Papéis Avulsos de Zoologia
Museu de Zoologia da Universidade de São Paulo

ARTICLE

An illustrated catalog of Disteniidae (Coleoptera: Chrysomeloidea) type specimens deposited at the Museu de Zoologia da Universidade de São Paulo

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Abstract. The type specimens of the family Disteniidae Thomson, 1861 (Coleoptera) housed at the Museu de Zoologia, Universidade de São Paulo (MZSP) are cataloged and illustrated. Photos of dorsal and ventral habitus, labels, and complete label data of all the specimens are provided. There are 147 specimens belonging to 70 names: 33 primary types, 31 holotypes, and two lectotypes; and 114 secondary types, 52 paratypes, and two paralectotypes. *Elytrimitatrix (Grossifemora)* Santos-Silva & Hovore, 2007 is the genus with the greatest number of species with type material, 21 species, followed by *Cometes* Lepeletier & Audinet-Serville, 1828 and *Novantinoe* Santos-Silva & Hovore, 2007 with 15 and 13 species, respectively.

Keywords. America; Cerambycoidea; Entomological collection; Neotropical Region.

INTRODUCTION

The family Disteniidae is currently composed of more than 410 species (Monné, 2023; Tavakilian & Chevillotte, 2023) and is distributed globally, predominantly in tropical and subtropical regions (Švácha & Lawrence, 2014). According to Švácha & Lawrence (2014), the family is divided into four tribes: Cyrtonopini, Disteniini, Dynamostini, and Heteropalpini.

Disteniidae, together with Cerambycidae, Oxypeltidae, and Vesperidae, are grouped into the so-called "Cerambycoidea" clade, a group which is part of the superfamily Chrysomeloidea and without valid taxonomic categorization (Švácha & Lawrence, 2014).

The Disteniidae collection of the Museu de Zoologia da Universidade de São Paulo (MZSP) includes about 700 specimens separated into 17 genera and 147 species. These specimens came from incorporation of other older collections such as Campos Seabra, Halik, Malkin and Melzer, among others. In the last century, this collection has grown especially by material collected by Erwin, Giesbert, Hovore, Lane, Lenko, Maller, O'Brien, Plaumann, Wappes, Zikán, and especially by Martins and Santos-Silva through identification and exchange.

MATERIAL AND METHODS

The material included in this paper belongs to Coleoptera collection of the MZSP, where the project was developed.

The photographs were taken with a Canon EOS Rebel T3i DSLR camera, Canon MP-E 65 mm f/2.8 1-5X macro lens, controlled by Zerene Stacker AutoMontage software.

Label data were transcribed verbatim and additional comments or explanations are placed in square brackets. A single vertical bar separates rows within each label and a double vertical bar separates individual labels.

The species are presented in alphabetical order according to the original combination of each name.

For each species only one specimen was illustrated, if the primary type (*i.e.,* holotype or lectotype) was in the collection, then this specimen was the illustrated. When more than one paratype is listed, the specimen illustrated was marked with the figure number.

Pap. Avulsos Zool., 2024; v.64: e202464012
https://doi.org/10.11606/1807-0205/2024.64.012
https://www.revistas.usp.br/paz
https://www.scielo.br/paz
Edited by: Simone Policena Rosa
Received: 14/01/2024
Accepted: 15/02/2024
Published: 01/03/2024

ISSN On-Line: 1807-0205
ISSN Printed: 0031-1049
ISNI: 0000-0004-0384-1825

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RESULTS

Abauba iani Santos-Silva & Tavakilian, 2009 (Fig. 1A-C)

Abauba iani Santos-Silva & Tavakilian, 2009a: 23, figs. 11, 16, 52; Santos-Silva & Martins, 2010: 135, figs. 212, 227; Lingafelter *et al.,* 2014: 78, figs. 84s-t; Monné, 2023: 226.

Paratypes (3): ♀ "PARATYPE // ECUADOR, Suc. Pr. / Lumbaqui, 2 km E / 6-15 km N, 05 Sept 98 / F.T. Hovore, coll. // genus ? / n. sp. // *Abauba* / *iani* / Santos-Silva / & Tavakilian // MZSP 40948". (Fig. 1A-C) ♀ "PARÁTIPO // ECUADOR, Napo Pr. // 2-5 km NE Ahuano / 08/16 Sept 1998 / F.T. Hovore, coll. // new // *Abauba* / *iani* / Santos-Silva / & Tavakilian // MZSP 40949". ♂ "PARÁTIPO // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin, *et. al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 5, / Sta. 6 Project MAXUS Lot 915. // *Abauba* / *iani* / Santos-Silva / & Tavakilian // MZSP 40947".

Abauba mediorufovittata Santos-Silva & Tavakilian, 2009 (Fig. 1D-F)

Abauba mediorufovittata Santos-Silva & Tavakilian, 2009a: 20, figs. 10, 27, 39, 46, 51; Santos-Silva & Martins, 2010: 138, figs. 203, 225; Wappes & Arias, 2016: 4; Bezark, 2018: 41, fig. 3; Monné, 2023: 226.

Paratypes (3): ♂ "PARÁTIPO // R.F. Morris / collection // BOLIVIA: Santa Cruz / Buena Vista vic. / Flora & Fauna Hotel / 22-26/X/02 /, Morris // Wappes // *Abauba* / *mediorufovittata* / Santos-Silva / & Tavakilian // MZSP 40945". (Fig. 1D-F) ♀ "PARÁTIPO // BOLIVIA: Santa Cruz / 3.7 km SSE Buena Vista / Hotel Flora & Fauna / 430 m., 5-15-XI-2001 // M.C. Thomas, B.K. / Dozier, blacklight / trap, tropical / transition forest // *Abauba* / *mediorufovittata* / Santos-Silva / & Tavakilian // MZSP 40946". ♀ "PARÁTIPO // BRAZIL: Rondonia, / 62 km SW. Arique- / mês, Fzda. Rancho / Grande, X-16-1993 // Collectors: / C.W. & L.B. O'Brien // *Abauba* / *mediorufovittata* / Santos-Silva / & Tavakilian // MZSP 40944".

Abauba napoensis Santos-Silva & Tavakilian, 2009 (Fig. 1G-I)

Abauba napoensis Santos-Silva & Tavakilian, 2009a: 21, fig. 53; Santos-Silva & Martins, 2010: 136, figs. 226; Lingafelter *et al.,* 2014: 103, figs. 114k, l; Monné, 2023: 226.

Paratype: ♂ "PARÁTIPO // ECUADOR: NAPO, Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 8 Oct. 1995 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* collectors // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 10, / Sta. 6 Project MAXUS Lot 1266 // *Abauba* / *napoensis* / Santos-Silva / & Tavakilian // MZSP 60588".

America larrei Santos-Silva & Tavakilian, 2009 (Fig. 2A-C)

America larrei Santos-Silva & Tavakilian, 2009b: 43, figs. 61, 64; Santos-Silva & Martins, 2010: 167, fig. 247; Morvan & Roguet, 2013: 39, fig. 78; Botero & Santos-Silva, 2020a: 152; Monné, 2023: 229.

Paratype: ♂ "PARÁTIPO // Mgne. Tortue PK 36 / 13 avril 2001 / D Faure // *Paracometes* sp. / Disteniini // *America* / *larrei* / Santos-Silva & / Tavakilian // MZSP 60542".

America spinosa Botero & Santos-Silva, 2020 (Fig. 2D-F)

America spinosa Botero & Santos-Silva, 2020a: 148; Monné, 2023: 231.

Holotype: ♂ "HOLOTYPE / *America spinosa* / Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 6 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 10, / Sta. 8 Project MAXUS Lot 887 // MZSP 60548".

Paratypes (4): ♀ "PARATYPE / *America spinosa* / Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 2 Oct. 1996 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* collectors // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 9 Project MAXUS Lot 1719 // MZSP 60549". ♂ "PARATYPE / *America spinosa* / Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 10 Feb. 1996 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 10, / Sta. 10 Project MAXUS Lot 1500 // MZSP 60550". ♀ "PARATYPE / *America spinosa* / Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 7 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 8, / Sta. 10 Project MAXUS Lot 909 // MZSP 60551". ♂ "PARATYPE / *America spinosa* / Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans.

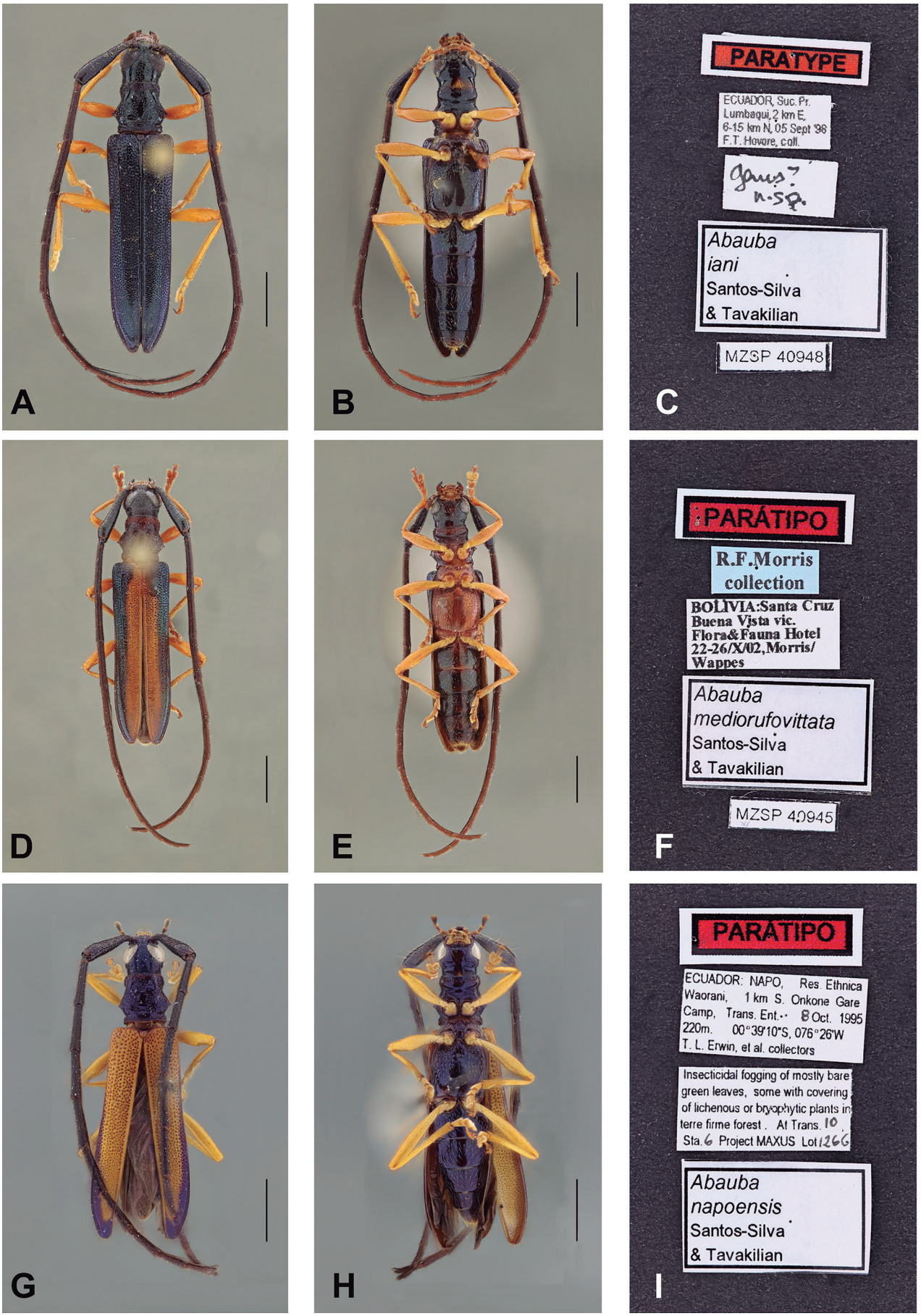

Figure 1. Disteniidae type specimens. (A-C) *Abauba iani* Santos-Silva & Tavakilian, 2009, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Abauba mediorufovittata* Santos-Silva & Tavakilian, 2009, male paratype (D) Dorsal view (E) Ventral view (F) Original labels (G-I) *Abauba napoensis* Santos-Silva & Tavakilian, 2009, male paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 2 mm.

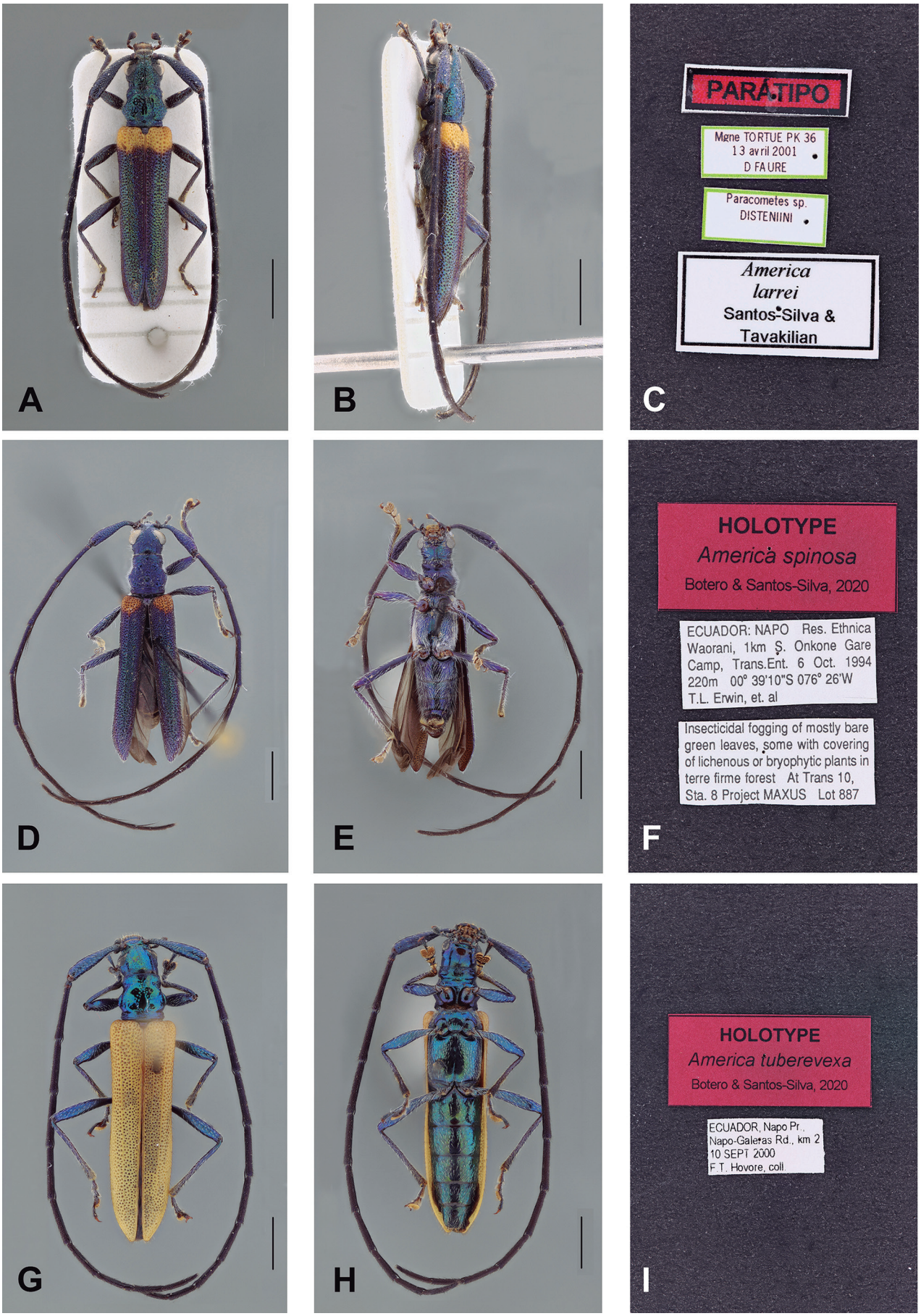

Figure 2. Disteniidae type specimens. (A-C) *America larrei* Santos-Silva & Tavakilian, 2009, male paratype (A) Dorsal view (B) Lateral view (C) Original labels. (D-F) *America spinosa* Botero & Santos-Silva, 2020, male holotype (D) Dorsal view (E) Ventral view (F) Original labels (G-I) *America tuberevexa* Botero & Santos-Silva, 2020, female holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 2 mm.

Ent. 6 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 9, / Sta. 10 Project MAXUS Lot 879 // MZSP 60552".

America tuberevexa **Botero & Santos-Silva, 2020 (Fig. 2G-I)**

America tuberevexa Botero & Santos-Silva, 2020a: 152; Monné, 2023: 231.

Holotype: ♀ "HOLOTYPE / *America tuberevexa* / Botero & Santos-Silva, 2020 // ECUADOR Napo Pr. / Napo-Galeras Rd., km 2 / 10 Sept 2000 / F.T. Hovore, coll. // MZSP 60554".

Arietocometes terryi **Botero & Santos-Silva, 2021 (Fig. 3A-C)**

Arietocometes terryi Botero & Santos-Silva, 2021: 207; Monné, 2023: 232.

Holotype: ♀ "HOLOTYPE / *Arietocometes terryi* / des. Botero & Santos-Silva, 2020 // Ecuador, Napo, Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 4 Oct. 1996 / 220 m. 00°39′10″S, 076°26′W / T.L. Erwin *et al.* collectors // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest. At Trans. 10 / Sta. 10 Project MAXUS Lot 1760 // MZSP 60585".

Arietocometes virgatus **Botero & Santos-Silva, 2021 (Fig. 3D-F)**

Arietocometes virgatus Botero & Santos-Silva, 2021: 200; Monné, 2023: 233.

Holotype: ♀ "HOLOTYPE / *Arietocometes virgatus* / des. Botero & Santos-Silva, 2020 // Ecuador, Napo / Aliñhui, 06 / Dec 2005 F.T. / Hovore, coll // MZSP 60586".

Cometes birai **Hovore & Santos-Silva, 2007 (Fig. 3G-I)**

Cometes birai Hovore & Santos-Silva, 2007a: 122; Swift *et al.,* 2010: 67.
Paracometes birai; Santos-Silva & Tavakilian, 2009b: 27; Monné *et al.,* 2017: 87; Botero & Almeida, 2019: 53; Botero & Gutiérrez, 2020: 8, Monné, 2023: 256.

Holotype: ♀ "HOLOTYPE // *Cometes* / *eximius* / Bates // [front] Costa Rica / F Nevermann / 20 VIII [19]22 / [back] Hamburg farm / Reventazon / Ebene Limon // *Cometes* / *birai* / Hovore & / Santos-Silva // *Paracometes* / *birai* / (Hovore & / Santos-Silva, 2007) // MZSP 60580" Note: There are still two handwritten labels.

Current combination: *Paracometes birai.*

Cometes giesberti **Hovore & Santos-Silva, 2007 (Fig. 4A-C)**

Cometes giesberti Hovore & Santos-Silva, 2007b: 76.
Arietocometes giesberti; Santos-Silva & Tavakilian, 2009b: 29; Botero & Santos-Silva, 2021: 209; Monné, 2023: 232.

Paratype: ♀ "PARATYPE // Panama Bocas del Toro / 10 km NE Fortuna Dam / 3400' May 23-26 1984 / E. Giesbert coll. // *Cometes* / *birai* / Hovore & / Santos-Silva // *Arietocometes* / *giesberti* / (Hovore & / Santos-Silva, 2007) // MZSP 60581".

Current combination: *Arietocometes giesberti.*

Cometes hovorei **Santos-Silva, 2007 (Fig. 4D-F)**

Cometes hovorei Santos-Silva *in* Hovore & Santos-Silva, 2007b: 95, figs. 15, 22, 29.
America hovorei; Santos-Silva & Tavakilian, 2009b: 30, fig. 30; Santos-Silva & Martins, 2010: 152, fig. 234; Le Tirant & Santos-Silva, 2014b: 1; Botero & Santos-Silva, 2020a: 152; Monné, 2023: 229.

Paratype: ♀ "PARÁTIPO // Satipo / PERU / x.1940 / A. Maller // *Cometes* / *hovorei* / Hovore & / Santos-Silva // *America* / *hovorei* / (Santos-Silva, 2007) // MZSP 60541".

Current combination: *America hovorei.*

Cometes mariahelenae **Hovore & Santos-Silva, 2007 (Fig. 4G-I)**

Cometes mariahelenae Hovore & Santos-Silva, 2007b: 80, figs. 4, 19, 33, 34.
America mariahelenae; Santos-Silva & Tavakilian, 2009b: 30, fig. 31; Santos-Silva & Martins, 2010: 169, figs. 249, 251, 252; Botero & Santos-Silva, 2020a: 147; Monné, 2023: 229.

Paratypes (3): ♀ "PARÁTIPO // BRAZIL: Rondonia, / 62 km SW. Arique- / mes, Fzda. Rancho / Grande, X-8-1993 // UV & merc. vap. light / C.W. & L.B. O'Brien // *Cometes* / *mariahelenae* / Hovore & / Santos-Silva // *America* / *hovorei* / (Hovore & / Santos-Silva, 2007) // MZSP 60543". (Fig. 4G-I) ♀ "PARÁTIPO // BRAZIL: Rondonia, / 62 km SW. Arique- / mes, Fzda. Rancho / Grande, X-8-1993 // Collectors; / C.W. & L.B. O'Brien // *Cometes* / *mariahelenae* / Hovore & / Santos-Silva // MZSP 60544". ♀ "PARÁTIPO // BRAZIL, Rondônia, / Ariquemes, Rio Ji- / Parana, 25.x.1986 // 09°44′S – 61°52′W / J.A. Rarpel [?] / Arm. malaise // *Paracometes* / *laetificus* / (Bates) / M.H. Galileo det. 2000 // *Cometes* / *mariahelenae* / Hovore & /

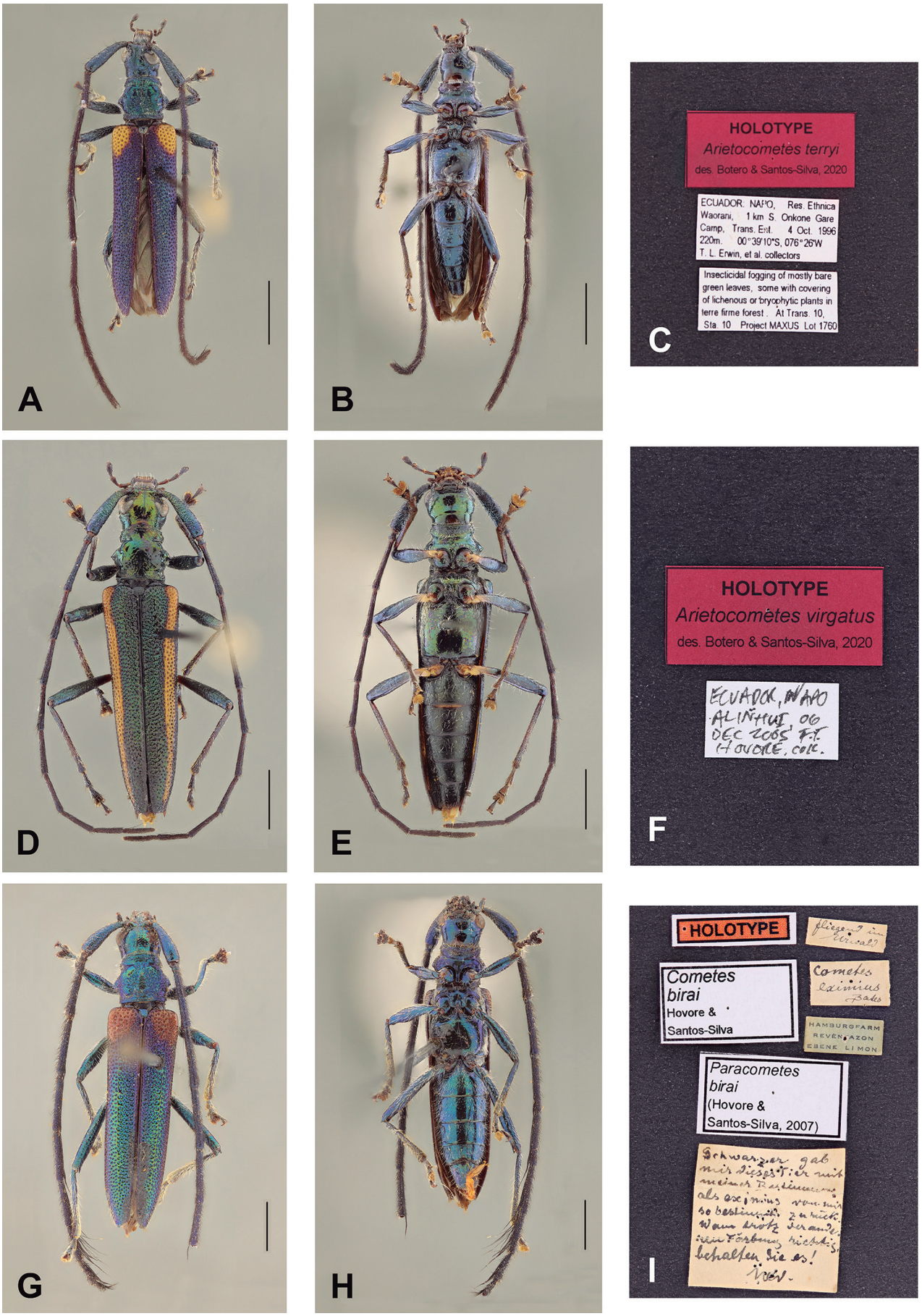

Figure 3. Disteniidae type specimens. (A-C) *Arietocometes terryi* Botero & Santos-Silva, 2021, female holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Arietocometes virgatus* Botero & Santos-Silva, 2021, female holotype (D) Dorsal view (E) Ventral view (F) Original labels (G-I) *Cometes birai* Hovore & Santos-Silva, 2007, female holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 2 mm.

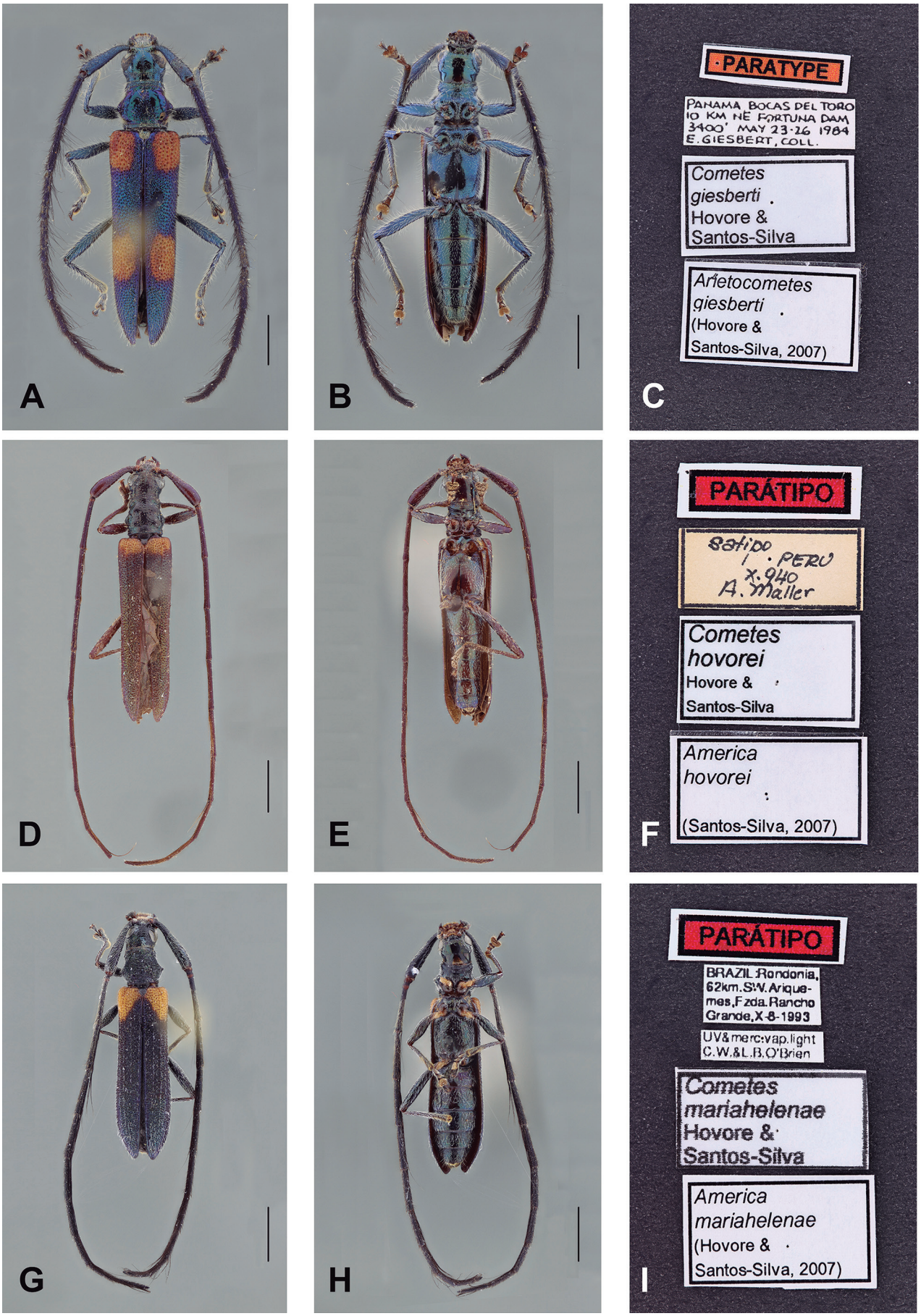

Figure 4. Disteniidae type specimens. (A-C) *Cometes giesberti* Hovore & Santos-Silva, 2007, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Cometes hovorei* Santos-Silva, 2007, female paratype (D) Dorsal view (E) Ventral view (F) Original labels (G-I) *Cometes mariahelenae* Hovore & Santos-Silva, 2007, female paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 2 mm.

Santos-Silva // *America* / *hovorei* / (Hovore & / Santos-Silva, 2007) // MZSP 60545".

Current combination: *America mariahelenae.*

Cometes mediovittipennis Santos-Silva & Tavakilian, 2009 (Fig. 5A-C)

Cometes mediovittipennis Santos-Silva & Tavakilian, 2009a: 9, fig. 55; Santos-Silva & Martins, 2010: 118, fig. 199; Monné *et al.,* 2017: 85; Monné, 2023: 234.

Holotype: ♀ "HOLOTYPE // Est. Esp. Santo / Sta. Theresa / 17.X.28 / O Conde // *Cometes* / *carinatus* / vill. // *Cometes* / *mediovittipennis* / Santos-Silva / & Tavakilian // MZSP 40941".

Cometes melzeri Santos-Silva & Martins, 2004 (Fig. 5D-F)

Cometes melzeri Santos-Silva & Martins, 2004: 148, figs. 4, 5; Hovore & Santos-Silva, 2007b: 82, figs. 28, 38, 49; Santos-Silva & Tavakilian, 2009a: 8; Santos-Silva & Martins, 2010: 119, fig. 200; Favretto *et al.,* 2013: 49; Monné *et al.,* 2017: 85; Monné, 2023: 234.

Holotype: ♂ "HOLÓTIPO // Cotypus / Cotypus // 4. [unintelligible]. 25 / Mar. // *Cometes* / *zikani* / Melz. // *Cometes melzeri* / Santos-Silva / & Martins // MZSP 40934".

Paratype: ♂ "PARÁTIPO // Brasilien / Nova Teutonia / 27°11′ B 52°23′ L / Fritz Plaumann / X.4.1976 / 300-500 m // *Cometes melzeri* / Santos-Silva / & Martins // MZSP 40935".

Cometes monnei Hovore & Santos-Silva, 2007 (Fig. 5G-I)

Cometes monnei Hovore & Santos-Silva, 2007b: 81, figs. 6, 25, 26, 36, 50, 51; Santos-Silva & Tavakilian, 2009a: 8; Santos-Silva & Martins, 2010: 116, figs. 180, 216; Monné, 2023: 234.

Paratype: ♀ "PARÁTIPO // LOCAL: Taguatinga – DF / DATA: 02-XI.83 / COL: J. Dalmacio // *Cometes* / *monnei* / Hovore & / Santos-Silva // MZSP 40942".

Cometes nearnsi Hovore & Santos-Silva, 2007 (Fig. 6A-C)

Cometes nearnsi Hovore & Santos-Silva, 2007b: 85; Swift *et al.,* 2010: 68.
Arietocometes nearnsi; Santos-Silva & Tavakilian, 2009b: 29; Botero & Santos-Silva, 2021: 211; Monné, 2023: 232.

Paratypes (3): ♀ "PARATYPE // Rio San Lorenzo, 1050 m / Tierras Morenas, Z.P. / Tenorio, Prov. Guanacaste / Costa Rica, M. Segura / 28 mar a 21 abr 1992 / L-N 287800, 427600 // Costa Rica / INBIO / CR1000 / 752645 // *Cometes* / *nearnsi* / Hovore & / Santos-Silva // *Arietocometes* / *nearnsi* / (Hovore & / Santos-Silva, 2007) // MZSP 60582". (Fig. 6A-C) ♀ "PARATYPE // Rio San Lorenzo, 1050 m / Tierras Morenas, Z.P. / Tenorio, Prov. Guanacaste / Costa Rica, M. Segura / 28 mar a 21 abr 1992 / L-N 287800, 427600 // Costa Rica / INBIO / CR1000 / 414893 // *Cometes* / *nearnsi* / Hovore & / Santos-Silva // *Arietocometes* / *nearnsi* / (Hovore & / Santos-Silva, 2007) // MZSP 60583" ♂ "PARATYPE // Costa Rica Prov. Guanacaste / Macizo Miravalles, Estación Cabro / Muco, 1100 m, 26 mar – 3 abr 2003 / J.D. Gutiérrez, Tp de luz / L N 299769 411243 # 73494 // INBIO0003708207 / INBIOCRI COSTA RICA // MZSP 60584".

Current combination: *Arietocometes nearnsi.*

Cometes solangeae Hovore & Santos-Silva, 2007 (Fig. 6D-F)

Cometes solangeae Hovore & Santos-Silva, 2007b: 89, figs. 10, 20, 35, 46.
America solangeae; Santos-Silva & Tavakilian, 2009b: 30, fig. 18; Santos-Silva & Martins, 2010: 154, fig. 235; Monné, 2023: 230.

Paratypes (2): ♀ "PARÁTIPO // COLECAO / CAMPOS SEABRA // Rio Branco / Terr. Acre Brasil / Novembro 1961 / F.M. Oliveira / *Paracometes* / buqueti / (Thomson) // *Cometes* / *solangeae* / Hovore & / Santos-Silva // *America* / *solangeae* / (Hovore & / Santos-Silva, 2007) // MZSP 60546". (Fig. 6D-F) ♀ "PARÁTIPO // BRAZIL / Benj. Constant / Rio Javary / alto amazonas / XI-1962 / Dirings // *Cometes* / *solangeae* / Hovore & / Santos-Silva // *America* / *solangeae* / (Hovore & / Santos-Silva, 2007) // MZSP 60547".

Current combination: *America solangeae.*

Cometes soledari Martins & Galileo, 2001 (Fig. 6G-I)

Cometes soledari Martins & Galileo, 2001: 16, fig. 1; Santos-Silva & Martins, 2004: 147; Wappes *et al.,* 2006: 42; Monné *et al.,* 2017: 86.
Cupecuara soledari; Santos-Silva & Tavakilian, 2009a: 16; Santos-Silva & Martins, 2010: 130, fig. 221; Lingafelter *et al.,* 2017: 3, fig. 1; Botero & Santos-Silva, 2020b: 648, figs. 39-42; Monné, 2023: 235.

Holotype: ♂ "HOLÓTIPO // BOLIVIA: Beni / Uyapi: Guanay / X-XI-1992 // *Cometes* / *soledari* sp. n. / Holótipo ♂ / U.R. Martins & / M.H. Galileo det. 2000 // *Cupecuara* / *soledari* / (Martins & / Galileo, 2001) // MZSP 60578".

Current combination: *Cupecuara soledari.*

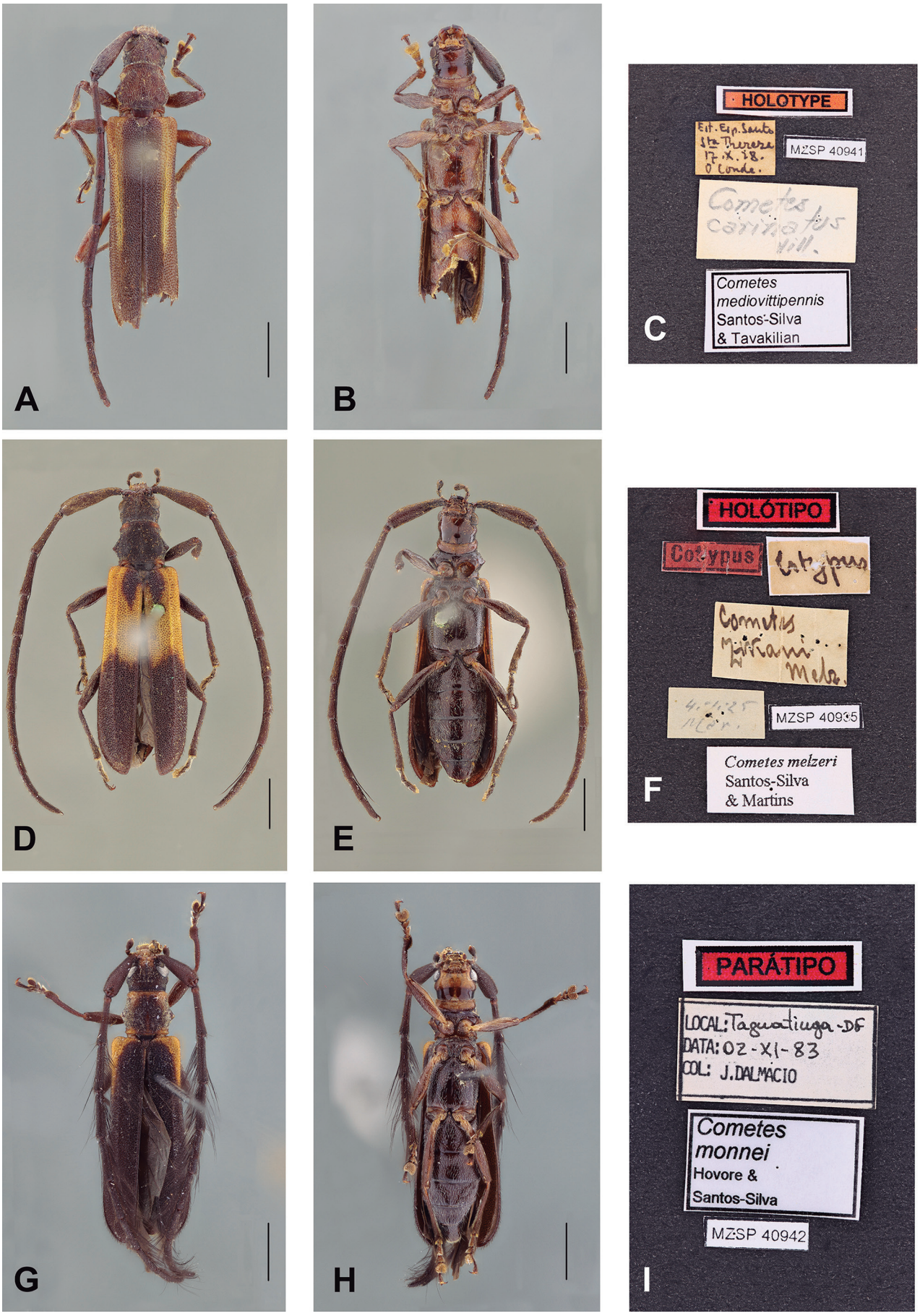

Figure 5. Disteniidae type specimens. (A-C) *Cometes mediovittipennis* Santos-Silva & Tavakilian, 2009, female holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Cometes melzeri* Santos-Silva & Martins, 2004, male holotype (D) Dorsal view (E) Ventral view (F) Original labels (G-I) *Cometes monnei* Hovore & Santos-Silva, 2007, female paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 2 mm.

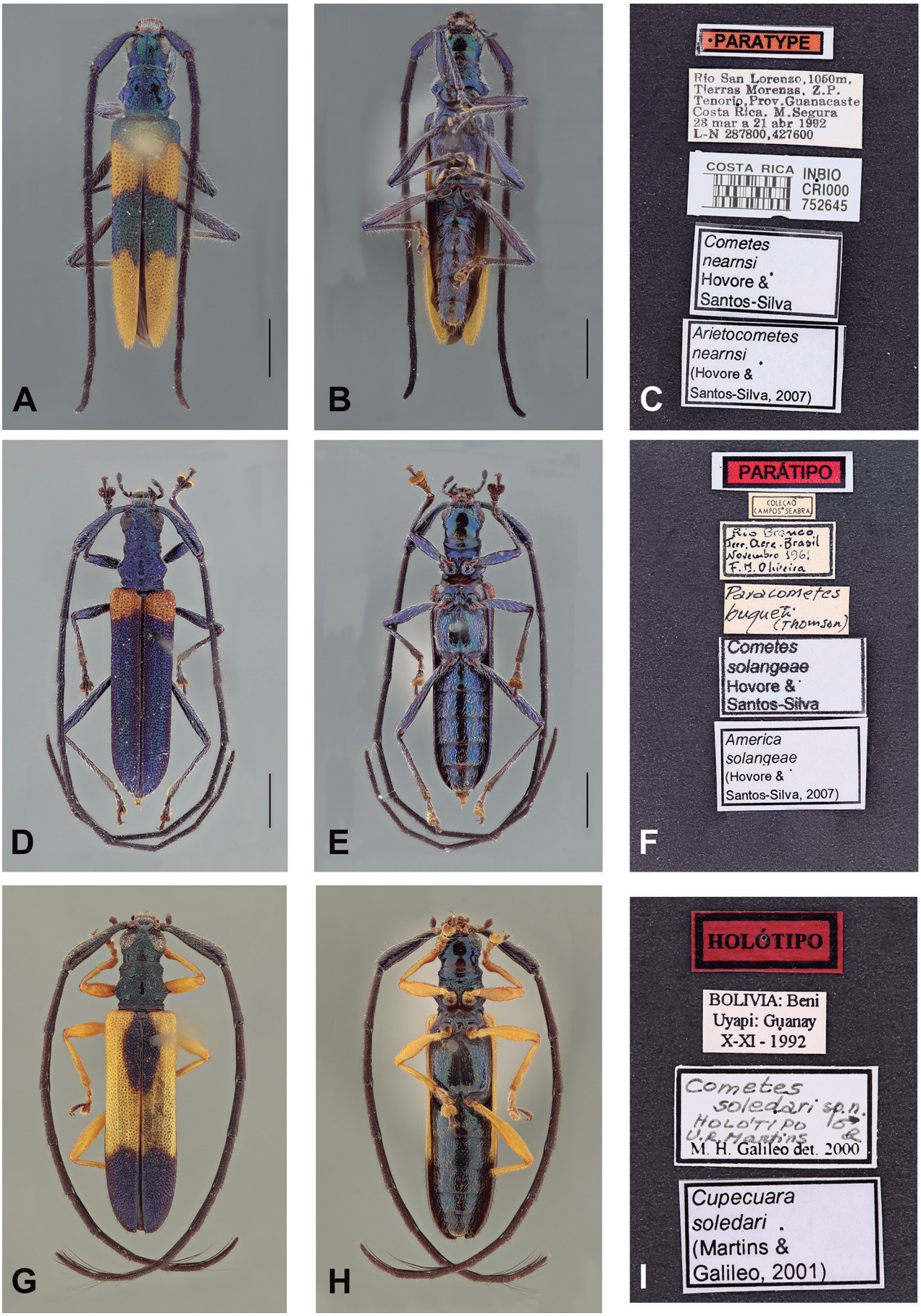

Figure 6. Disteniidae type specimens. (A-C) *Cometes nearnsi* Hovore & Santos-Silva, 2007, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Cometes solangeae* Hovore & Santos-Silva, 2007, female paratype (D) Dorsal view (E) Ventral view (F) Original labels (G-I) *Cometes soledari* Martins & Galileo, 2001, male holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 2 mm.

Cometes solisi Hovore & Santos-Silva, 2007 (Fig. 7A-C)

Cometes solisi Hovore & Santos-Silva, 2007b: 92, figs. 12, 39, 44; Hubweber, 2008: 255.
America solisi; Santos-Silva & Tavakilian, 2009b: 30; Swift *et al.,* 2010: 68; Monné, 2023: 230.

Paratype: ♀ "PARATYPE // COSTA RICA Prov. Puntarenas R.V. / S. Golfito, estación Naranjales, 50 – / 200 m, 27 abr 2004. W. Porras, Libre, / L_S_289900_553450 # 76843 // INB0003837565 / INBIOCRI COSTA RICA // *Cometes* / *solisi* / Hovore & / Santos-Silva // *America* / *solisi* / (Hovore & / Santos-Silva, 2007) // MZSP 60553".

Current combination: *America solisi.*

Cometes thomasi Hovore & Santos-Silva, 2007 (Fig. 7D-F)

Cometes thomasi Hovore & Santos-Silva, 2007b: 293, figs. 13, 21, 30, 31.
America thomasi; Santos-Silva & Tavakilian, 2009b: 30, fig. 32; Santos-Silva & Martins, 2010: 166, fig. 246; Le Tirant & Santos-Silva, 2014b: 1; Botero & Almeida, 2019: 54; Botero & Santos-Silva, 2020a: 152; Monné, 2023: 231.

Paratypes: ♀ "PARATIPO // Coleção / J.M. BOSQ // Peru / Satipo / XI-1942 // *Paracometes* / *peruvianus* / Villiers, 1958 // *Cometes* / *thomasi* / Hovore & / Santos-Silva // *America* / *thomasi* / (Hovore & / Santos-Silva, 2007) // MZSP 60555". (Fig. 7D-F) ♀ "PARATIPO // Satipo / PERU / VIII / A. Maller // U. Martins det. 199 / *Paracometes* / *peruvianus* / ??? // *Cometes* / *thomasi* / Hovore & / Santos-Silva // *America* / *thomasi* / (Hovore & / Santos-Silva, 2007) // MZSP 60556".

Current combination: *America thomasi.*

Cometes turnbowi Hovore & Santos-Silva, 2007 (Fig. 7G-I)

Cometes turnbowi Hovore & Santos-Silva, 2007b: 94, figs. 14, 41; Lingafelter *et al.,* 2014: 337, figs. 175i, j.
Cupecuara turnbowi; Santos-Silva & Tavakilian, 2009a: 16; Lagos & Barrios, 2014: 16; Botero & Santos-Silva, 2020b: 643, figs. 10-17; Monné, 2023: 235.

Paratype: ♀ "PARATYPE // PANAMA: C.Z. / BCI, 9°9'N, 79°51'W / 980520-980603 / Pickering & Windsor // malaise trap / *Cometes* / *turnbowi* / Hovore & / Santos-Silva // *Cupecuara* / *turnbowi* / (Hovore & / Santos-Silva, 2007) // MZSP 60579".

Current combination: *Cupecuara turnbowi.*

Cometes wappesi Santos-Silva & Martins, 2004 (Fig. 8A-C)

Cometes wappesi Santos-Silva & Martins, 2004: 150; Monné & Hovore, 2006: 301.
Arietocometes wappesi; Santos-Silva & Tavakilian, 2009b: Lingafelter *et al.,* 2014: 346; Botero & Santos-Silva, 2021: 213; Monné, 2023: 233.

Paratype: ♀ "PARÁTIPO // Panama Chiriqui / Cont'l Divide Trail / 12-14 May 1999 / Wappes & Morris // *Cometes* / *wappesi* / Santos-Silva / & Martins // *Arietocometes* / *wappesi* / (Santos-Silva & / Martins, 2004) // MZSP 60587".

Current combination: *Arietocometes wappesi.*

Cometes zikani Melzer, 1926 (Fig. 8D-F)

Cometes zikani Melzer, 1926: 6; Zikán & Zikán, 1944: 4; Zikán & Wygodzinsky, 1948: 32; Villiers, 1958: 413; Zajciw, 1972: 48; Santos-Silva & Martins, 2004: 147, fig. 3; Hovore & Santos-Silva, 2007b: 82, figs. 27, 37, 48; Santos-Silva & Tavakilian, 2009a: 8; Santos-Silva & Martins, 2010: 122, fig. 217; Monné *et al.,* 2017: 86; Monné, 2023: 234.

Lectotype: ♀ "LECTÓTIPO // Typus // Typus // 3. Virginia XII / S. Minas Ger. / Faz. Campos / 1500 m. 1915 / J. Zikán // *Cometes* / *zikani* / Melz. // MZSP 40936" (Fig. 8D-F).

Paralectotypes (3): ♀ "PARALECTÓTIPO // Cotypus // Cotypus // J.F. Zikán // [FRONT] Mimas (Brazil) / Passa Quatro / Faz. Campos / XII.17 / [VERSE] 25.-XII.-1917 / Zikan // *Cometes* / *zikani* / Melz. // MZSP 40938". ♀ "PARALECTÓTIPO // Cotypus // Cotypus // J. Zikán // IEEA // [FRONT] Virginia / S. Minas Ger. / Faz. Campos / 1500 m. / [VERSE] 21.-XI.-19 // M-fot. / II.71 // *Cometes* / *zikani* / Melz. // MZSP 40939". ♀ "PARALECTÓTIPO // Cotypus // Cotypus // J.F. Zikán // [FRONT] Minas (BRAZIL) / Passa Quatro / FAZ. DOS CAMPOS / 23.XI.15 / [VERSE] 23.XI.1915 // *Cometes* / *zikani* / Melz. // MZSP 40937".

Cupecuara erwini Botero & Santos-Silva, 2020 (Fig. 8G-I)

Cupecuara erwini Botero & Santos-Silva, 2020b: 643, figs. 18-37; Monné, 2023: 234.

Holotype: ♂ "HOLOTYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39'10"S 076°26'W / T.L. Erwin *et al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 7 Project MAXUS Lot 926 // MZSP 60566".

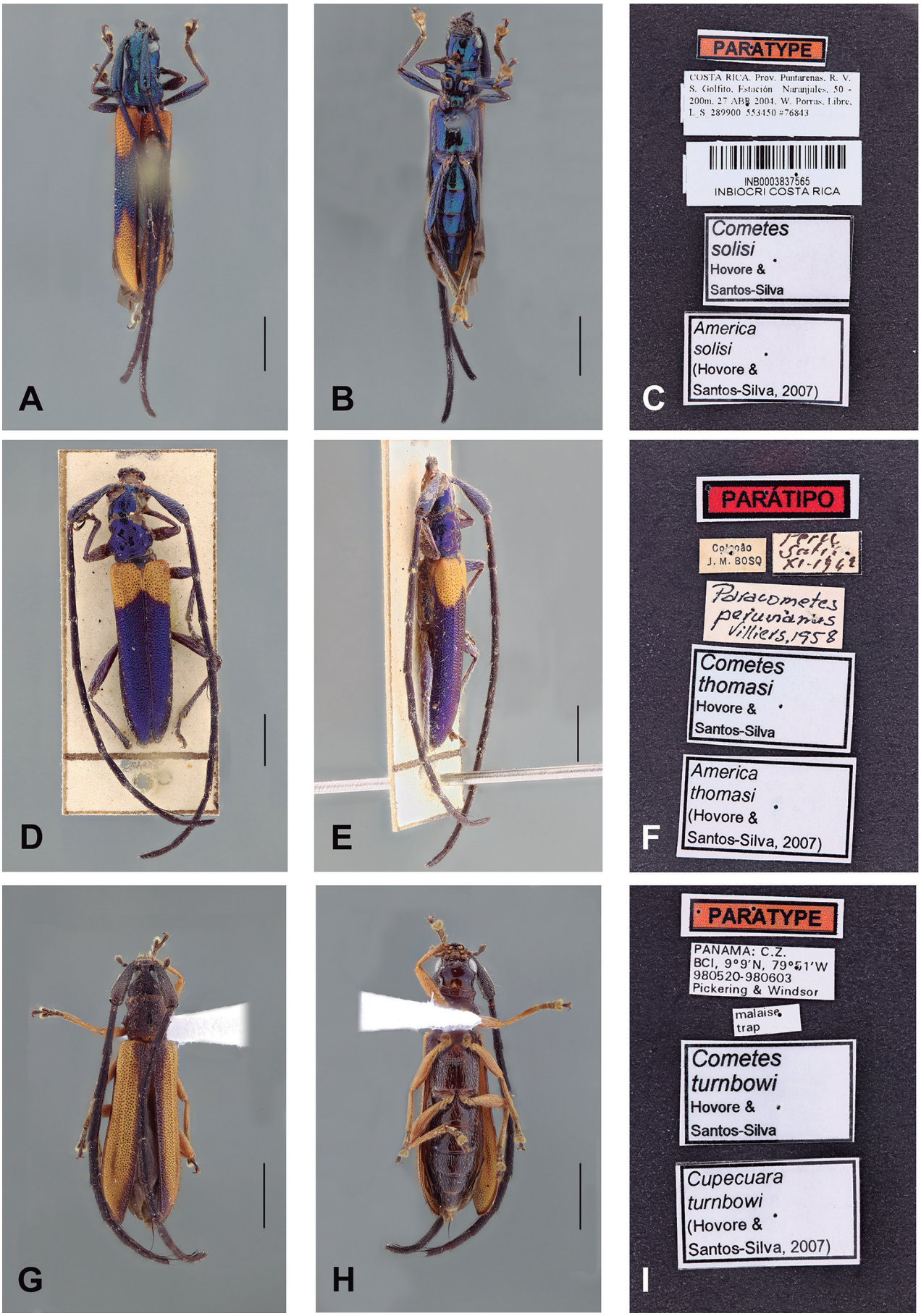

Figure 7. Disteniidae type specimens. (A-C) *Cometes solisi* Hovore & Santos-Silva, 2007, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Cometes thomasi* Hovore & Santos-Silva, 2007, female paratype (D) Dorsal view (E) Lateral view (F) Original labels (G-I) *Cometes turnbowi* Hovore & Santos-Silva, 2007, female paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 2 mm.

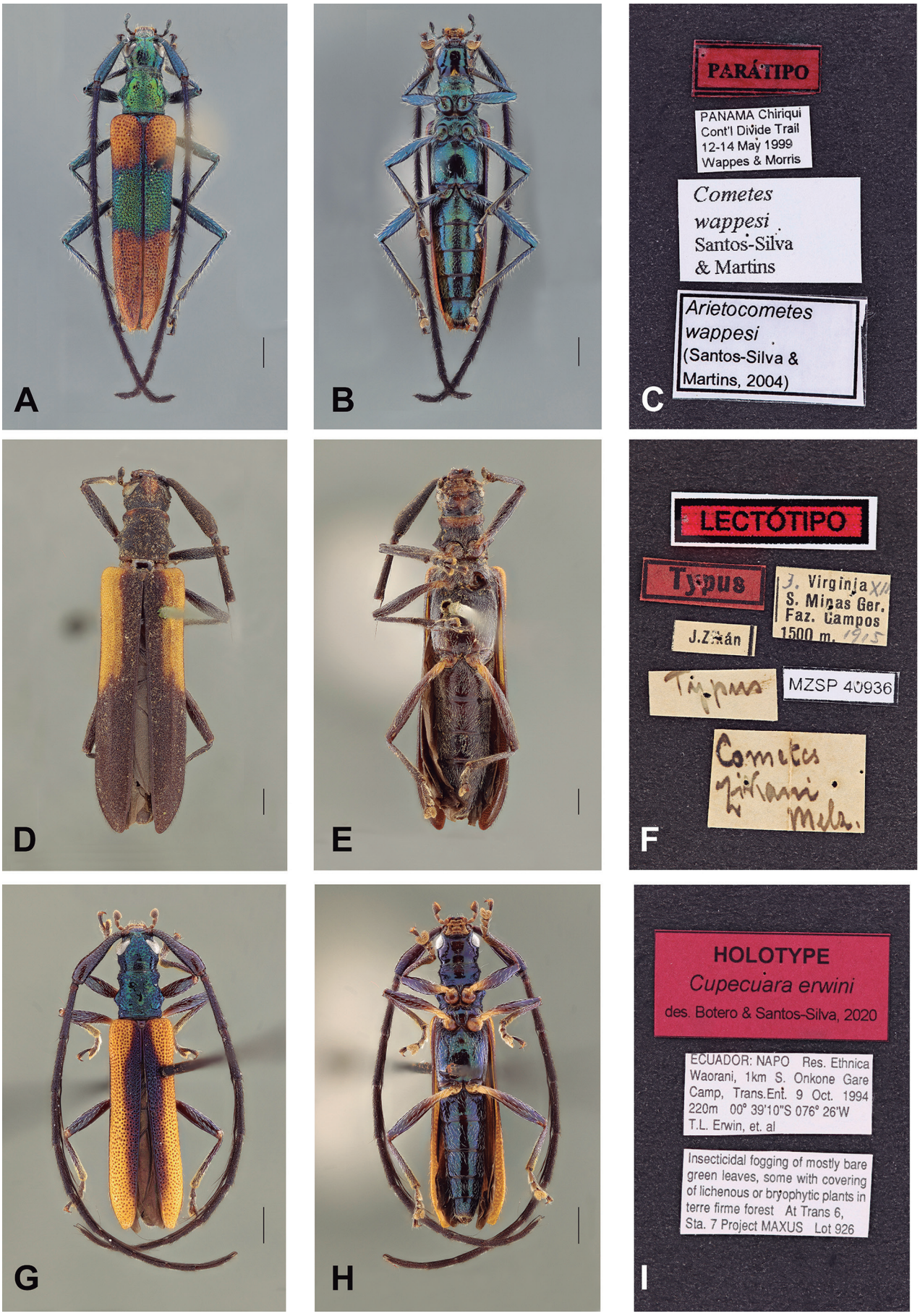

Figure 8. Disteniidae type specimens. (A-C) *Cometes wappesi* Santos-Silva & Martins, 2004, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Cometes zikani* Melzer, 1926, female lectotype (D) Dorsal view (E) Ventral view (F) Original labels (G-I) *Cupecuara erwini* Botero & Santos-Silva, 2020, male holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

Paratypes (11): ♀ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin, *et. al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 3 Project MAXUS Lot 922 // MZSP 60577". ♂ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 6 Oct. 1995 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* collectors // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 10 Project MAXUS Lot 1230 // MZSP 60568". ♂ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 8 Oct. 1995 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* collectors // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 10, / Sta. 10 Project MAXUS Lot 1270 // MZSP 60569". ♀ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 10 Project MAXUS Lot 929 // MZSP 60567". ♂ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 8 Oct. 1995 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* collectors // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 10, / Sta. 6 Project MAXUS Lot 1266 // MZSP 60571". ♂ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin, *et. al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 3 Project MAXUS Lot 922 // MZSP 60570" ♀ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin, *et. al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 5, / Sta. 8 Project MAXUS Lot 917 // MZSP 60572" ♂ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 2 Oct. 1996 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* collectors // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 3 Project MAXUS Lot 1713 // MZSP 60574". ♀ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 4 Oct. 1996 / 220 m 00°39′10″S 076°26′W / T.L. Erwin *et al.* collectors // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 10, / Sta. 3 Project MAXUS Lot 1753 // MZSP 60575". ♂ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin, *et. al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 3 Project MAXUS Lot 928 // MZSP 60573". ♂ "PARATYPE / *Cupecuara erwini* / des. Botero & Santos-Silva, 2020 // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39′10″S 076°26′W / T.L. Erwin, *et. al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 6, / Sta. 3 Project MAXUS Lot 922 // MZSP 60576".

Distenia (Distenia) charynae Santos-Silva & Hovore, 2007 (Fig. 9A-C)

Distenia (Distenia) charynae Santos-Silva & Hovore, 2007b: 24, figs. 28, 39; Santos-Silva & Martins, 2010: 226, fig. 298; Monné, *et al.,* 2017: 86; Botero & Almeida, 2019: 47; Monné, 2023: 236.

Holotype: ♂ "HOLÓTIPO // Sta. Cruz da Serra / (5 km 5 W) – RO / 4-10.XI.985 / MZ – Polo Noroeste // *D. (Distenia)* / *charynae* / Santos-Silva / & Hovore // MZSP 40629".

Paratypes (2): ♀ "PARÁTIPO // R.F. Morris / collection // BOLIVIA: Santa Cruz / Buena Vista, F&F / Hotel, 14-17/ XI/03 / Morris, Nearns, / Wappes // *D. (Distenia)* / *charynae* / Santos-Silva / & Hovore // MZSP 40631". ♂ "PARÁTIPO // BOLIVIA, S. Cruz 4-6 K / SSE B. Vista F & F Hotel / 13-16 Nov 2003 J. / Wappes, Morris & Nearns // *D. (Distenia)* / *charynae* / Santos-Silva / & Hovore // MZSP 40630".

Distenia (Distenia) marcelae Santos-Silva & Hovore, 2007 (Fig. 9D-F)

Distenia (Distenia) marcelae Santos-Silva & Hovore, 2007b: 19, fig. 25, 36; Santos-Silva & Martins, 2010: 231, fig. 302; Santos-Silva & Galileo, 2011: 45; Giuglaris, 2012: 61; Morvan & Roguet, 2013: 39, fig. 79; Monné *et al.,* 2017: 86; Botero & Almeida, 2019: 55; Monné, 2023: 237.

Holotype: ♂ "HOLÓTIPO // BRASIL / ITAITUBA / (Rio Tapajos) / Estado Pará / DIRINGS // *Distenia* / sp. / M.A. Monné, det. 1973 // *D. (Distenia)* / *marcelae* / Santos-Silva / & Hovore // MZSP 40632".

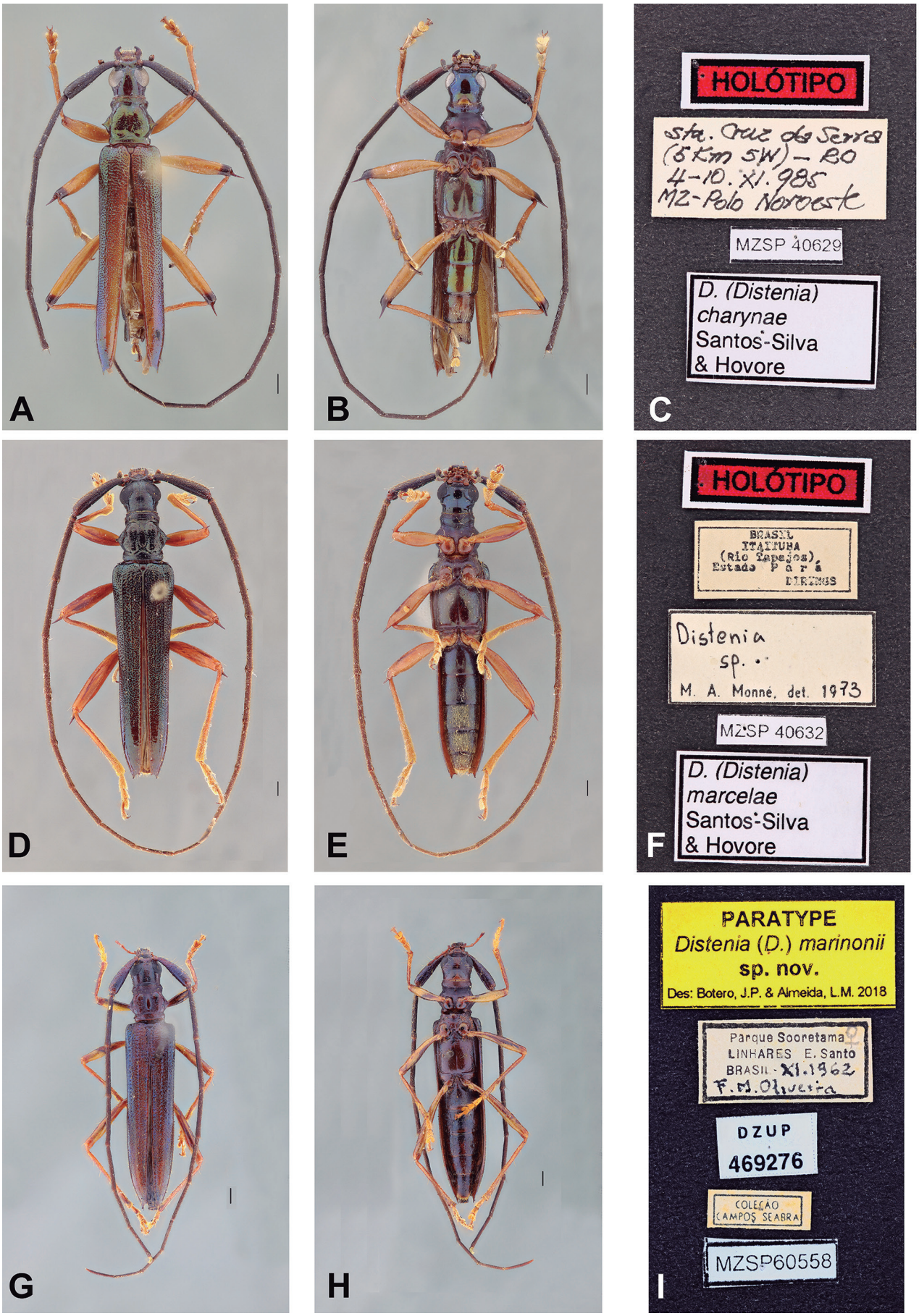

Figure 9. Disteniidae type specimens. (A-C) *Distenia (Distenia) charynae* Santos-Silva & Hovore, 2007, male holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Distenia (Distenia) marcelae* Santos-Silva & Hovore, 2007, male holotype (D) Dorsal view (E) Ventral view (F) Original labels (G-I) *Distenia (Distenia) marinonii* Botero & Almeida, 2019, female paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

Distenia marinonii Botero & Almeida, 2019 (Fig. 9G-I)

Paratypes (2): ♂ "PARATYPE / *Distenia (D.) marinonii* / sp. nov. / Des: Botero J.P. & Almeida, L.M. 2018 // Linhares, E.S. / X.1972 M[acho] / B. Silva // DZUP 469294 // MZSP 60557". ♀ "Paratype / *Distenia (D.) marinonii* / sp. nov. / Des: Botero J.P. & Almeida, L.M. 2018 // Parque Sooretama F[emea] / Linhares / E. Santo / Brasil XI.1962 / F.M. Oliveira // DZUP 469276 // Coleção Campos Seabra // MZSP 60558" (Fig. 9G-I).

Distenia (Distenia) mermudesi Santos-Silva & Hovore, 2007 (Fig. 10A-C)

Distenia (Distenia) mermudesi Santos-Silva & Hovore, 2007b: 16, figs. 2, 12, 24, 38; Santos-Silva & Martins, 2010: 223, fig. 291, 296; Monné *et al.,* 2017a: 86; Moura & Von Groll, 2017: 461; Botero & Almeida, 2019: 47; Monné, 2023: 238.

Holotype: ♂ "HOLÓTIPO // Brasil Pará / Serra Norte / 3-ALFA / 16-X-1984 // Brasil Pará / W Franca // *Distenia* / *agroides* / Bates, 1870 / M.H. Galileo det. 2002 // *Distenia (D.)* / *mermudesi* / Santos-Silva / & Hovore // MZSP 40635".

Paratypes (4): ♀ "PARÁTIPO // Utiariti / Rio Papagaio, Mt / 22-31.X.1966 / Lenko & Pereira // *Distenia (D.)* / *mermudesi* / Santos-Silva / & Hovore // MZSP 40636". ♂ "PARÁTIPO // BOLIVIA Santa Cruz / 4-6k SSE Buena Vista / F&F Hotel 23-26 Oct / 2000 Wappes & Morris // *D. (Distenia)* / *mermudesi* / Santos-Silva / & Hovore // MZSP 40641". ♀ "PARÁTIPO // R.F. Morris / collection // BOLIVIA: Santa Cruz / Buena Vista vic. / Flora & Fauna Hotel / 22-26/X/02, Morris / Wappes // *D. (Distenia)* / *mermudesi* / Santos-Silva / & Hovore // MZSP 40640". ♂ "PARÁTIPO // BOLIVIA Santa Cruz / 4-6k SSE Buena Vista / F&F Hotel 23-26 Oct. / 2000 Wappes & Morris // *D. (Distenia)* / *mermudesi* / Santos-Silva / & Hovore // MZSP 40639". ♂ "PARÁTIPO / BOLIVIA: Beni / Uyapi: Guanay / X-XI-1992 // *Distenia* / *agroides* / Bates, 1870 / M.H. Galileo det. 2002 / *Distenia (D.)* / *mermudesi* / Santos-Silva / & Hovore // MZSP 40637".

Distenia (Distenia) peninsularis Santos-Silva & Hovore, 2008 (Fig. 10D-F)

Distenia (Distenia) peninsularis Santos-Silva & Hovore, 2008c: 14, figs. 8, 14; Botero & Almeida, 2019: 47; Monné, 2023: 238.

Paratype: ♀ "PARÁTIPO // Rancho Quemado, Pen. / Osa. Prov. Punt, COSTA / RICA, F. Quesada, Abr / 1991, L-S 292500, 511000 // COSTA RICA / INBIO / CR1000 / 658662 // *Distenia* / *(Distenia)* / *peninsularis* / Santos-Silva & Hovore // MZSP 40679".

Distenia pulchra Melzer, 1926 (Fig. 10G-I)

Distenia pulchra Melzer, 1926: 5; Zikán & Zikán, 1944: 4; Blackwelder, 1946: 558; Zikán & Wigodzinsky, 1948: 33; Villiers, 1959: 58.
Oculipetilus pulcher; Santos-Silva & Hovore, 2007c: 16, figs. 79, 90; Santos-Silva & Martins, 2010: 181, fig. 262; Monné *et al.,* 2017a: 87; Monné, 2023: 256.
Distenia mirabilis Villiers, 1959: 62, figs. 7-9.

Lectotype: ♂ "Typus // Typus // [FRONT] Virginia / S. Minas Ger. / Faz. Campos / 1500 m. / J. Zikan / [VERSE] 2.-XII.-1920 // *Distenia* / *pulchra* / Melz. // MZSP 40838" (Fig. 10G-I).

Paralectotypes (2): ♀ "Cotypus // Cotypus // IEEA // [FRONT] Virginia / S. Minas Ger. / Faz. Campos / 1500 m. / J. Zikan / [VERSE] 5.-I.-1919 // *Distenia* / *pulchra* / Melz. // MZSP 40840". ♀ "Cotypus // Cotypus // J.F. ZIKÁN // [FRONT] MINAS (BRAZIL) / PASSA QUATRO / FAZ. DOS CAMPOS / [VERSE] 1 jan. 1918 / Zikán // *Distenia* / *pulchra* / Melz. // MZSP 40839".

Current combination: *Oculipetilus pulcher.*

Distenia (Distenia) solangeae Santos-Silva & Hovore, 2007 (Fig. 11A-C)

Distenia (Distenia) solangeae Santos-Silva & Hovore, 2007b: 21, figs. 3, 9, 26, 31; Santos-Silva & Martins, 2010: 220, figs. 289, 292, 294; Botero & Almeida, 2019: 45; Monné, 2023: 238.

Paratypes (2): ♂ "PARÁTIPO // COLECAO / CAMPOS SEABRA // SINOP 12°31′S, 55°37′W / BR 163 km 500 a 600 / Mato Grosso, BRASIL / 350 m X.1974 / Alvarenga & Roppa col. // *D. (Distenia)* / *solangeae* / Santos-Silva / & Hovore // MZSP 40647". ♂ "PARÁTIPO // COLECAO / CAMPOS SEABRA // SINOP 12°31′S, 55°37′W / BR 163 km 500 a 600 / Mato Grosso, BRASIL / 350 m X.1974 / Alvarenga & Roppa col. // *D. (Distenia)* / *solangeae* / Santos-Silva / & Hovore // MZSP 40646" (Fig. 11A-C).

Distenia (Distenia) tavakiliani Santos-Silva & Hovore, 2007 (Fig. 11D-F)

Distenia (Distenia) tavakiliani Santos-Silva & Hovore, 2007b: 22, figs. 27, 39; Santos-Silva & Martins, 2010: 234, fig. 304; Botero & Almeida, 2019: 47; Monné, 2023: 239.

Paratype: ♂ "PARÁTIPO // IavH / Ei 132 / ii.2003 // COLOMBIA Amazonas / PNN Amacayacu Matamata / m2 3°41′S 70°15′W 150 m / Malaise 9-30.vii.2001 / D. Chota

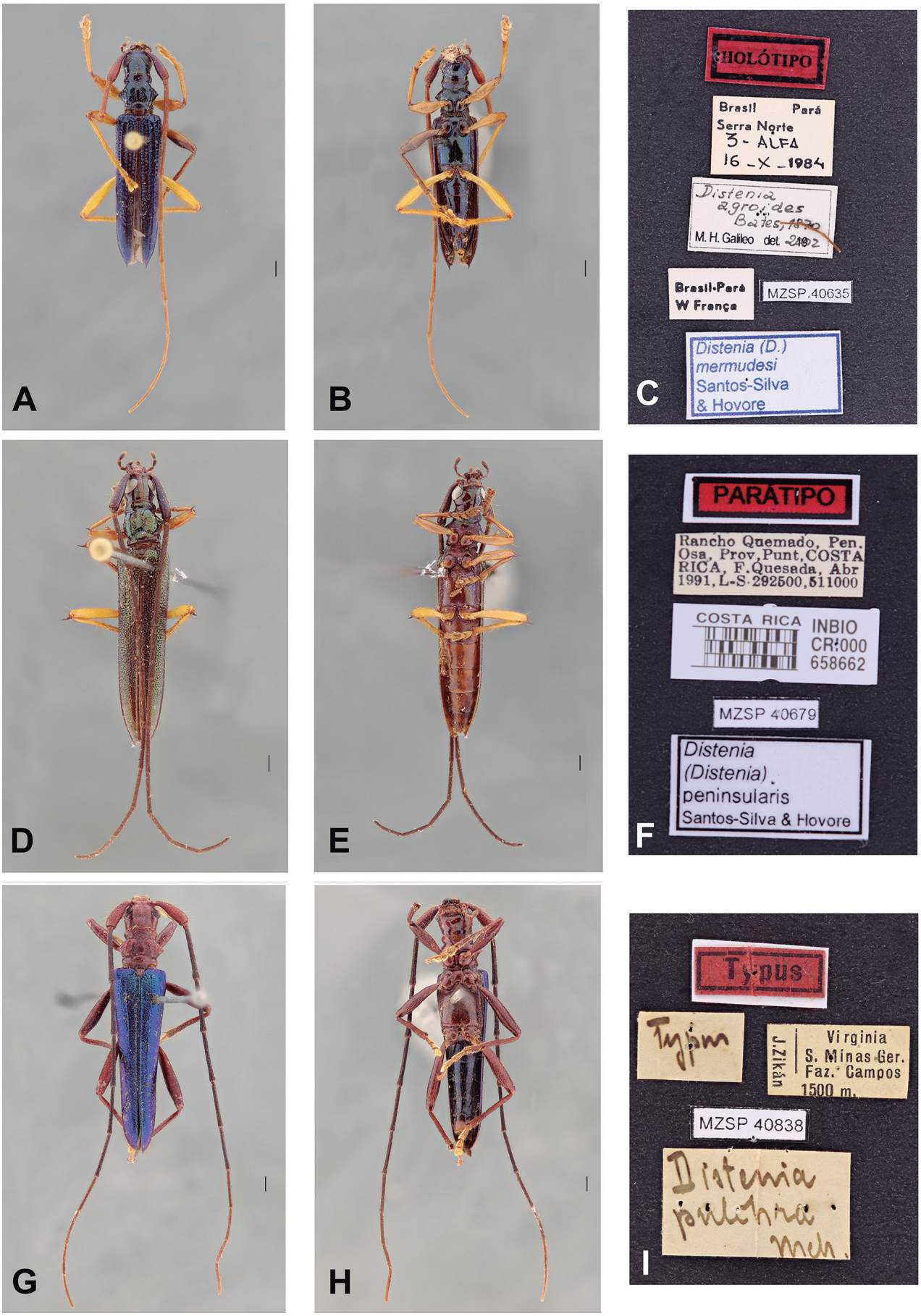

Figure 10. Disteniidae type specimens. (A-C) *Distenia (Distenia) mermudesi* Santos-Silva & Hovore, 2007, male holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Distenia (Distenia) peninsularis* Santos-Silva & Hovore, 2008, female paratype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Distenia pulchra* Melzer, 1926, male lectotype (D) Dorsal view (E) Ventral view (F) Original labels. Scale bar: 1 mm.

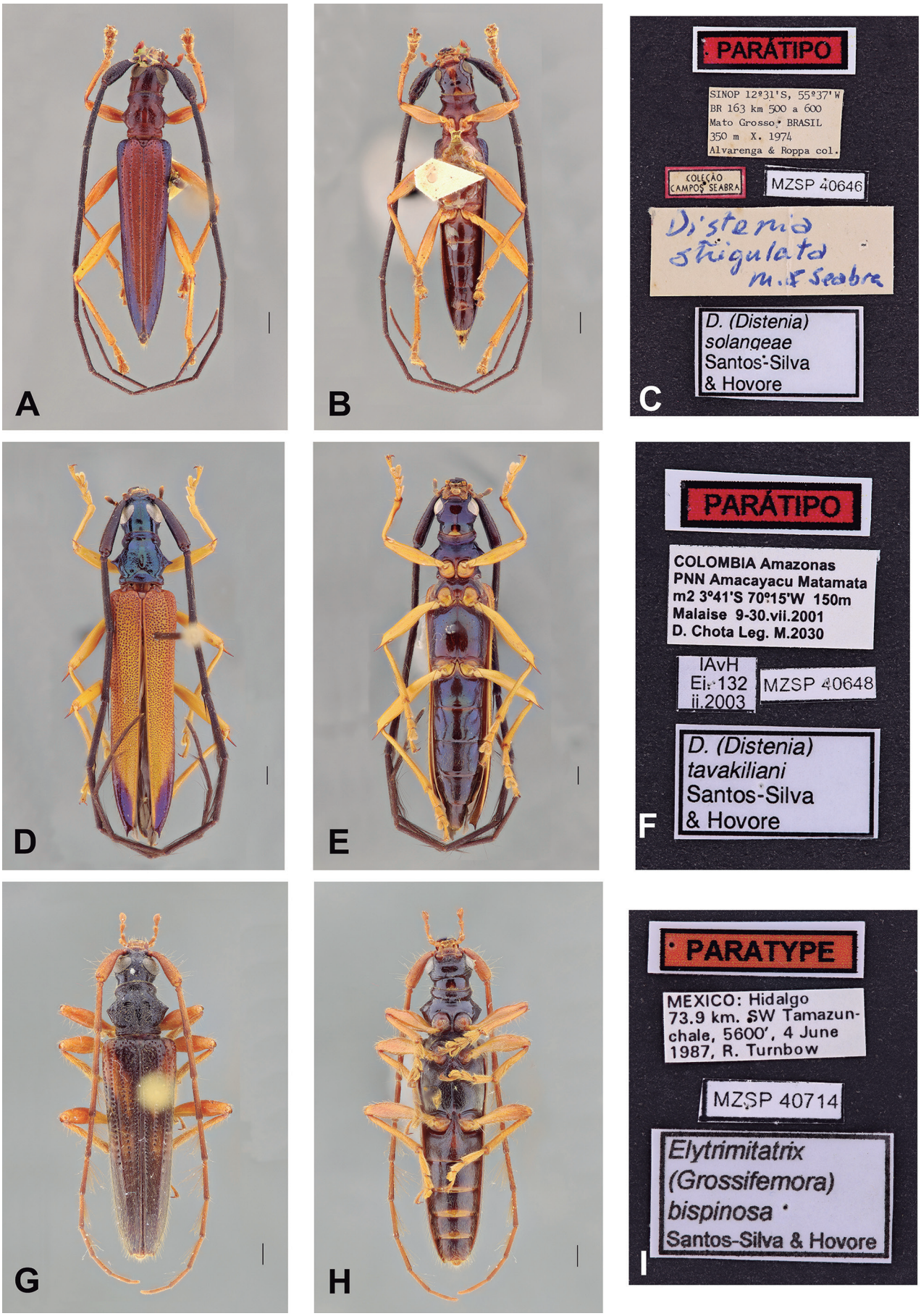

Figure 11. Disteniidae type specimens. (A-C) *Distenia (Distenia) solangeae* Santos-Silva & Hovore, 2007, male paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Distenia (Distenia) tavakiliani* Santos-Silva & Hovore, 2007, male paratype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Elytrimitatrix (Grossifemora) bispinosa* Santos-Silva & Hovore, 2008, male paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

Leg. M.2030. // *D. (Distenia)* / *tavakiliani* / Santos-Silva & Hovore // MZSP 40648".

Elytrimitatrix (Grossifemora) bispinosa Santos-Silva & Hovore, 2008 (Fig. 11G-I)

Elytrimitatrix (Grossifemora) bispinosa Santos-Silva & Hovore, 2008b: 2; Heffern & Santos-Silva, 2016: 573; Monné, 2023: 242.

Paratypes (2): ♀ "PARATYPE // Mexico / Queretaro / 19.0 mi. W. Xilitla / 50001 / 12.VI.1983 / R. Anderson / dry oak forest // *Elytrimitatrix* / *(Grossifemora)* / *bispinosa* / Santos-Silva & Hovore // MZSP 40713". ♂ "PARATYPE // Mexico / Hidalgo / 73.9 km SW Tamazunchale / 5600' / 4 June 1987 / R. Turnbow // *Elytrimitatrix* / *(Grossifemora)* / *bispinosa* / Santos-Silva & Hovore // MZSP 40714" (Fig. 11G-I).

Elytrimitatrix (Grossifemora) castanea Santos-Silva & Hovore, 2008 (Fig. 12A-C)

Elytrimitatrix (Grossifemora) castanea Santos-Silva & Hovore, 2008b: 10; Lingafelter *et al.,* 2014: 38; Monné, 2023: 243.

Paratypes (3): ♂ "PARÁTIPO // Panama: Panama / Llano Carti Rd., at / km 9, V-18-1993 / Coll. E.G. Riley // *Distenia* sp. / (near rufa Vill.) / det. E. Giesbert // *Elytrimitatrix* / *(Grossifemora)* / *castanea* / Santos-Silva & Hovore // MZSP 40716". (Fig. 12A-C) ♂ "PARATYPE // 12 km N El Llano / Pan. Prov., Panama / 23/24 Jan 1993 / F.T. Hovore, coll. // *Elytrimitatrix* / *(Grossifemora)* / *castanea* / Santos-Silva & Hovore // MZSP 40718". ♀ "PARATYPE // Panama: Panama Prov. / 9 km N El Llano / V-21-1993, blacklight / R. Andrews & A. Gilbert // *Elytrimitatrix* / *(Grossifemora)* / *castanea* / Santos-Silva & Hovore // MZSP 40717".

Elytrimitatrix (Grossifemora) charpentierae Le Tirant & Santos-Silva, 2014 (Fig. 12D-F)

Elytrimitatrix (Grossifemora) charpentierae Le Tirant & Santos-Silva, 2014b: 2; Monné *et al.,* 2017: 86; Monné, 2023: 243.

Holotype: ♂ "HOLOTYPE // Peru – Pasco / Pozuzo / IV.2014 / local collector // *Elytrimitatrix* / *(Grossifemora)* / *charpentierae* / Le Tirant & Santos-Silva // MZSP 40719".

Paratypes (2): ♀ "PARATYPE // Peru – Pasco / Pozuzo / IV.2014 / local collector // *Elytrimitatrix* / *(Grossifemora)* / *charpentierae* / Le Tirant & Santos-Silva // MZSP 40721". ♂ "PARATYPE // Peru – Pasco / Pozuzo / IV.2014 / local collector // *Elytrimitatrix* / *(Grossifemora)* / *charpentierae* / Le Tirant & Santos-Silva // MZSP 40720".

Elytrimitatrix (Grossifemora) cinnamea Santos-Silva & Hovore, 2008 (Fig. 12G-I)

Elytrimitatrix (Grossifemora) cinnamea Santos-Silva & Hovore, 2008c: 5; Monné *et al.,* 2017: 86; Monné, 2023: 243.

Holotype: ♀ "HOLÓTIPO // Costa Rica, Puntar. / Golfo Dulce, 24 km W. / Piedras Brancas, 200 m, II 1992, Hanson // *Elytrimitatrix* / *(Grossifemora)* / *cinnamea* / Santos-Silva & Hovore // MZSP 40724".

Elytrimitatrix (Grossifemora) clavata Santos-Silva & Hovore, 2008 (Fig. 13A-C)

Elytrimitatrix (Grossifemora) clavata Santos-Silva & Hovore, 2008b: 5; Santos-Silva & Hovore, 2008c: 10; Lingafelter *et al.,* 2014: 42; Monné, 2023: 243.

Paratypes (9): ♂ "PARÁTIPO // Catemaco / Ver. – Mexico / VI.1954 / Kissinger // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 40725". ♂ "PARÁTIPO // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 40726". (Fig. 13A-C) ♂ "PARATYPE // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 40729". ♂ "PARATYPE // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 40731". ♀ "PARATYPE // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 40732". ♂ "PARÁTIPO // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 60559". ♂ "PARÁTIPO // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 40727". ♀ "PARÁTIPO // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 40728". ♂ "PARATYPE // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Elytrimitatrix* / *(Grossifemora)* / *clavata* / Santos-Silva & Hovore // MZSP 40730".

Elytrimitatrix (Grossifemora) cunninghami Heffern & Santos-Silva, 2016 (Fig. 13D-F)

Elytrimitatrix (Grossifemora) cunninghami Heffern & Santos-Silva, 2016: 575; Botero & Santos-Silva, 2020a: 157; Monné, 2023: 244.

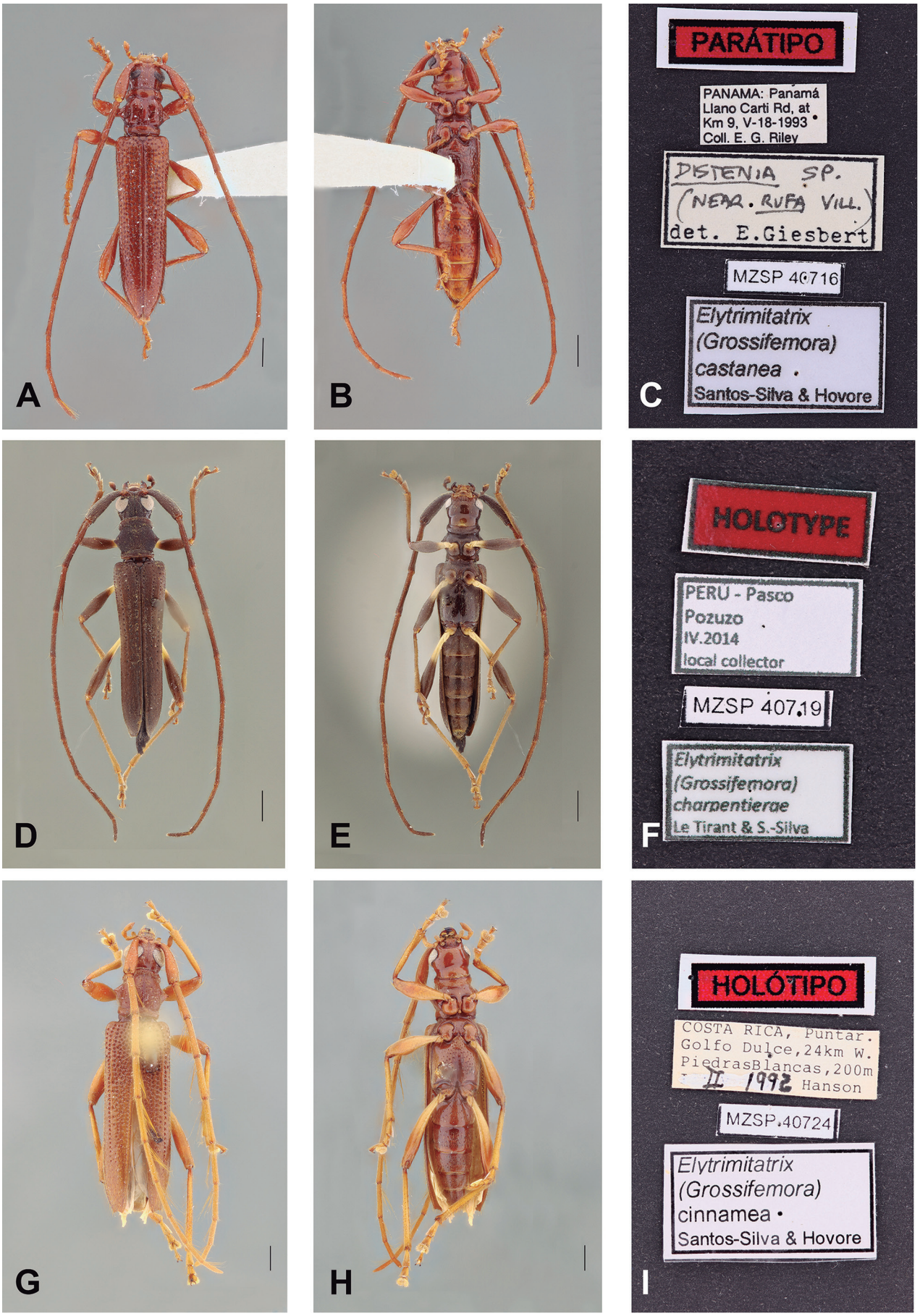

Figure 12. Disteniidae type specimens. (A-C) *Elytrimitatrix (Grossifemora) castanea* Santos-Silva & Hovore, 2008, male paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Elytrimitatrix (Grossifemora) charpentierae* Le Tirant & Santos-Silva, 2014, male holotype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Elytrimitatrix (Grossifemora) cinnamea* Santos-Silva & Hovore, 2008, female holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

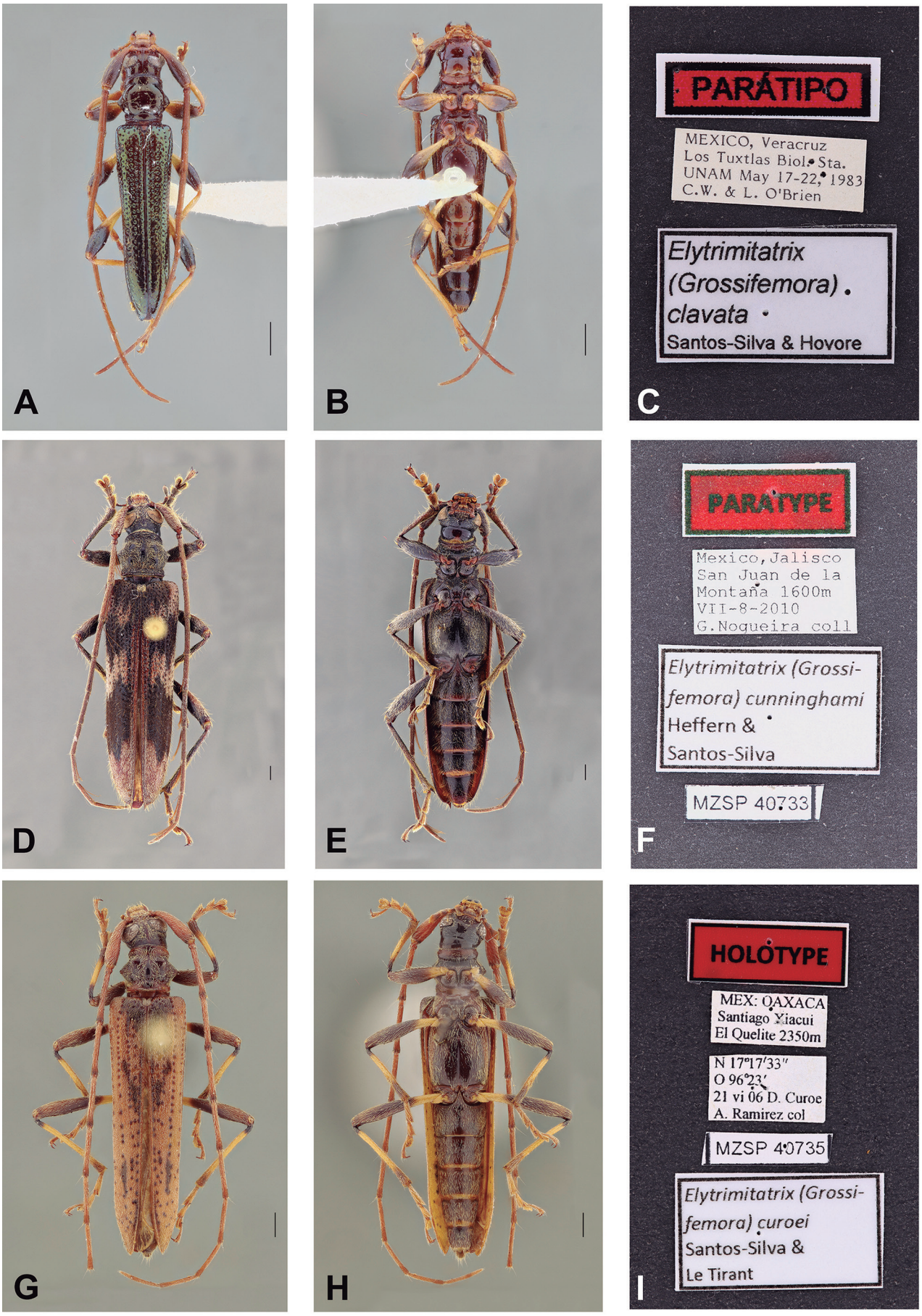

Figure 13. Disteniidae type specimens. (A-C) *Elytrimitatrix (Grossifemora) clavata* Santos-Silva & Hovore, 2008, male paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Elytrimitatrix (Grossifemora) cunninghami* Heffern & Santos-Silva, 2016, female paratype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Elytrimitatrix (Grossifemora) curoei* Santos-Silva & Le Tirant, 2016, male holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

Paratypes (2): ♂ "PARATYPE // Mexico, Jalisco // La Primavera 1600 m / VII-15-1998 / G. Nogueira col. // MZSP 40734". ♀ "PARATYPE // Mexico, Jalisco / San Juan de la / Montaña 1600 m / VII-8-2010 / G. Nogueira coll. // *Elytrimitatrix* / *(Grossifemora)* / *cunninghami* / Heffern & Santos-Silva // MZSP 40733" (Fig. 13D-F).

Elytrimitatrix (Grossifemora) curoei Santos-Silva & Le Tirant, 2016 (Fig. 13G-I)

Elytrimitatrix (Grossifemora) curoei Santos-Silva & Le Tirant, 2016: 301; Monné *et al.,* 2017: 86; Monné, 2023: 244.

Holotype: ♂ "HOLOTYPE // Mex.: Oaxaca / Santiago Xiacui / El Quelite 2350 m // N 17°17′33" / O 96°23′ / 21 VI 06 D. Curoe / A. Ramirez col. // *Elytrimitatrix* / *(Grossifemora)* / *curoei* / Santos-Silva & Le Tirant // MZSP 40735".

Paratype: ♀ "PARATYPE // Mexico, Oaxaca / Sierra de Juárez / 1650 m V-10/11-1997 / G. Nogueira col. // *Elytrimitatrix* / *(Grossifemora)* / *curoei* / Santos-Silva & Le Tirant // MZSP 40736".

Elytrimitatrix (Grossifemora) franki Botero & Santos-Silva, 2020 (Fig. 14A-C)

Elytrimitatrix (Grossifemora) franki Botero & Santos-Silva, 2020a: 157; Monné, 2023: 244.

Holotype: ♀ "HOLOTYPE / *Elytrimitatrix (G.) franki* / Botero & Santos-Silva, 2020 // Ecuador, Loja Prov. / 18.5 km N Gonzanama / 04°08′08.5"S, 79°23′36.4"W / 22 February 2006 / F.T. Hovore, I. Swift coll // MZSP 60560".

Elytrimitatrix (Grossifemora) giesberti Santos-Silva & Hovore, 2008 (Fig. 14D-F)

Elytrimitatrix (Grossifemora) giesberti Santos-Silva & Hovore, 2008a: 12; Santos-Silva & Hovore, 2008b: 22; Monné *et al.,* 2017: 86; Monné, 2023: 244.

Holotype: ♀ "HOLÓTIPO // Mexcala / Gro. Mex. / VI-29.51 // H.E. Evans / Collector // *Distenia* / *hogei* / Bates // *Elytrimitatrix* / *(Grossifemora)* / *giesberti* / Santos-Silva & Hovore // MZSP 40737".

Paratype: ♂ "PARÁTIPO // Mexcala / Gro. Mex. / VI-29.51 // H.E. Evans / Collector // *Distenia* / *hogei* / Bates // *Elytrimitatrix* / *(Grossifemora)* / *giesberti* / Santos-Silva & Hovore // MZSP 40738".

Elytrimitatrix (Grossifemora) guatemalana Santos-Silva & Hovore, 2008 (Fig. 14G-I)

Elytrimitatrix (Grossifemora) guatemalana Santos-Silva & Hovore, 2008b: 13; Santos-Silva & Le Tirant, 2016: 302; Monné, 2023: 245.

Paratypes (2): ♂ "PARATYPE // Honduras: Copan / 6 km NW San Agustin / 19 May 2002 / R. Turnbow // *Distenia* / *agriloides* Bates / det. R. Turnbow // *Elytrimitatrix* / *(Grossifemora)* / *guatemalana* / Santos-Silva & Hovore // MZSP 40742". (Fig. 14G-I) ♂ "PARATYPE // Guatemala, Zacapa / 6 km S La Unión, 4600" / May 5-11, 1991 / E. Giesbert coll. // *Elytrimitatrix* / *(Grossifemora)* / *guatemalana* / Santos-Silva & Hovore // MZSP 40743".

Elytrimitatrix (Grossifemora) hefferni Santos-Silva & Hovore, 2008 (Fig. 15A-C)

Elytrimitatrix (Grossifemora) hefferni Santos-Silva & Hovore, 2008c: 4; Monné, 2023: 245.

Paratype: ♂ "PARATYPE // Mexico, Sonora / 5 m. E. Alamos / Aug. II 1973 / K. Stephan leg. // *Elytrimitatrix* / *(Grossifemora)* / *hefferni* // Santos-Silva & Hovore // MZSP 40744".

Elytrimitatrix (Grossifemora) hondurenha Santos-Silva & Hovore, 2008 (Fig. 15D-F)

Elytrimitatrix (Grossifemora) hondurenha Santos-Silva & Hovore, 2008b: 7; Lingafelter *et al.,* 2014: 76; Santos-Silva & Le Tirant, 2016: 302; Monné, 2023: 245.

Paratypes (3): ♀ "PARATYPE // Honduras: Olancho / La Muralla / V-24-1996, F.G. / Andrews & A.J. Gilbert / keys to hoegei ~ X // *Elytrimitatrix* / *(Grossifemora)* / *hondurenha* / S.-Silva & Hovore // MZSP 40747". ♀ "PARÁTIPO // Honduras, Ol. / P.N. La Muralla / late July 1992 / D. Hawks coll. // *Elytrimitatrix* / *(Grossifemora)* / *hondurenha* / Santos-Silva & Hovore // MZSP 40746". ♂ "PARATYPE // Honduras: Yoro / PN Pico Pijol, mv +/ bl, 23 July 2001 / R. Turnbow // *Distenia* / *agriloides* Bates / det. R. Turnbow // *Elytrimitatrix* / *(Grossifemora)* / *hondurenha* / Santos-Silva & Hovore // MZSP 40745" (Fig. 15D-F).

Elytrimitatrix (Grossifemora) incognita Santos-Silva & Hovore, 2008 (Fig. 15G-I)

Elytrimitatrix (Grossifemora) incognita Santos-Silva & Hovore, 2008c: 13; Monné *et al.,* 2017: 86; Monné, 2023: 245.

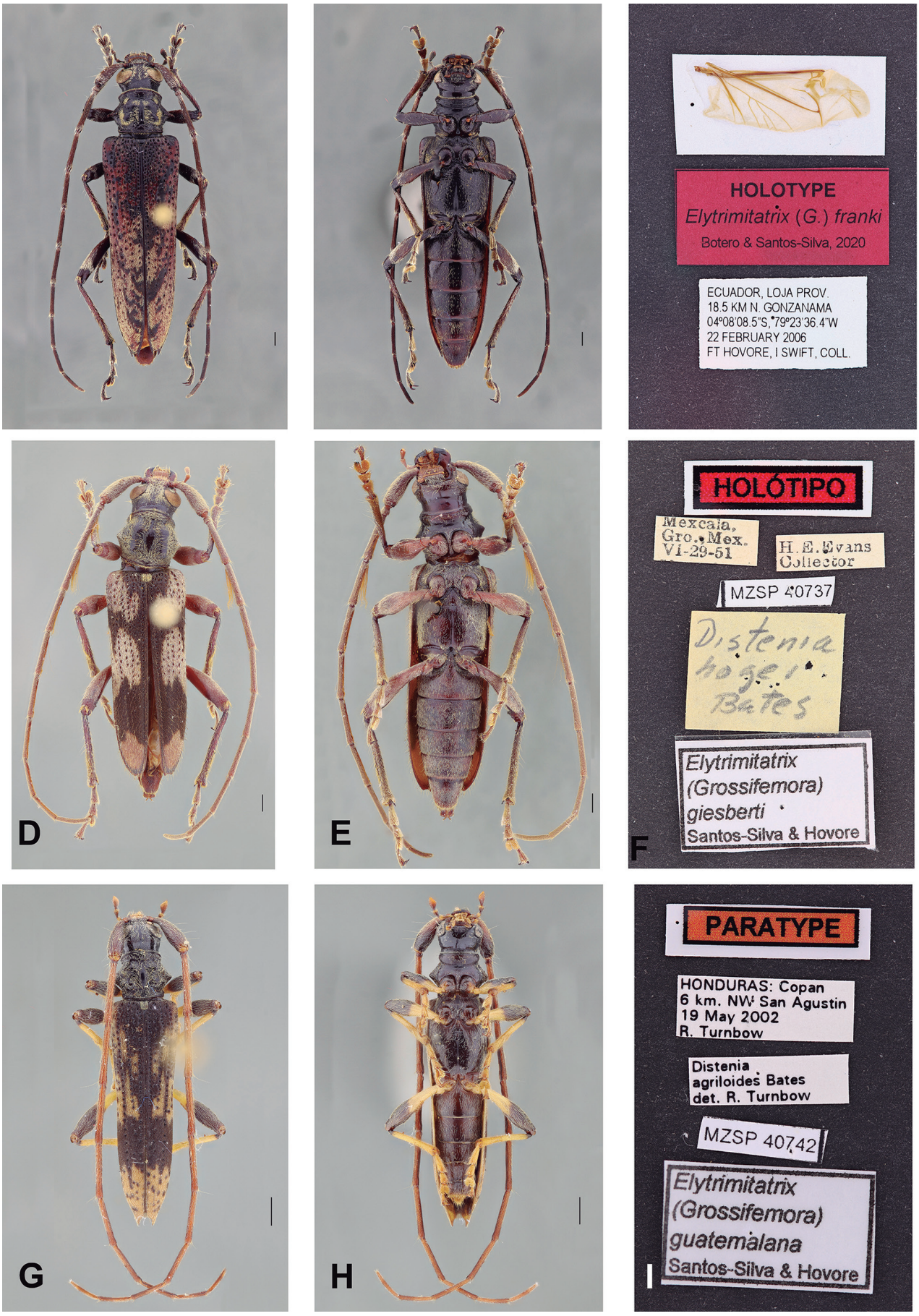

Figure 14. Disteniidae type specimens. (A-C) *Elytrimitatrix (Grossifemora) franki* Botero & Santos-Silva, 2020, female holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Elytrimitatrix (Grossifemora) giesberti* Santos-Silva & Hovore, 2008, female holotype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Elytrimitatrix (Grossifemora) guatemalana* Santos-Silva & Hovore, 2008, male paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

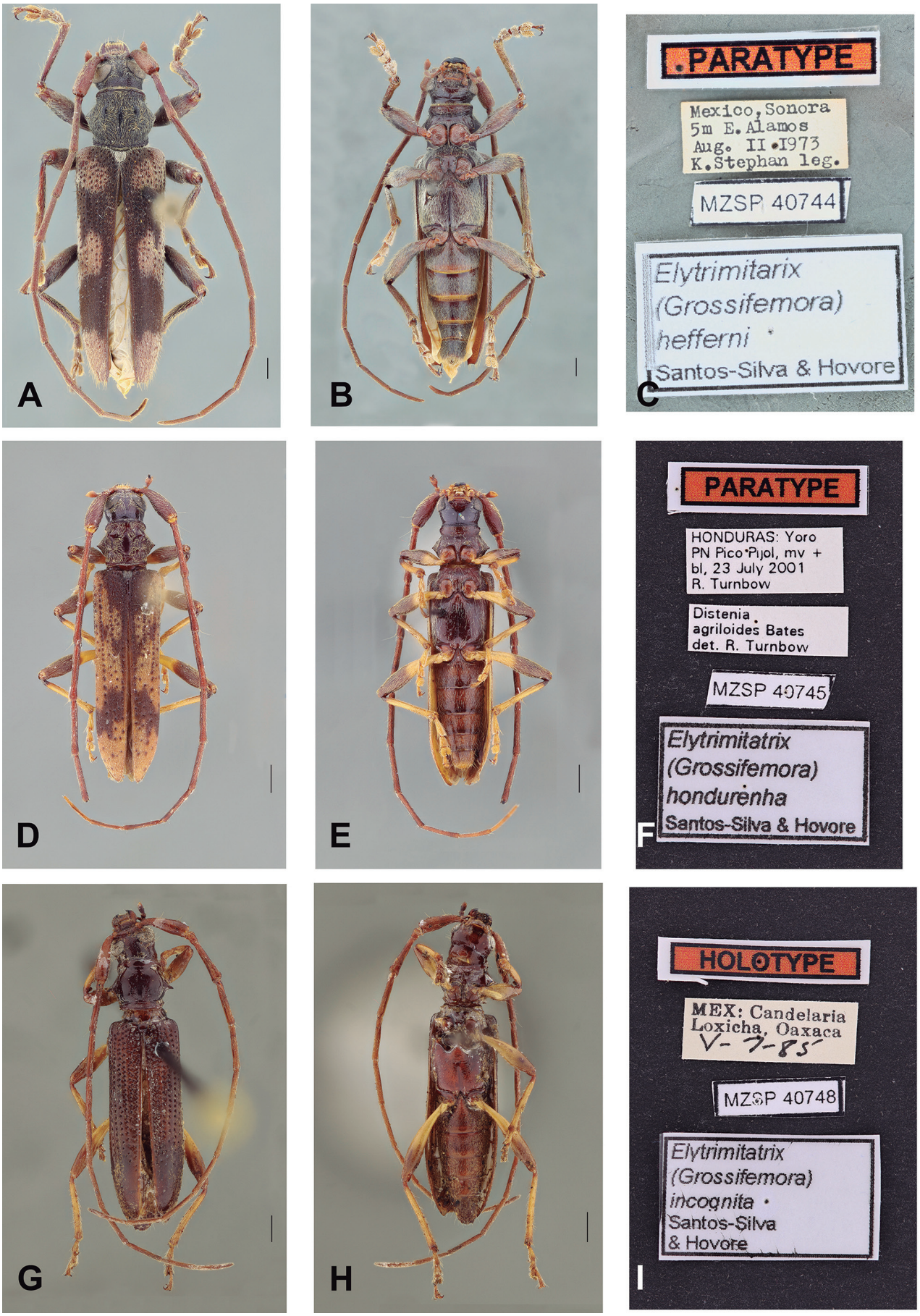

Figure 15. Disteniidae type specimens. (A-C) *Elytrimitatrix (Grossifemora) hefferni* Santos-Silva & Hovore, 2008, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Elytrimitatrix (Grossifemora) hondurenha* Santos-Silva & Hovore, 2008, male paratype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Elytrimitatrix (Grossifemora) incognita* Santos-Silva & Hovore, 2008, female holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

Holotype: ♀ "HOLOTYPE // Mex.: Candelaria / Loxicha, Oaxaca / 5-7-85 // *Elytrimitatrix* / *(Grossifemora)* / *incognita* / Santos-Silva / & Hovore // MZSP 40748".

Elytrimitatrix (Grossifemora) mexicana Santos-Silva & Hovore, 2008 (Fig. 16A-C)

Elytrimitatrix (Grossifemora) mexicana Santos-Silva & Hovore, 2008a: 17; Santos-Silva & Hovore, 2008b: 21; Heffern & Santos-Silva, 2016: 577; Botero & Almeida, 2019: 56; Monné, 2023: 246.

Paratype: ♀ "PARATYPE // Mex.: Oaxaca / 5 mi NW of / Huajuapan / VII-28-81 / Peter Jump // *Distenia* sp / near hoegei // det. E. Giesbert // *Elytrimitatrix* / *(Grossifemora)* / *mexicana* / Santos-Silva & Hovore // MZSP 40752".

Elytrimitatrix (Grossifemora) michelii Santos-Silva & Hovore, 2008 (Fig. 16D-F)

Elytrimitatrix (Grossifemora) michelii Santos-Silva & Hovore, 2008c: 10; Monné *et al.,* 2017: 86; Monné, 2023: 246.

Holotype: ♂ "HOLOTYPE // 4000', 15 mi. S. Valle Nacional, / Oax.: Mex. V.20, / 1971 H. Howden // *Distenia* / pictipes Bates / det. F. Hovore, 2004 // How // *Elytrimitatrix* / *(Grossifemora)* / *michelii* / Santos-Silva / & Hovore // MZSP 40753".

Paratype: ♂ "PARATYPE // 4000', 15 mi. S. Valle Nacional, / Oax.: Mex. V.20, / 1971 H. Howden How // *Elytrimitatrix* / *(Grossifemora)* / *michelii* / Santos-Silva / & Hovore // MZSP 40753".

Elytrimitatrix (Grossifemora) nearnsi Santos-Silva & Hovore, 2008 (Fig. 16G-I)

Elytrimitatrix (Grossifemora) nearnsi Santos-Silva & Hovore, 2008a: 23; Santos-Silva & Hovore, 2008b: 21; Lingafelter *et al.,* 2014: 104; Monné, 2023: 246.

Paratype: ♂ "PARÁTIPO // Mexico, Veracruz / Los Tuxtlas Bio. Sta. / UNAM May 17-22, 1983 / C.W. & L. O'Brien // *Distenia* / sp / det. J.E. Wappes // *Elytrimitatrix* / *(Grossifemora)* / *nearnsi* / Santos-Silva & Hovore // MZSP 40755".

Elytrimitatrix (Grossifemora) pseudovittata Santos-Silva & Hovore, 2008 (Fig. 17A-C)

Elytrimitatrix (Grossifemora) pseudovittata Santos-Silva & Hovore, 2008b: 16; Monné *et al.,* 2017: 86; Monné, 2023: 247.

Holotype: ♂ "HOLOTYPE // Guat. 5 km N Finca / Colimas, Zunilito / Such. V-6-1966 / J.M. Campbell 6000' // U.R. Martins det. 1976 / *Distenia* / vittata / Bat. // *Elytrimitatrix* / *(Grossifemora)* / *pseudovittata* / Santos-Silva & Hovore // MZSP 40760".

Paratype: ♀ "PARATYPE // Guatemala. San Marcos / La Fraternidad / VI-2000 1600 m / J. Monzon coll. // *Elytrimitatrix* / *(Grossifemora)* / *pseudovittata* / Santos-Silva & Hovore // MZSP 40761".

Elytrimitatrix (Grossifemora) setosa Santos-Silva & Hovore, 2008 (Fig. 17D-F)

Elytrimitatrix (Grossifemora) setosa Santos-Silva & Hovore, 2008b: 17; Monné, 2023: 248.

Paratypes (2): ♀ "PARATYPE // Guatemala, Zacapa / 6 km S La Unión, 4600' / May 5-11, 1991 / E. Giesbert col. // *Elytrimitatrix* / *(Grossifemora)* / *setosa* / Santos-Silva & Hovore // MZSP 40762". (Fig. 17D-F) ♂ "PARATYPE // Guatemala, Zacapa / 6 km S La Unión, 4600' / May 5-11, 1991 / E. Giesbert col. // *Elytrimitatrix* / *(Grossifemora)* / *setosa* / Santos-Silva & Hovore // MZSP 40763".

Elytrimitatrix (Grossifemora) sharonae Santos-Silva & Hovore, 2008 (Fig. 17G-I)

Elytrimitatrix (Grossifemora) sharonae Santos-Silva & Hovore, 2008a: 16; Santos-Silva & Hovore, 2008b: 21; Lingafelter *et al.,* 2014: 319; Monné, 2023: 248.

Paratype: ♀ "Guatml. B. Verapaz / 19-24 km N Salama / May 25-31, 1989 4500' / J.E. Wappes // *Distenia* sp / det. E. Giesbert // *Elytrimitatrix* / *(Grossifemora)* / *sharonae* / Santos-Silva & Hovore // MZSP 40764".

Elytrimitatrix (Grossifemora) spinifemora Santos-Silva & Hovore, 2008 (Fig. 18A-C)

Elytrimitatrix (Grossifemora) spinifemora Santos-Silva & Hovore, 2008c: 7; Monné *et al.,* 2017: 86; Monné, 2023: 248.

Holotype: ♂ "HOLÓTIPO // Guatemala: Guat. / Antigua, 2000 m, 20 June 1973 / Ginter Ekis // JAC // new? // *Elytrimitatrix* / *(Grossifemora)* / *spinifemora* / Santos-Silva & Hovore // MZSP 40771".

Elytrimitatrix (Grossifemora) violacea Santos-Silva & Hovore, 2008 (Fig. 18D-F)

Elytrimitatrix (Grossifemora) violacea Santos-Silva & Hovore, 2008b: 4; Lingafelter *et al.,* 2014: 344; Monné, 2023: 248.

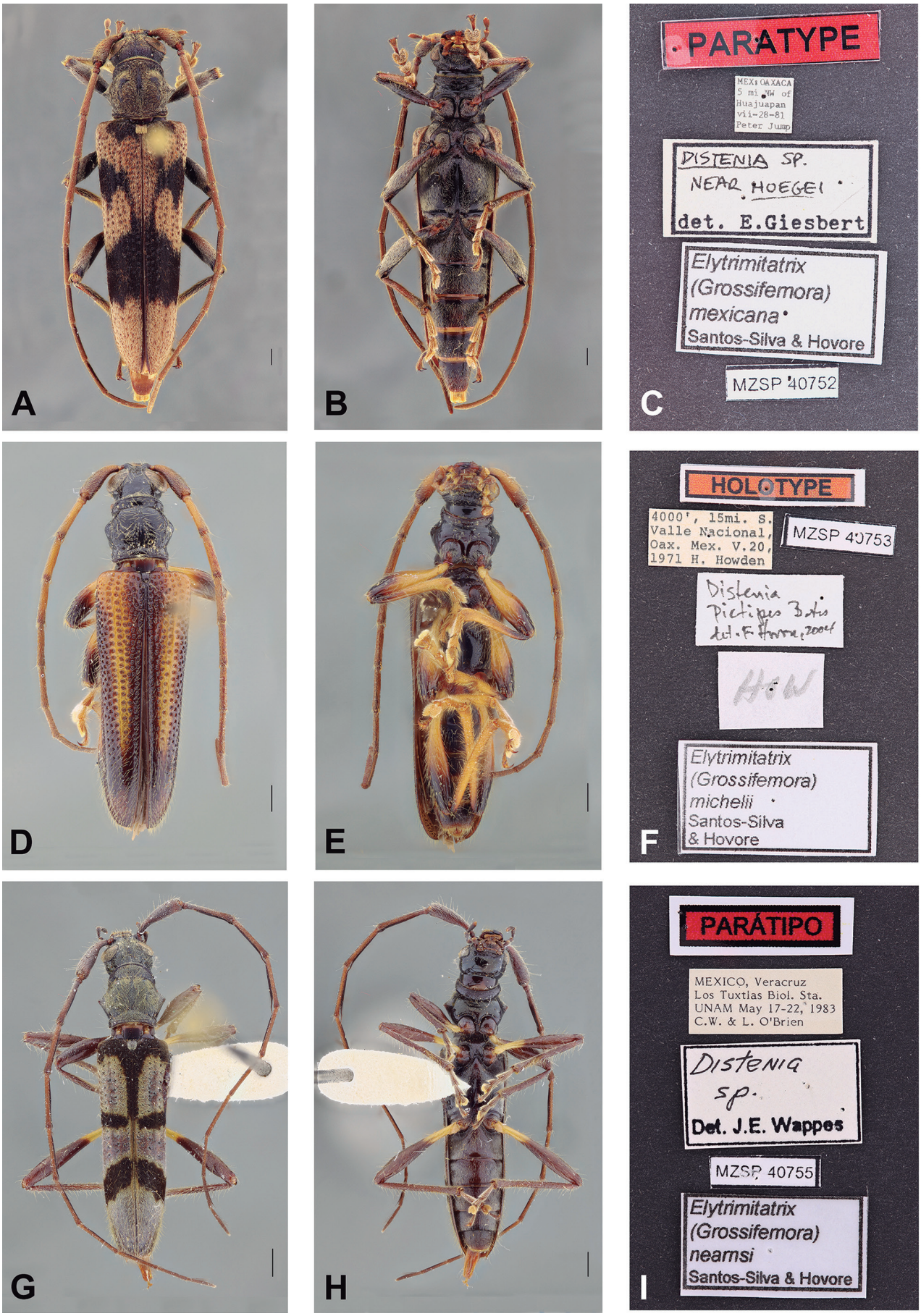

Figure 16. Disteniidae type specimens. (A-C) *Elytrimitatrix (Grossifemora) mexicana* Santos-Silva & Hovore, 2008, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Elytrimitatrix (Grossifemora) michelii* Santos-Silva & Hovore, 2008, male holotype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Elytrimitatrix (Grossifemora) nearnsi* Santos-Silva & Hovore, 2008, female paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

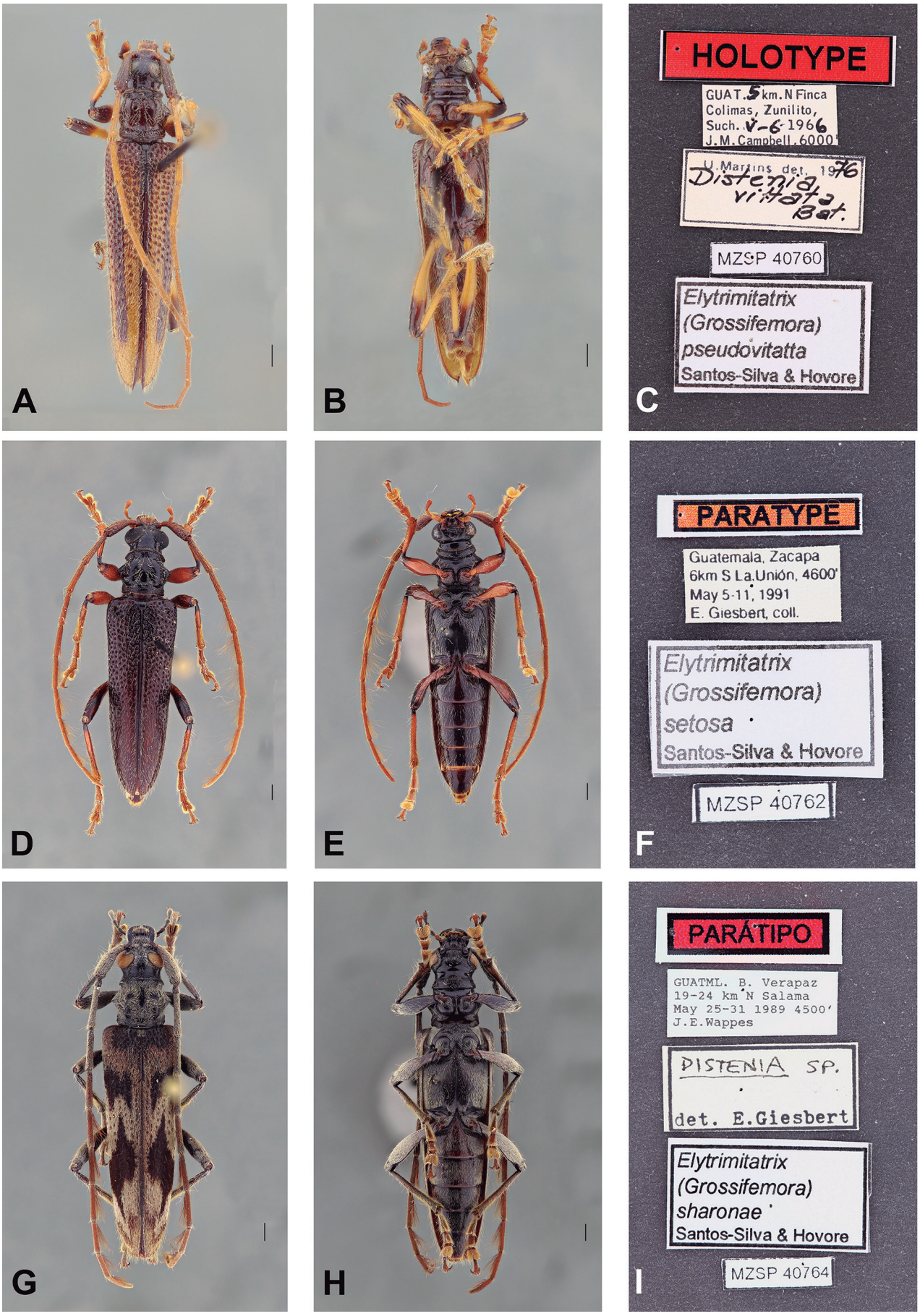

Figure 17. Disteniidae type specimens. (A-C) *Elytrimitatrix (Grossifemora) pseudovittata* Santos-Silva & Hovore, 2008, male holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Elytrimitatrix (Grossifemora) setosa* Santos-Silva & Hovore, 2008, female paratype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Elytrimitatrix (Grossifemora) sharonae* Santos-Silva & Hovore, 2008, female paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

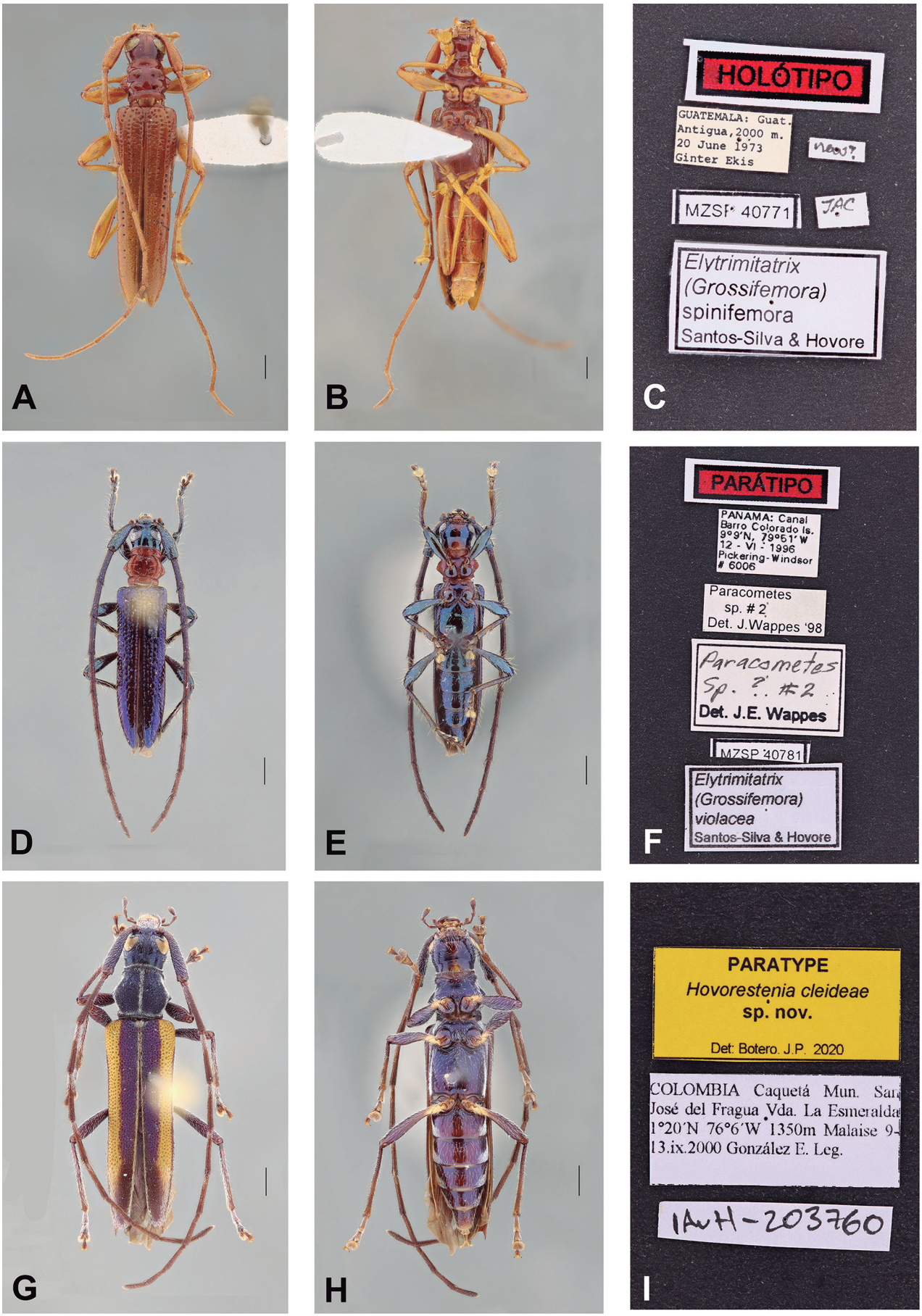

Figure 18. Disteniidae type specimens. (A-C) *Elytrimitatrix (Grossifemora) spinifemora* Santos-Silva & Hovore, 2008, male holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Elytrimitatrix (Grossifemora) violacea* Santos-Silva & Hovore, 2008, female paratype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Hovorestenia cleideae* Botero, 2020, female paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

Paratypes (4): ♀ "PARÁTIPO // Panama: Canal / Barro Colorado Is. / 9°9′N, 79°51′W / 12-VI-1996 / Pickering – Windsor / # 6006 // *Paracometes* / sp. # 2 / det. J. Wappes // *Paracometes* / sp. # 2 / det. J.E. Wappes // MZSP 60561". ♀ "PARATYPE // Santos-Silva & Hovore // MZSP 40781". (Fig. 18D-F) ♀ "PARATYPE // Barro Colorado I / Panama / 6 III 1981 / RB & LS Kimsey // *Elytrimitatrix* / *(Grossifemora)* / *violacea* / Santos-Silva & Hovore // MZSP 40782". ♀ "PARATYPE // Panamá, C.Z. / Coco Solo Hosp. / 9°21′N, 79°51′W / 26 Apr. 72 Stockwell // *Elytrimitatrix* / *(Grossifemora)* / *violacea* / Santos-Silva & Hovore // MZSP 40783".

Hovorestenia cleideae Botero, 2020 (Fig. 18G-I)

Hovorestenia cleideae Botero, 2020: 2, figs. 1A, B, 2-5; Monné, 2023: 249.

Paratypes (2): ♀ "PARATYPE / *Hovorestenia cleideae* / sp. nov. / Det Botero J.P. 2020 // COLOMBIA Cundinamarca PNN / Chingaza Bosque Palacio 4°31′N / 73°45′W 2930 m Winkler / 18-20.viii.2000 Cifuentes L. Leg. // MZSP 60562". ♀ "PARATYPE / *Hovorestenia cleideae* / sp. nov. / Det Botero J.P. 2020 // COLOMBIA Caquetá Mun. San / José del Fragua Vda. La Esmeralda / 1°20′N 76°6′W 1350 m Malaise 9- / 13.ix.2000 González E. Leg. // MZSP 60563" (Fig. 18G-I).

Novantinoe birai Santos-Silva & Hovore, 2007 (Fig. 19A-C)

Novantinoe birai Santos-Silva & Hovore, 2007a: 580, figs. 1, 13, 41; Santos-Silva & Martins, 2010: 206, fig. 281; Monné *et al.,* 2017a: 86; Botero & Almeida, 2019: 51; Botero & Gutiérrez, 2020: 4; Monné, 2023: 250.

Holotype: ♂ "HOLÓTIPO // IEEA // Colombia / Fusagasugá / 20.XI.1919 / P. Apolinar // *Distenia* / *agroides* / Bates // *Novantinoe* / *birai* / Santos-Silva / & Hovore // 18.768 // MZSP 40802".

Novantinoe chemsaki Santos-Silva & Hovore, 2007 (Fig. 19D-F)

Novantinoe chemsaki Santos-Silva & Hovore, 2007a: 588, figs. 26, 52; Santos-Silva & Martins, 2010: 196, fig. 272; Monné *et al.,* 2017a: 86; Botero & Almeida, 2019: 50; Monné, 2023: 250.

Holotype: ♂ "HOLÓTIPO // Colombia, Magdal. / 820 m. 20 mi. E. / Santa Marta / VI.30.73 J. Helava // U. Martins det. 1998 / *Distenia* / batesi ? / Vill. // *Novantinoe* / *chemsaki* / Santos-Silva / & Hovore // MZSP 40807".

Novantinoe cotopaxiana Santos-Silva & Hovore, 2007 (Fig. 19G-I)

Novantinoe cotopaxiana Santos-Silva & Hovore, 2007a: 594, figs. 30, 48; Santos-Silva & Martins, 2010: 195, fig. 271; Botero & Almeida, 2019: 50; Monné, 2023: 250.

Paratypes (4): ♀ "PARATYPE // Ecuador, Cotopaxi Pr., / vic. Las Pampas, / 11/12 April 1997 / F.T. Hovore, coll. // *Novantinoe* / *cotopaxiana* / Santos-Silva / & Hovore // MZSP 40813". ♂ "PARATYPE // Ecuador, Cotopaxi Pr., / vic. Las Pampas, / 11/12 April 1997 / F.T. Hovore, coll. // *Novantinoe* / *cotopaxiana* / Santos-Silva / & Hovore // MZSP 40812". ♀ "PARATYPE // Ecuador, Cotopaxi Pr. / 2 km N Las Pampas, 1450 m / April 10-12 1997 / E. Giesbert, F. Hovore // *Novantinoe* / *cotopaxiana* / Santos-Silva / & Hovore // MZSP 40811". ♂ "PARATYPE // Ecuador, Cotopaxi Pr., / vic. Las Pampas, / 11/12 April 1997 / F.T. Hovore, coll. // n. sp. Keys to / mathans // *Novantinoe* / *cotopaxiana* / Santos-Silva / & Hovore // MZSP 40810" (Fig. 19G-I).

Novantinoe cristinae Santos-Silva & Hovore, 2007 (Fig. 20A-C)

Novantinoe cristinae Santos-Silva & Hovore, 2007a: 598, figs. 31, 34, 57; Santos-Silva & Le Tirant, 2016: 299, figs. 6, 12; Botero & Almeida, 2019: 50; Monné, 2023: 251.

Paratype: ♀ "PARATYPE // GUAT. BAJA VERAPAZ / VIC. BIOTOPO DEL QUETZAL / 5200, MAY 25 – JUN 1, 1989 / E. GIESBERT, COLL. // *Novantinoe* / *cristinae* / Santos-Silva & Hovore // MZSP 40823".

Novantinoe hovorei Santos-Silva, 2007 (Fig. 20D-F)

Novantinoe hovorei Santos-Silva *in* Santos-Silva & Hovore, 2007a: 589, figs. 27, 49; Swift *et al.,* 2010: 68; Lingafelter *et al.,* 2014: 77; Botero & Almeida, 2019: 50; Heffern *et al.,* 2019: 573, fig. 35; Monné, 2023: 252.

Paratypes (2): ♂ "PARATYPE // Sector Las Pailas, P.N. Rincón de la Vieja, / Prov. Guana, COSTA RICA. 800 m. 6-7 / Jun 1994, D. García, L N 307300_388600 / # 3050 // COSTA RICA / INBIO / CRI001 / 908317 / *Novantinoe* / *hovorei* / Santos-Silva // MZSP 40824". (Fig. 20D-F) ♀ "PARATYPE // Sector Las Pailas, P.N. Rincón de la Vieja, / Prov. Guana, COSTA RICA. 800 m. 6-7 / Jun 1994, D. García, L N 307300_388600 / # 3050 // COSTA RICA / INBIO / CRI001 / 908316 / *Novantinoe* / *hovorei* / Santos-Silva // MZSP 40825".

Novantinoe iani Santos-Silva & Hovore, 2007 (Fig. 20G-I)

Novantinoe iani Santos-Silva & Hovore, 2007a: 601, figs. 32, 48; Santos-Silva & Martins, 2010: 200, fig. 276; Le Tirant & Santos-Silva, 2014b; 2; Monné *et al.,* 2017a: 86; Botero & Almeida, 2019: 56; Botero & Gutiérrez, 2020: 8; Monné, 2023: 253.

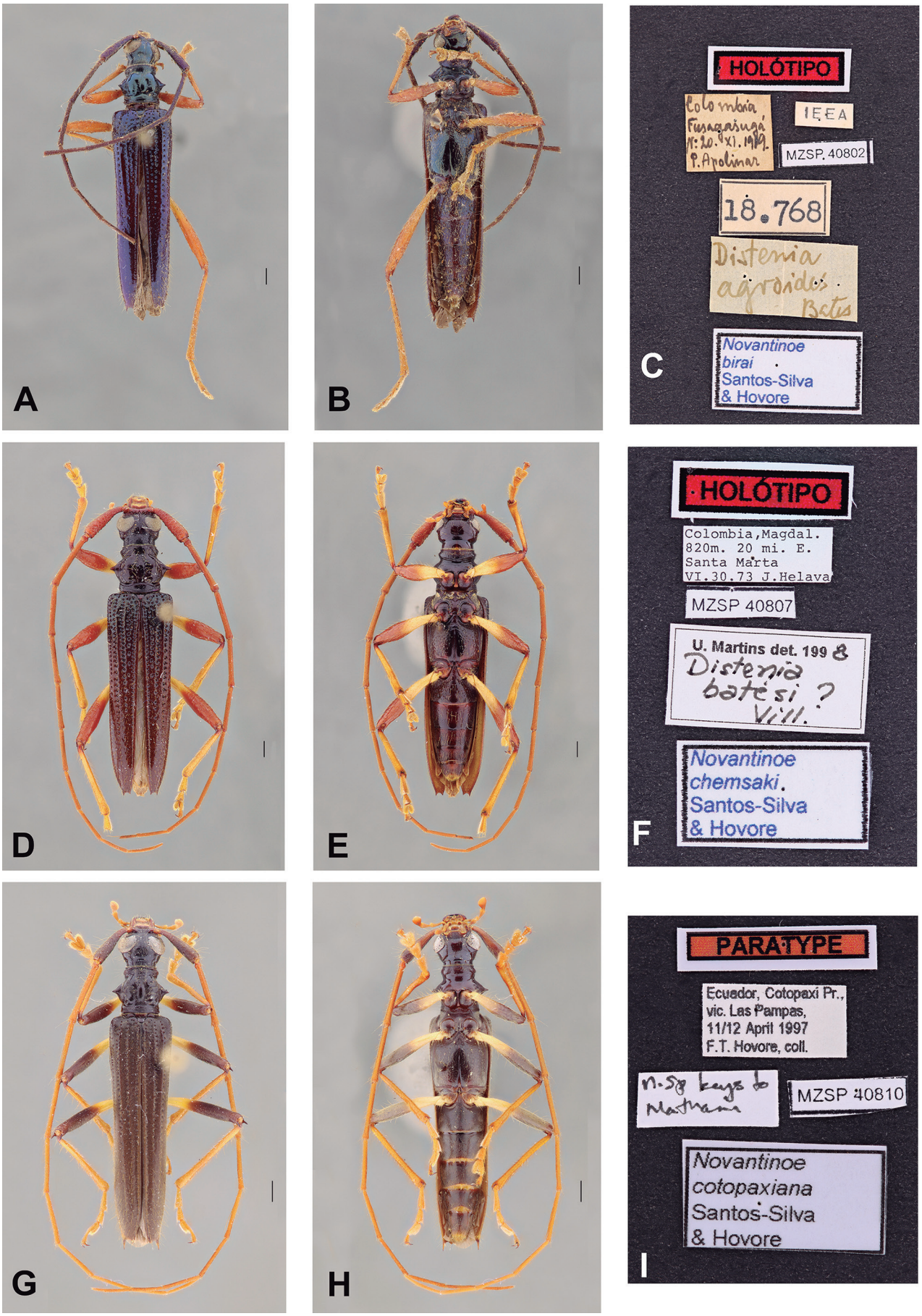

Figure 19. Disteniidae type specimens. (A-C) *Novantinoe birai* Santos-Silva & Hovore, 2007, male holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Novantinoe chemsaki* Santos-Silva & Hovore, 2007, male holotype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Novantinoe cotopaxiana* Santos-Silva & Hovore, 2007, male paratype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

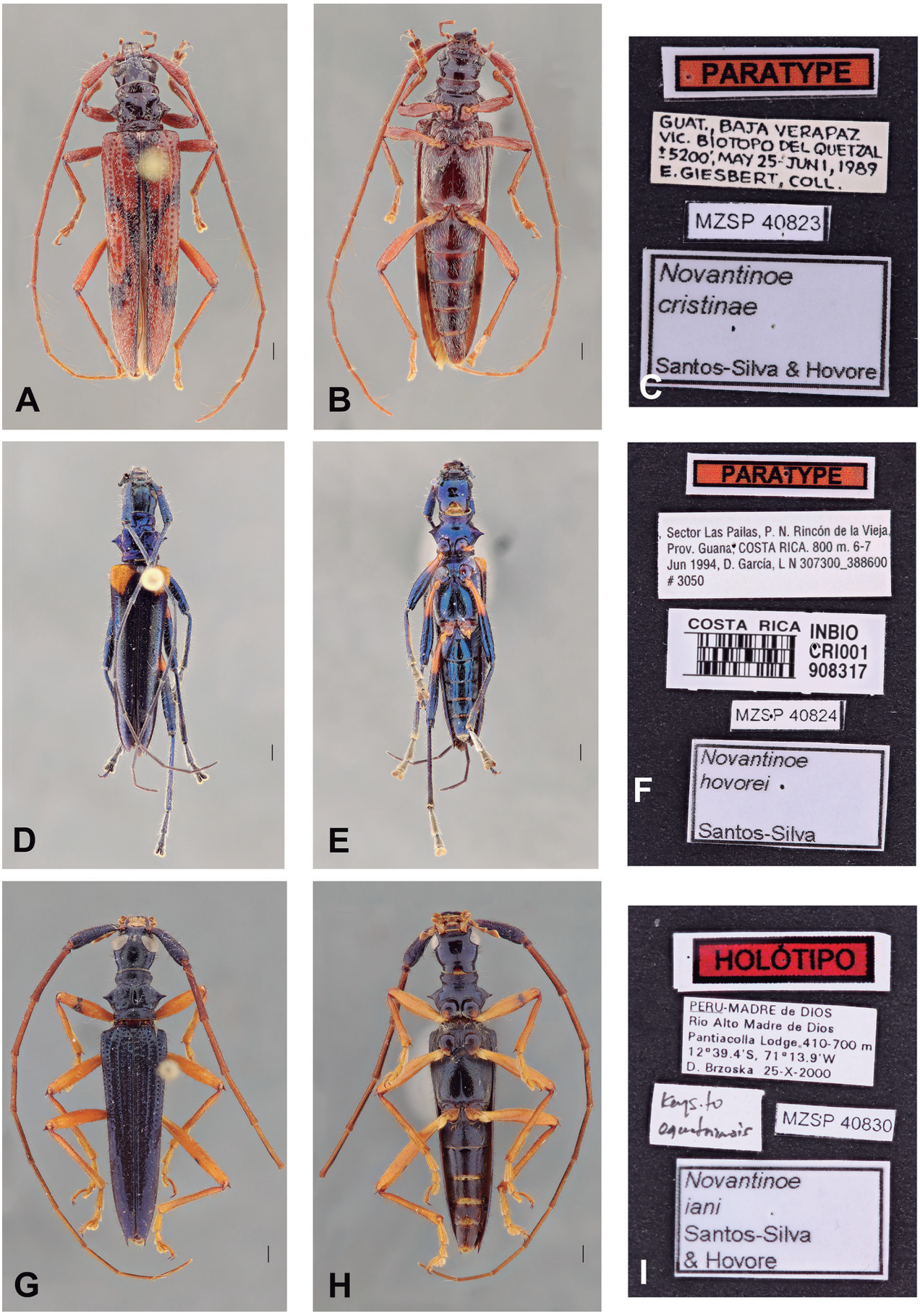

Figure 20. Disteniidae type specimens. (A-C) *Novantinoe cristinae* Santos-Silva & Hovore, 2007, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Novantinoe hovorei* Santos-Silva, 2007, male paratype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Novantinoe iani* Santos-Silva & Hovore, 2007, male holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

Holotype: ♂ "HOLOTYPE // PERU MADRE de DIOS / Rio Alto Madre de Dios / Pantiacolla Lodge 410-700 m / 12°39.4'S, 71°13.9'W / D. Brzoska 25-X-2000 // keys to / equatoriensis // *Novantinoe* / *iani* / Santos-Silva / & Hovore // MZSP 40830".

Paratypes (3): ♀ "PARÁTIPO // ECUADOR, Napo Pr. 2 km / N Ahuano, malaise trap / 05-15 Sept 2000 / F.T. Hovore, coll. // n. sp. keys to / equatoriensis // *Novantinoe* / *iani* / Santos-Silva / & Hovore // MZSP 40832". ♀ "PARÁTIPO // ECUADOR, Napo Pr. / 25 km E. Atahualpa / 10-15 Sept 1998 / F.T. Hovore, coll. // *Novantinoe* / *iani* / Santos-Silva / & Hovore // MZSP 40833". ♀ "PARÁTIPO // ECUADOR, Napo Pr. / Jatun Sacha Reserve, / 04-06 Sept 2000 / F.T. Hovore, coll. // *Novantinoe* / *iani* / Santos-Silva / & Hovore // MZSP 40831".

Novantinoe lezamai Santos-Silva & Hovore, 2007 (Fig. 21A-C)

Novantinoe lezamai Santos-Silva & Hovore, 2007a: 599, figs. 33, 59; Santos-Silva & Martins, 2010: 194, fig. 270; Monné *et al.,* 2017: 87; Botero & Almeida, 2019: 50; Botero & Gutiérrez, 2020: 9; Monné, 2023: 253.

Holotype: ♀ "HOLOTYPE // ECUADOR, Napo Pr. / Napo-Galeras, km 1-2 / 02 Oct 1987 / F.T. Hovore, coll. // *Novantinoe* / *lezamai* / Santos-Silva / & Hovore // MZSP 40834".

Paratype: ♀ "PARATYPE // ECUADOR, Napo Pr. / Napo-Galeras Rd., km 2 / 10 Sept 2000 / F.T. Hovore, coll. // new // *Novantinoe* / *lezamai* / Santos-Silva / & Hovore // MZSP 40835".

Novantinoe lingafelteri Santos-Silva & Hovore, 2007 (Fig. 21D-F)

Novantinoe lingafelteri Santos-Silva & Hovore, 2007a: 583, figs. 15, 45; Lingafelter *et al.,* 2014: 90, figs. 99e, f; Botero & Almeida, 2019: 51; Monné, 2023: 253.

Paratype: ♀ "PARATYPE // PANAMA Colon Pr. / Fort Sherman / 9°17'N 79°59'W / 2 June 2001 / leg. F. Odegaard // On Dendropanax arboreus // CER 91 // MZSP 40829 // *Novantinoe* / *lingafelteri* / Santos-Silva / & Hovore // MZSP 40829".

Novantinoe noguerai Santos-Silva & Le Tirant, 2016 (Fig. 21G-I)

Novantinoe noguerai Santos-Silva & Le Tirant, 2016: 300, figs. 8-11; Monné *et al.,* 2017: 87; Botero & Almeida, 2019: 51; Monné, 2023: 254.

Holotype: ♀ "HOLOTYPE // MEX; CHIAPAS / EL ROSARIO 1800 M / 2 VII 95 / CUROE HOPKINS // *Novantinoe* / *noguerai* / Santos-Silva & / Le Tirant // MZSP 40828".

Novantinoe payettei Santos-Silva & Le Tirant, 2016 (Fig. 22A-C)

Novantinoe payettei Santos-Silva & Le Tirant, 2016: 298, figs. 1-5; Monné *et al.,* 2017: 87; Botero & Almeida, 2019: 50; Monné, 2023: 254.

Holotype: ♂ "HOLOTYPE // NICARAGUA: JINO. / CERRO HORNOS / 1500M 4/VI/94 / ENCINO-PINO / LUZ HG. D. CUROE // *Novantinoe* / *payettei* / Santos-Silva & / Le Tirant // MZSP 40836".

Novantinoe rileyi Santos-Silva & Hovore, 2007 (Fig. 22D-F)

Novantinoe rileyi Santos-Silva & Hovore, 2007a: 576, figs. 29, 71; Santos-Silva & Martins, 2010: 209, fig. 283; Monné *et al.,* 2017: 87; Botero & Almeida, 2019: 51; Botero & Gutiérrez, 2020: 9; Monné, 2023: 254.

Holotype: ♀ "HOLÓTIPO // ECUADOR, Napo Pr. / Jatun Sacha Res. HQ / 27-30 Sept 1997 / F.T. Hovore, coll. // n. sp. keys to / [unintelligible] // *Novantinoe* / *rileyi* / Santos-Silva / & Hovore // MZSP 40826".

Paratype: ♂ "PARÁTIPO // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39'10"S 076°26'W / T.L. Erwin, *et. al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 5, / Sta. 5 Project MAXUS Lot 914 // *Novantinoe* / *rileyi* / Santos-Silva / & Hovore // MZSP 40827".

Novantinoe solisi Santos-Silva & Hovore, 2007 (Fig. 22G-I)

Novantinoe solisi Santos-Silva & Hovore, 2007a: 585, figs. 5, 20, 54; Swift *et al.,* 2010: 68; Monné *et al.,* 2017: 87; Botero & Almeida, 2019: 50; Monné, 2023: 255.

Holotype: ♂ "HOLÓTIPO // MZUSP / Adquirido / W. Zikán // COSTA RICA / F. NEVERMANN // TURRIALBA / 800 M / SLG. SCHILO // *Distenia* / ? // [unintelligible] // *Novantinoe* / *solisi* / Santos-Silva / & Hovore // MZSP 40808".

Paratype: ♂ "PARÁTIPO // ECUADOR: NAPO Res. Ethnica / Waorani, 1 km S. Onkone Gare / Camp, Trans. Ent. 9 Oct. 1994 / 220 m 00°39'10"S 076°26'W / T.L. Erwin, *et. al.* // Insecticidal fogging of mostly bare / green leaves, some with covering / of lichenous or bryophytic plants in / terre firme forest At Trans 5, / Sta. 5 Project MAXUS Lot 914 // *Novantinoe* / *rileyi* / Santos-Silva / & Hovore // MZSP 40827".

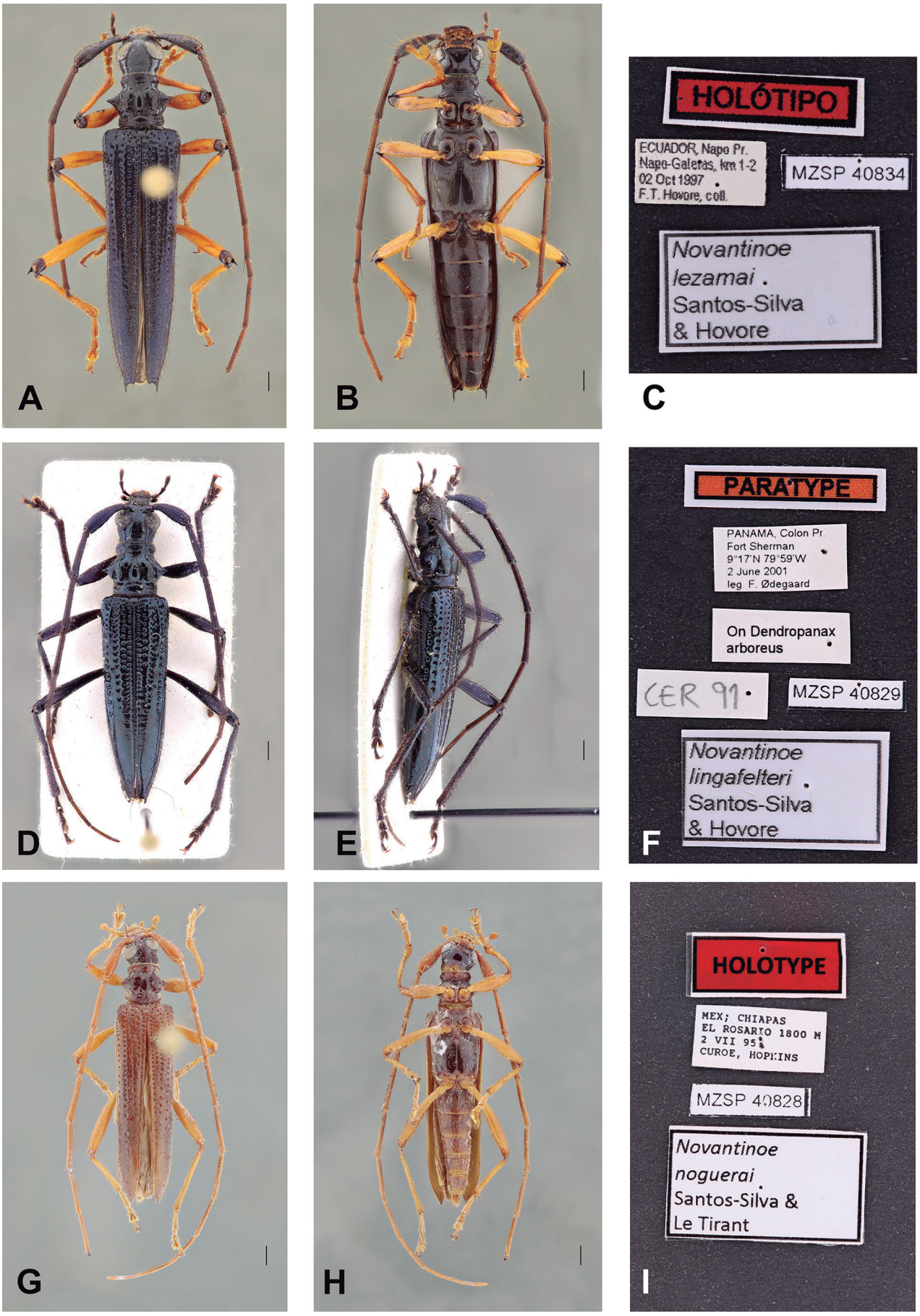

Figure 21. Disteniidae type specimens. (A-C) *Novantinoe lezamai* Santos-Silva & Hovore, 2007, female holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Novantinoe lingafelteri* Santos-Silva & Hovore, 2007, female paratype (D) Dorsal view (E) Ventral view (F) Original labels. (G-I) *Novantinoe noguerai* Santos-Silva & Le Tirant, 2016, male holotype (D) Dorsal view (E) Ventral view (F) Original labels. Scale bar: 1 mm.

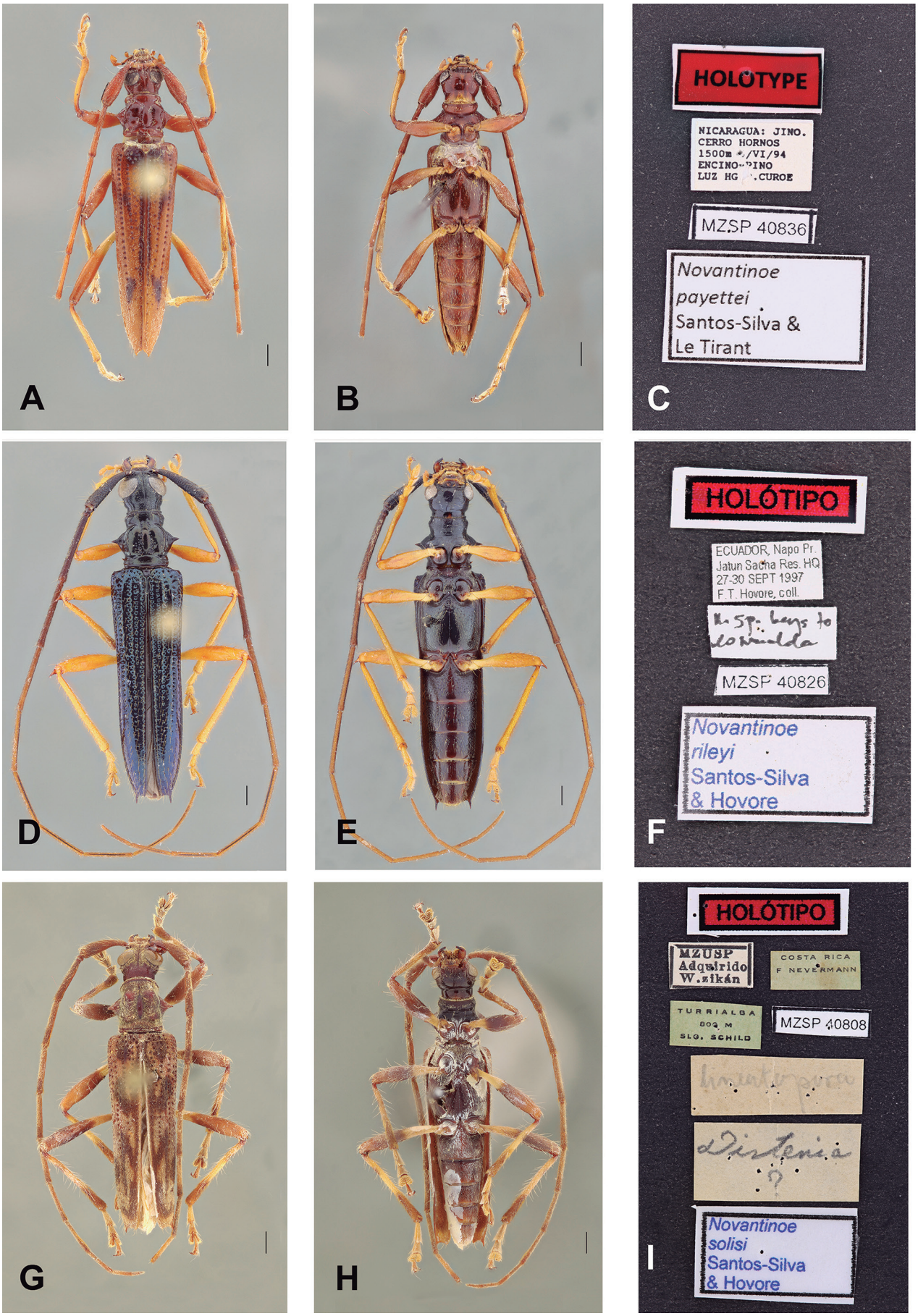

Figure 22. Disteniidae type specimens. (A-C) *Novantinoe payettei* Santos-Silva & Le Tirant, 2016, male holotype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Novantinoe rileyi* Santos-Silva & Hovore, 2007, female holotype (D) Dorsal view (E) Ventral view (F) Original labels. (G-H) *Novantinoe solisi* Santos-Silva & Hovore, 2007, male holotype (D) Dorsal view (E) Ventral view (F) Original labels. Scale bar: 1 mm.

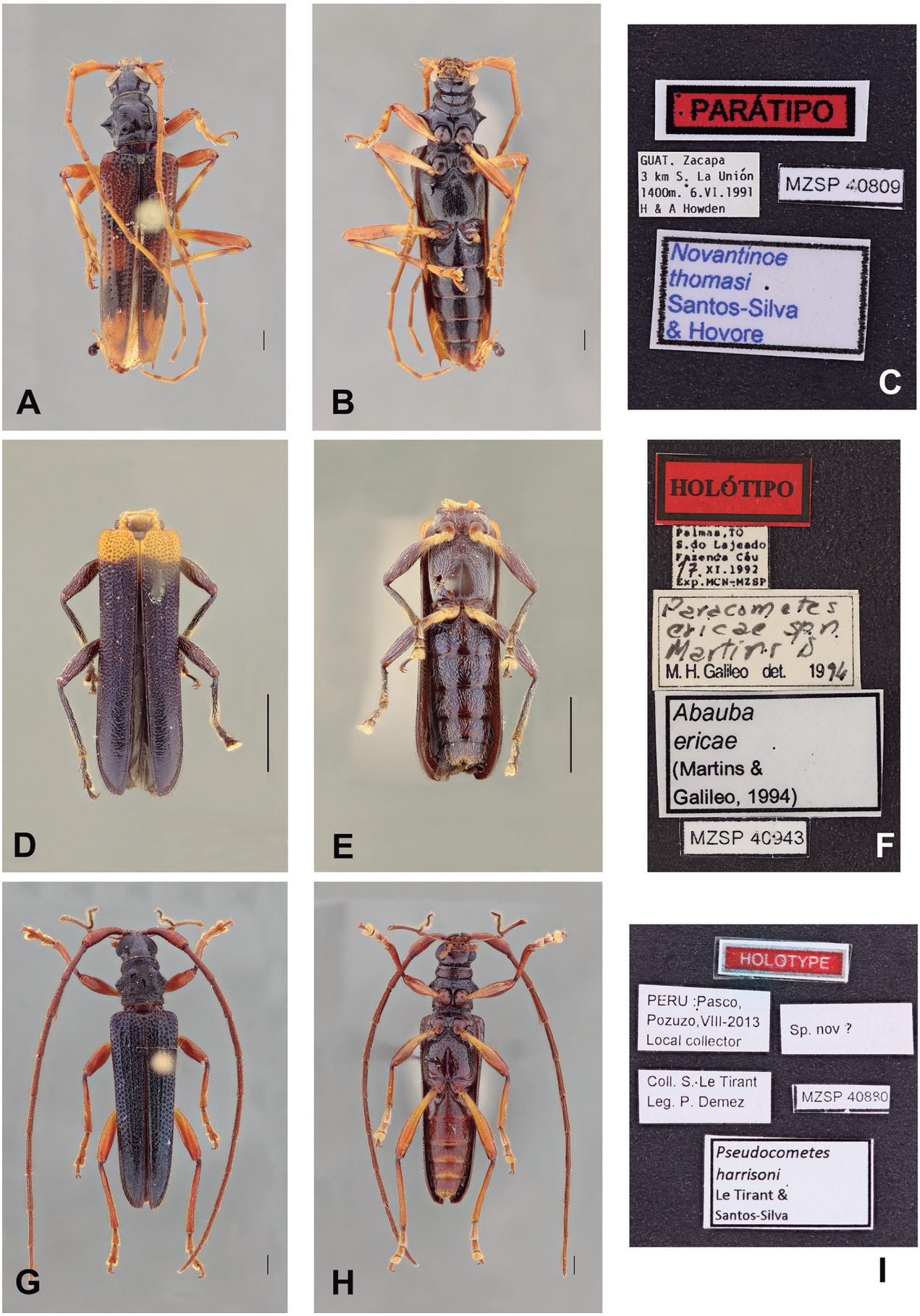

Figure 23. Disteniidae type specimens. (A-C) *Novantinoe thomasi* Santos-Silva & Hovore, 2007, female paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Paracometes ericae* Martins & Galileo, 1994, female holotype (D) Dorsal view (E) Ventral view (F) Original labels. (G-H) *Pseudocometes harrisoni* Le Tirant & Santos-Silva, 2014, male holotype (G) Dorsal view (H) Ventral view (I) Original labels. Scale bar: 1 mm.

Novantinoe thomasi Santos-Silva & Hovore, 2007 (Fig. 23A-C)

Novantinoe thomasi Santos-Silva & Hovore, 2007a: 584, figs. 16, 44; Lingafelter *et al.*, 2014: 333, figs. 170i-j; Botero & Almeida, 2019: 50; Monné, 2023: 255.

Paratype: ♀ "PARÁTIPO // GUAT. Zacapa / 3 km S. La Unión / 1400 m. 6.VI.1991 / H & A Howden // *Novantinoe* / *thomasi* / Santos-Silva / & Hovore // MZSP 40809".

Paracometes ericae Martins & Galileo, 1994 (Fig. 23D-F)

Paracometes ericae Martins & Galileo, 1994: 80, fig. 2.
Cometes ericae; Santos-Silva & Martins, 2004: 147.
Abauba ericae; Santos-Silva & Tavakilian, 2009a: 20; Santos-Silva & Martins, 2010: 139, fig. 228; Martins, Galileo & Limeira-de-Oliveira, 2011: 276; Monné *et al.*, 2017: 85; Monné, 2023: 226.

Holotype: ♂ "HOLÓTIPO // Palmas, TO / S. do Lajeado / Fazenda Céu / 17.XI.1992 / Exp. MCN-MZSP // *Paracometes* / *ericae* sp. n. / Martins & / M.H. Galileo det. 1994 // *Abauba* / *ericae* / (Martins & / Galileo, 1994) // MZSP 40943".

Current combination: *Abauba ericae*.

Pseudocometes harrisoni Le Tirant & Santos-Silva, 2014 (Fig. 23G-I)

Pseudocometes harrisoni Le Tirant & Santos-Silva, 2014a: 2, figs. 1-3; Le Tirant & Santos-Silva, 2014b: 2; Monné *et al.*, 2017: 87; Monné, 2023: 260.

Figure 24. Disteniidae type specimens. (A-C) *Villiersicometes absalom* Tavakilian & Santos-Silva, 2012, male paratype (A) Dorsal view (B) Ventral view (C) Original labels. (D-F) *Villiersicometes galileoae* Botero & Almeida, 2019, male paratype (D) Dorsal view (E) Ventral view (F) Original labels. Scale bar: 1 mm.

Holotype: ♂ "HOLOTYPE // PERU: Pasco, / Pozuzo, VIII-2013 / Local collector // Coll. S. Le Tirant / Leg. P. Demez / sp. nov. ? // *Pseudocometes* / *harrisoni* / Le Tirant & / Santos-Silva // MZSP 40880".

Paratype: ♂ "PARÁTIPO // PERU: Pasco, / Pozuzo, VIII-2013 / Local collector // Coll. S. Le Tirant / Leg. P. Demez / sp. nov. ? // *Pseudocometes* / *harrisoni* / Le Tirant & / Santos-Silva // MZSP 40881".

Villiersicometes absalom Tavakilian & Santos-Silva, 2012 (Fig. 24A-C)

Villiersicometes absalom Tavakilian & Santos-Silva, 2012: 1, 2 figs.; Dalens, 2013: 3; Morvan & Roguet, 2013: 39, fig. 80; Monné, 2023: 258.

Paratype: ♂ "PARATYPE // Haute Courcibo (DZ EDF) / 16 juillet 1990 GUYANE / Piégeage lumineux / Jean-Marie BALOUP leg. // *Villiersicometes* / *absalom* / Tavakilian & / Santos-Silva // MZSP 40873".

Villiersicometes galileoae Botero & Almeida, 2019 (Fig. 24D-F)

Villiersicometes galileoae Botero & Almeida, 2019: 53, figs. 33-35; Monné, 2023: 258.

Paratypes (2): ♂ "PARATYPE // *Villiersicometes galileoae* / sp. nov. / Des: Botero, J.P. & Almeida, L.M. 2018 // COLECAO / CAMPOS SEABRA // Parque Sooretama / LINHARES E. Santo / Brasil X.1963 / F.M. Oliveira // DZUP / 469258 // MZSP 60564". ♂ "PARATYPE // *Villiersicometes galileoae* / sp. nov. / Des: Botero, J.P. & Almeida, L.M. 2018 // COLECAO / CAMPOS SEABRA // Parque Sooretama / LINHARES E. Santo / Brasil X.1963 / F.M. Oliveira // DZUP / 469260 // MZSP 60565" (Fig. 24D-F).

AUTHORS' CONTRIBUTIONS: JPB, ASS: Photographs; JPB; SC, ASS: Conceptualization, Writing – review & editing; Methodology, Writing – original draft, Visualization, Investigation. All authors actively participated in the discussion of the results and they reviewed and approved the final version of the paper.
CONFLICT OF INTEREST: Authors declare there are no conflicts of interest.
FUNDING INFORMATION: JPB: post-doctoral fellow from Fundação de Amparo à Pesquisa do Estado de São Paulo" (FAPESP) (process number 2017/178980).

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Published with the financial support of the "Programa de Apoio às Publicações Científicas Periódicas da Universidade de São Paulo"