

Appendix 4. Records of *Cleistes rosea* and related taxa used in morphometric analyses. Same voucher indicates different individuals from the same collection/herbarium sample.

Taxa/N/Country	State/Department	Municipality/Locality	Voucher
<i>Cleistes abdita</i> (20)			
Brazil	Roraima	Caracaraí	<i>Barbosa 1184</i> (INPA)
Brazil	Roraima	Caracaraí	<i>Barbosa 1184</i> (UEC)
Brazil	Roraima	Caracaraí	<i>Barbosa 1224</i> (INPA)
Brazil	Roraima	Caracaraí	<i>Barbosa 1224</i> (UEC)
Brazil	Roraima	Caracaraí	<i>Barbosa 1423</i> (INPA)
Brazil	Roraima	Caracaraí	<i>Barbosa 1423</i> (INPA)
Brazil	Roraima	Caracaraí	<i>Barbosa 1423</i> (INPA)
Brazil	Roraima	Caracaraí	<i>Barbosa 1423</i> (UEC)
Brazil	Roraima	Caracaraí	<i>Cavalcanti 198</i> (INPA)
Guyana	Cuyuni-Mazaruni	Wayalayeng Village	<i>Clarke 12160</i> (US)
Guyana	Takutu-Essequibo	Gunn's Wai Wai Village	<i>Henkel 5251</i> (US)
Guyana	Takutu-Essequibo	Gunn's Wai Wai Village	<i>Henkel 5251</i> (US)
Venezuela	Amazonas	1 km E of Maroa	<i>Wurdack 43272</i> (NY)
Venezuela	Amazonas	Átures	<i>Carnevali 2661</i> (PORT) isotype
Venezuela	Amazonas	Átures	<i>Carnevali 2661</i> (VEN) holotype
Venezuela	Amazonas	Sabana Cumare	<i>Wurdack 43763</i> (NY)
Venezuela	Amazonas	Sabana Cumare	<i>Wurdack 43763</i> (NY)
Venezuela	Amazonas	Sabana de San Juan de Ucata	<i>Romero 2410</i> (AMES)
Venezuela	Bolívar	2 km S of Rio Chibau	<i>Maguire 53520</i> (AMES)
Venezuela	Amazonas	Átures	<i>Carnevali 2662</i> (VEN)
<i>C. ayangannensis</i> (17)			
Brazil	Amazonas	Santa Isabel do Rio Negro	<i>Forzza 7145</i> (RB)
Brazil	Amazonas	Santa Isabel do Rio Negro	<i>Mello-Silva 4244</i> (RB)
Guyana	Cuyuni-Mazaruni	Mount Ayanganna	<i>Pipoly 11174</i> (COL) holotype
Guyana	Cuyuni-Mazaruni	Mount Ayanganna	<i>Pipoly 11174</i> (GH) isotype
Guyana	Cuyuni-Mazaruni	Mount Ayanganna	<i>Pipoly 11174</i> (NY) isotype

Guyana	Cuyuni-Mazaruni	Pakaraima Mountains	<i>Henkel 63 (US)</i>
Guyana	Cuyuni-Mazaruni	Paruima	<i>Clarke 5729 (NY 04027155)</i>
Guyana	Cuyuni-Mazaruni	Paruima	<i>Tillett 44944 (NY 04027158)</i>
Guyana	Potaro	River Region	<i>Boom 9038 (NY)</i>
Guyana	Potaro	River Region	<i>Boom 9038 (NY)</i>
Guyana	Potaro-Siparuni	Mount Wokomung	<i>Clarke 10730 (AMES)</i>
Venezuela	Amazonas	Cumbre del Aprada-tepui	<i>Maguire 37232 (NY)</i>
Venezuela	Bolívar	Chimantá Massif	<i>Steryermark 74849 (AMES)</i>
Venezuela	Bolívar	Chimantá Massif	<i>Steyermark 74849 (NY 04027162)</i>
Venezuela	Bolívar	Ilu-Tepui	<i>Maguire 33460 (AMES)</i>
Venezuela	Bolívar	Ilu-Tepui	<i>Maguire 33460 (AMES)</i>
Venezuela	Bolívar	Piar	<i>Huber 9573 (NY)</i>
<i>C. castaneoides var. castaneoides (27)</i>			
Brazil	Bahia	Lençóis	<i>Carvalho 1071 (K)</i>
Brazil	Bahia	Maraú	<i>Belem 3542 (NY)</i>
Brazil	Bahia	Rio de Contas	<i>Harley 15613 (CEPEC)</i>
Brazil	Distrito Federal	Brasília	<i>Bianchetti 1480 (CEN)</i>
Brazil	Distrito Federal	Brasília	<i>Bianchetti 819 (CEN)</i>
Brazil	Distrito Federal	Brasília	<i>Bianchetti 819 (CEN)</i>
Brazil	Goiás	Cavalcante	<i>Batista 829 (CEN)</i>
Brazil	Goiás	Cavalcante	<i>Batista 829 (CEN)</i>
Brazil	Goiás	Cavalcante	<i>Batista 829 (CEN)</i>
Brazil	Goiás	Minaçu	<i>Walter 711 (CEN)</i>
Brazil	Goiás	Pirenópolis	<i>Chacon 1719 (HEPH)</i>
Brazil	Goiás	São Gabriel de Goiás	<i>Batista 3472 (BHCB)</i>
Brazil	Distrito Federal	Brasília	<i>Batista s.n. (CEN 25379)</i>
Brazil	Pará	Vigia	<i>Andrade-Lima53-1262 (K)</i>
Brazil	Pará	Vigia	<i>Pabst 8962 (K)</i>
Brazil	Minas Gerais	Santana do Riacho	<i>Batista 1780 (BHCB)</i>
Brazil	Minas Gerais	Santana do Riacho	<i>Batista 1780 (BHCB)</i>

Brazil	Paraná	Palmeira	<i>Silva 9947</i> (MBM)
Brazil	São Paulo	São Paulo	<i>Hoehne s.n.</i> (SP 28697) lectotype
Brazil	São Paulo	São Paulo	<i>Hoehne s.n.</i> (SP 28697) lectotype
Brazil	São Paulo	São Paulo	<i>Hoehne s.n.</i> (AMES 02158301) isoelectotype
Brazil	São Paulo	São Paulo	<i>Hoehne s.n.</i> (F V0435954) isoelectotype
Brazil	São Paulo	São Paulo	<i>Hoehne s.n.</i> (NY 00414849) isoelectotype
Brazil	São Paulo	São Paulo	<i>Hoehne s.n.</i> (NY 00414849) isoelectotype
Brazil	São Paulo	São Paulo	<i>Luederwaldt s.n.</i> (SP 28995) syntype
Brazil	São Paulo	São Paulo	<i>Luederwaldt s.n.</i> (SP 28995) syntype
Colombia	Guaviare	San José de Guaviare	<i>Castro 189</i> (COL)
<i>C. castaneoides</i> var. <i>augusta</i> (26)			
Brazil	Bahia	Ituberá	<i>Batista 3426</i> (BHCB)
Brazil	Goiás	Águas Lindas de Goiás	<i>Miranda 68</i> (CEN)
Brazil	Goiás	Pirenópolis	<i>Batista 175</i> (CEN)
Brazil	Goiás	Pirenópolis	<i>Batista 175</i> (CEN)
Brazil	Goiás	Pirenópolis	<i>Batista 175</i> (CEN)
Brazil	Goiás	Pirenópolis	<i>Batista 238</i> (CEN)
Brazil	Goiás	Pirenópolis	<i>Batista 238</i> (CEN)
Brazil	Maranhão	Carolina	<i>Oliveira 264</i> (CEN)
Brazil	Mato Grosso	1.5 km E.S.E. Base Camp.	<i>Philcox 3503</i> (K)
Brazil	Mato Grosso	Cuiabá	<i>Hatschbach 37342</i> (MBM)
Brazil	Mato Grosso	Salto Augusto	<i>Hoehne 5353</i> (R) lectotype
Brazil	Minas Gerais	Diamantina	<i>Menezes 1</i> (ESA) <i>C. angeliana</i> holotype
Brazil	Minas Gerais	Santana do Riacho	<i>Martins 15</i> (BHCB)
Brazil	Minas Gerais	Santana do Riacho	<i>Martins 15</i> (BHCB)
Brazil	Minas Gerais	São Gonçalo do Rio Preto	<i>Viana 1397</i> (BHCB)
Brazil	Minas Gerais	Serro	<i>Batista 1959</i> (BHCB)
Brazil	Minas Gerais	Serro	<i>Batista 1959</i> (BHCB)
Brazil	Minas Gerais	Serro	<i>Mota 2615</i> (BHCB)
Brazil	Pará	Serra do Cachimbo	<i>Pires 6084</i> (NY)

Brazil	Pará	Serra do Cachimbo	<i>Pires 6084</i> (NY)
Brazil	Pará	Serra do Cachimbo	<i>Pires 6084</i> (NY)
Colombia	Amazonas	Aeropuerto de Araracuara	<i>Idrobo 8982</i> (COL)
Colombia	Guainía	Inírida	<i>Cardenas 14926</i> (COAH)
Colombia	Guainía	Inírida	<i>Cardenas 16780</i> (COAH)
Peru	San Martín	Rioja	<i>Woytkowski 6228</i> (MO)
Peru	San Martín	Rioja	<i>Woytkowski 6228</i> (MO)
<i>C. rosea</i> var. <i>rosea</i> (53)			
Brazil	Pará	Bela Vista	<i>Ducke 18728</i> (RB)
Brazil	Roraima	Boa Vista	<i>Silva 431</i> (INPA)
Brazil	Roraima	Boa Vista	<i>Silva 431</i> (NY)
Brazil	Roraima	Boa Vista	<i>Silva 431</i> (NY)
Colombia	Amazonas	Corregimiento	<i>Jaimes 1474</i> (COAH)
Colombia	Antioquia	Guatapé	<i>Escobar 6826</i> (HUA)
Colombia	Antioquia	San Rafael	<i>Carmona 1111</i> (HUA)
Colombia	Antioquia	Vereda Barro Blanco	<i>Bedoya 200</i> (HUA)
Colombia	Caquetá	Florencia	<i>Castaño 3184</i> (COAH)
Colombia	Cundinamarca	Fusagasugá	<i>Garcia-Barriga 21236</i> (COL)
Colombia	Cundinamarca	San Francisco	<i>Garcia-Barriga 10967</i> (COL)
Colombia	Cundinamarca	Sasaima	<i>Garcia-Barriga 17269</i> (NY)
Colombia	Cundinamarca	Sasaima	<i>Garcia-Barriga 17269</i> (NY)
Colombia	Cauca	El Tambo	<i>Sneidern 104</i> (S)
Colombia	Cauca	El Tambo	<i>Sneidern 104</i> (S)
Colombia	Huila		<i>Renz 3847</i> (RENZ)
Colombia	Valle del Cauca	Pavas	<i>Pennel 5495</i> (AMES)
Colombia	Valle del Cauca	Cali	<i>Aboucher s.n.</i> (COL 119652) <i>C. aboucharii</i> holotype
Colombia	Vaupés	Río Papurí	<i>Schultes 19485</i> (AMES)
Ecuador	Napo-Pastaza	Cashurco	<i>Asplund 19351</i> (AMES)
Guyana	Cuyuni-Mazaruni	Kamakusa Mountain	<i>Wurdack 5897</i> (AMES)
Guyana	Cuyuni-Mazaruni	Kamakusa Mountain	<i>Wurdack 5897</i> (AMES)

Guyana	Cuyuni-Mazaruni	Merume Mountains	<i>Maguire 43840 (F)</i>
Guyana	Cuyuni-Mazaruni	Merume Mountains	<i>Maguire 43840 (NY)</i>
Guyana	Cuyuni-Mazaruni	Pakaraima Mountains	<i>Hoffman 1946 (GH)</i>
Guyana	Cuyuni-Mazaruni	Pakaraima Mountains	<i>Hoffman 1946 (NY)</i>
Guyana	Demerara-Mahaica	St. Cuthbert's Mission	<i>Mori 8033 (NY)</i>
Guyana	Mazaruni-Potaro	Pakaraima Mountains	<i>Pipoly 7890 (NY)</i>
Guyana	Potaro-Siparuni	Kopinang Savanna	<i>Maguire 46091A (NY)</i>
Guyana	Potaro-Siparuni	Kopinang Savanna	<i>Maguire 46091A (NY)</i>
Guyana	Potaro-Siparuni	Kopinang Savanna	<i>Maguire 46091A (NY)</i>
Guyana	Potaro-Siparuni	Kopinang Savanna	<i>Maguire 46091A (NY)</i>
Guyana	Potaro-Siparuni	Kopinang-Orinduik	<i>Boom 9289 (NY)</i>
Guyana	Potaro-Siparuni	Mount Ayanganna	<i>Maguire 40623 (AMES)</i>
Guyana	Potaro-Siparuni	Mount Ayanganna	<i>Maguire 40623 (NY)</i>
Guyana	Potaro-Siparuni	Mount Ayanganna	<i>Maguire 40623 (NY)</i>
Guyana	Potaro-Siparuni	Pakaraima Mountains	<i>Henkel 1592 (NY)</i>
Guyana	Potaro-Siparuni	Pakaraima Mountains	<i>Henkel 1592 (U)</i>
Guyana	Potaro-Siparuni	Pakaraima Mountains	<i>Henkel 5536 (NY)</i>
Guyana	Potaro-Siparuni	Pakaraima Mountains	<i>Henkel 5536 (NY)</i>
Guyana	Potaro-Siparuni	Pakaraima Mountains	<i>Maguire 46030A (NY)</i>
Guyana	Upper Demerara-Berbice	Lower Kajarau Creek	<i>Henkel 2152 (COL)</i>
Guyana	Upper Demerara-Berbice	Lower Kajarau Creek	<i>Henkel 2152 (GH)</i>
Guyana	Upper Demerara-Berbice	Lower Kajarau Creek	<i>Henkel 2152 (NY)</i>
Panama	Panamá	Cerro Azul	<i>Dwyer 2059 (MO)</i>
Trinidad and Tobago	Trinidad	Valencia-Sangre Grande	<i>Freeman 10782 (NY)</i>
Venezuela	Aragua	Tovar	<i>Fendler 1551 (AMES)</i>
Venezuela	Bolívar	Km 118 S of El Dorado	<i>Gentry 10577 (MO)</i>
Venezuela	Tachira		<i>Renz 7108 (RENZ)</i>
Venezuela	Tachira		<i>Renz 7226 (RENZ)</i>
Venezuela	Tachira		<i>Renz 7226 (RENZ)</i>

Venezuela	Táchira	Uribante	<i>Dorr 7116</i> (NY)
Venezuela	Trujillo		<i>Renz 4275</i> (RENZ)
<i>C. rosea</i> var. <i>buenaventurae</i> (24)			
Colombia	Chocó	La Oveja-Quibdó	<i>Archer 1751</i> (US)
Colombia	Chocó	La Oveja-Quibdó	<i>Archer 1751</i> (US)
Colombia	Chocó	Tutunendo	<i>Archer 2142</i> (US)
Colombia	Valle del Cauca	Buenaventura	<i>Alston 8620</i> (F) <i>C. buenaventurae</i> isotype
Colombia	Valle del Cauca	Buenaventura	<i>Alston 8620</i> (P) <i>C. buenaventurae</i> isotype
Colombia	Valle del Cauca	Buenaventura	<i>Alston 8620</i> (P) <i>C. buenaventurae</i> isotype
Colombia	Valle del Cauca	Buenaventura	<i>Alston 8620</i> (U) <i>C. buenaventurae</i> holotype
Colombia	Valle del Cauca	Buenaventura	<i>Asplund 4994</i> (MO)
Colombia	Valle del Cauca	Buenaventura	<i>Haught 5338</i> (COL)
Colombia	Valle del Cauca	Buenaventura	<i>Haught 5338</i> (US)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (AMES)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (AMES)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (COL)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (COL)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (COL)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (COL)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (F)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (US)
Colombia	Valle del Cauca	Buenaventura	<i>Killip 34913</i> (US)
Colombia	Valle del Cauca	Buenaventura	<i>Gentry 47989</i> (MO)
Colombia	Valle del Cauca	Buenaventura	<i>Raugh-Hink B16</i> (AMES) <i>C. romeroana</i> holotype
Colombia	Valle del Cauca	Córdoba	<i>Killip 33375</i> (AMES)
Colombia	Valle del Cauca	Córdoba	<i>Killip 33375</i> (COL)
Colombia	Valle del Cauca	Córdoba	<i>Killip 33375</i> (US)
<i>C. rosea</i> var. <i>guianensis</i> (20)			
French Guiana	Sinnamary	Route de Petit Saut	<i>Sambin 1254</i> (CAY) paratype
French Guiana	Sinnamary	Route de Petit Saut	<i>Sambin 1256</i> (CAY) holotype

French Guiana		Chemin de Saut Pararé	<i>Smith 4157 (CAY)</i>
French Guiana		Haut Oyapock	<i>Sastre 4723 (P)</i>
French Guiana		Kaw	<i>Pignal 1968 (P)</i>
French Guiana		Kourou, Matiti	<i>Sambin 1052 (HJBG)</i>
French Guiana		Maripasoula	<i>Poncy 2853 (P)</i>
French Guiana		Monts Bakra	<i>Cremers 13039 (NY)</i>
French Guiana		Monts Bakra	<i>Cremers 13039 (P)</i>
French Guiana		Cayenne Regina Highway	<i>Croat 74326 (MO)</i>
French Guiana		Piste de St. Elie, km 16	<i>Prevost 1280 (P)</i>
French Guiana		Route Cayenne - Régina	<i>Geniez 93 (CAY)</i>
French Guiana		Savane roche Virginie	<i>Sambin 1032 (HJBG)</i>
French Guiana		Savane-roche du Quatorze Juillet	<i>Cremers 12160 (CAY)</i>
French Guiana		Savannas of Gallion	<i>Mori 25205 (NY)</i>
French Guiana		crique Tibourou, bassin de l'Orapu	<i>Billiet 5722 (CAY)</i>
French Guiana		crique Tibourou, bassin de l'Orapu	<i>Billiet 5722 (CAY)</i>
French Guiana			<i>Gradstein s.n. (RENZ 14011)</i>
French Guiana			<i>Gradstein s.n. (RENZ 14011)</i>
French Guiana		station des Nouragues	<i>Ulitzka 65 (CAY)</i>
<i>C. tamboana</i> (5)			
Ecuador	Esmeraldas	Lita to Alto Tambo	<i>Hirtz 3458 (K)</i>
Ecuador	Esmeraldas	San Lorenzo	<i>Rubio 711 (MO)</i>
Ecuador	Esmeraldas	San Lorenzo	<i>Rubio 711 (MO)</i>
Ecuador	Esmeraldas	San Lorenzo	<i>Carnevali 3416 (MO 029059)</i>
Ecuador	Esmeraldas	San Lorenzo	<i>Carnevali 3416 (MO 029059)</i>
