194	0,163	0,166
42	33	0,192	0,195	0,163	0,166
43	33	0,192	0,193	0,164	0,165
44	33	0,191	0,192	0,163	0,164
45	33	0,189	0,191	0,162	0,163
46	33	0,191	0,196	0,163	0,167
47	33	0,19	0,194	0,162	0,165
48	33	0,192	0,194	0,164	0,165
49	33	0,192	0,194	0,163	0,165
50	33	0,191	0,192	0,163	0,164

51	33	0,19	0,195	0,163	0,167
52	33	0,191	0,194	0,163	0,166
53	33	0,189	0,196	0,162	0,168
54	33	0,192	0,195	0,164	0,167
55	33	0,192	0,195	0,164	0,166
56	33	0,191	0,193	0,163	0,165
57	33	0,208	0,208	0,178	0,178
58	33	0,19	0,195	0,162	0,166
59	33	0,206	0,206	0,176	0,176
60	33	0,209	0,209	0,178	0,178
61	33	0,191	0,191	0,163	0,163
62	33	0,192	0,193	0,164	0,165
63	33	0,188	0,193	0,161	0,165
64	33	0,189	0,194	0,161	0,165
65	33	0,188	0,19	0,16	0,163
66	33	0,189	0,193	0,162	0,165
67	33	0,204	0,204	0,175	0,175
68	33	0,189	0,193	0,161	0,165
69	33	0,19	0,192	0,163	0,164
70	33	0,178	0,179	0,153	0,153

MaxAveagerDist	MiinAveagerDist
0,666	0,559
0,561	0,502
0,599	0,563
0,575	0,52
0,592	0,522
0,62	0,554
0,639	0,576
0,641	0,58
0,654	0,589
0,666	0,624
0,672	0,635
0,673	0,61
0,684	0,616
0,686	0,612
0,687	0,615
0,693	0,619
0,696	0,619
0,693	0,621
0,694	0,624
0,696	0,624
0,695	0,635
0,695	0,629
0,698	0,637
0,698	0,61
0,69	0,677
0,689	0,679
0,689	0,679
0,69	0,681
0,696	0,655
0,688	0,68
0,687	0,679
0,689	0,678
0,685	0,662
0,681	0,66
0,685	0,66
0,682	0,659
0,683	0,66
0,682	0,651
0,684	0,661
0,683	0,658
0,683	0,644
0,682	0,658
0,683	0,658
0,68	0,657
0,681	0,656
0,684	0,657
0,681	0,659
0,683	0,658
0,679	0,656
0,68	0,659
0,683	0,658
0,681	0,659
0,687	0,661
0,685	0,658

0,681	0,658
0,682	0,657
0,68	0,657
0,681	0,653
0,684	0,658
0,682	0,651
0,683	0,652
0,677	0,657
0,684	0,649
0,685	0,657
0,688	0,657
0,681	0,657
0,683	0,659
0,68	0,651
0,682	0,658
0,682	0,654
0,672	0,633