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

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

Guyana	Cuyuni-Mazaruni	Pakaraima Mountains	Henkel 63 (US)
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Guyana Cuyuni-Mazaruni Paruima *Clarke 5729* (NY 04027155) Guyana Cuyuni-Mazaruni Paruima *Tillett 44944* (NY 04027158)

Guyana **River Region** Boom 9038 (NY) Potaro Boom 9038 (NY) Guyana Potaro **River Region** Guyana Potaro-Siparuni Mount Wokomung *Clarke 10730* (AMES) Venezuela Amazonas Cumbre del Aprada-tepui *Maguire 37232* (NY)

Venezuela Bolívar Chimantá Massif Steryermark 74849 (AMES)

Venezuela Bolívar Chimantá Massif Steyermark 74849 (NY 04027162)

VenezuelaBolívarIlu-TepuiMaguire 33460 (AMES)VenezuelaBolívarIlu-TepuiMaguire 33460 (AMES)

Venezuela Bolívar Piar Huber 9573 (NY)

C. castaneoides var. castaneoides (27)

Brazil Bahia Lençóis *Carvalho 1071* (K)
Brazil Bahia Maraú *Belem 3542* (NY)

Bahia Rio de Contas Harley 15613 (CEPEC) Brazil Brasília Bianchetti 1480 (CEN) Brazil Distrito Federal Bianchetti 819 (CEN) Brazil Distrito Federal Brasília Brazil Distrito Federal Brasília Bianchetti 819 (CEN) Brazil Goiás Cavalcante Batista 829 (CEN) Goiás Batista 829 (CEN) Brazil Cavalcante Batista 829 (CEN) Brazil Goiás Cavalcante Goiás Brazil Minacu Walter 711 (CEN) Goiás Pirenópolis **Brazil** Chacon 1719 (HEPH) Goiás São Gabriel de Goiás Batista 3472 (BHCB) Brazil Brasília Brazil Batista s.n. (CEN 25379) Distrito Federal Brazil Pará Vigia Andrade-Lima53-1262 (K)

Brazil Pará Vigia Pabst 8962 (K)

Brazil Minas Gerais Santana do Riacho Batista 1780 (BHCB)
Brazil Minas Gerais Santana do Riacho Batista 1780 (BHCB)

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

Batista 1959 (BHCB)

Batista 1959 (BHCB)

Mota 2615 (BHCB)

Pires 6084 (NY)

Serro

Serro

Serro

Serra do Cachimbo

Minas Gerais

Minas Gerais

Minas Gerais

Pará

Brazil

Brazil Brazil

Brazil

Brazil	Pará	Serra do Cachimbo	Pires 6084 (NY)
Brazil	Pará	Serra do Cachimbo	Pires 6084 (NY)
Colombia	Amazonas	Aeropuerto de Araracuara	Idrobo 8982 (COL)

Cardenas 14926 (COAH) Colombia Guainía Inírida Inírida Cardenas 16780 (COAH) Colombia Guainía Peru San Martín Rioja Woytkowski 6228 (MO) San Martín Rioja Woytkowski 6228 (MO) Peru

C. rosea var. rosea (53)

Ducke 18728 (RB) Brazil Bela Vista Pará **Brazil** Roraima Boa Vista *Silva 431* (INPA) **Brazil** Roraima Boa Vista *Silva 431* (NY) *Silva 431* (NY) **Brazil** Roraima Boa Vista

Colombia Corregimiento Jaimes 1474 (COAH) Amazonas Colombia Antioquia Guatapé Escobar 6826 (HUA) Colombia Antioquia San Rafael Carmona 1111 (HUA) Colombia Vereda Barro Blanco Antioquia Bedoya 200 (HUA) Colombia Florencia Castaño 3184 (COAH) Caquetá Colombia Fusagasugá Cundinamarca

ColombiaCundinamarcaFusagasugáGarcia-Barriga 21236 (COL)ColombiaCundinamarcaSan FranciscoGarcia-Barriga 10967 (COL)ColombiaCundinamarcaSasaimaGarcia-Barriga 17269 (NY)ColombiaCundinamarcaSasaimaGarcia-Barriga 17269 (NY)

Colombia Cauca El Tambo Sneidern 104 (S)
Colombia Cauca El Tambo Sneidern 104 (S)
Colombia Huila Renz 3847 (RENZ)
Colombia Valle del Cauca Pavas Pennel 5495 (AMES)

Colombia Valle del Cauca Cali Aboucher s.n. (COL 119652) C. aboucharii holotype

Colombia Schultes 19485 (AMES) Vaupés Río Papurí Napo-Pastaza Cashurco **Asplund 19351 (AMES)** Ecuador Cuyuni-Mazaruni Kamakusa Mountain Wurdack 5897 (AMES) Guyana Cuyuni-Mazaruni Wurdack 5897 (AMES) Guyana Kamakusa Mountain

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

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

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