

自然誌資料集

No. 3

千葉県産コケ植物標本

(1) 茎葉状タイ類

古木 達郎

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千葉県立中央博物館

Natural History Data and Collection No. 3

Bryophyte Specimens **Collected in Chiba-ken, Central Japan** **(1) Leafy Liverworts**

By Tatsuwo Furuki

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千葉県産コケ植物標本 (1) 茎葉状タイ類

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はじめに

千葉県のコケ植物タイ類・ツノゴケ類に関する研究は 19 世紀後半に始まる (古木・中村, 1995). 当初は採集から研究までを欧米人が行っていたが, 20 世紀初頭, 維管束植物の日本人研究者がコケ植物も採集するようになり, 標本の同定を欧州の研究者に依頼した結果, 多くの新種が記載された. これらの中に, 千葉県産の標本をタイプとする種もあり, 千葉県産タイ類・ツノゴケ類に関する最初の研究となった. Stephani (1897) はタイ類の *Frullania makinoana* Steph. (= *F. moniliata* (Reinw., Blume & Nees) Mont. シダレヤスデゴケ) とツノゴケ類の *Anthoceros communis* Steph. (= *Phaeoceros carolinianus* (Michx.) Prosk. ニワツノゴケ), *Anthoceros miyabeanus* Steph. (= *Folioceros fuciformis* (Mont.) Bharadw. ミヤベツノゴケ) の 3 種を新種記載した. また, Schiffner (1899) は *Riccardia miyakeana* Schiffn. (= *Riccardia latifrons* (Lindb.) Lindb. var. *miyakeana* (Schiffn.) Furuki ミヤケテングサゴケ) を記載した. 1909 年には *Dendroceros rugulosus* Steph. が清澄山から新種記載されている (Stephani, 1909). 1950 年代になり, 日本人による研究が行われるようになった. 特に, 南房総や清澄山には多くの研究者が訪れ, 興味深いコケ植物が報告されている (井上, 1955, 1956, 1960). この頃, 千葉県の維管束植物を研

究していた浅野貞夫は, コケ植物も採集し, 標本の同定を日本人研究者に依頼し, その結果を「千葉県の蘚苔植物」としてまとめた (浅野, 1975). 浅野による最も古いタイ類の標本は 1940 年 4 月 16 日に鴨川市清澄山において採集された. しかし, これ以前 1941 年 3 月 30 日に池上義信によって鴨川市清澄山で採集された標本が浅野によって同定されており, 当館に保存された. この標本が当館の所蔵する最も古い千葉県産タイ類標本である.

1989 年 2 月の当館の開館に先立ち, 1985 年に千葉県自然誌資料調査会が発足し, 県内に散在していた標本の収集と新たな標本の採集が始まり, 1985 年から 1996 年までに 987 点のタイ類・ツノゴケ類の標本が収集され, 当館に収蔵された. 開館後, 全県的な調査研究が本格的に進められた. また, 市町等による自然環境現況調査等も実施され, 鋸山 (中村ほか, 1990), 富山及び伊予ヶ岳 (中村・須賀, 1993), 市原市 (古木, 1994), 当館生態園 (中村ほか, 1994), 千葉市 (須賀ほか, 1996), 佐倉市 (古木, 1999a), 袖ヶ浦市 (川名・古木, 1997), 下総台地 (古木, 1999b), 東金市 (古木・高宮, 2002), 清和県民の森 (古木ほか, 2004), 南房総湾岸地域 (Higuchi & Furuki, 2006), 白井市 (古木, 2009) などのコケ植物が報告された. この間, 1995 年には文献に引用されている千葉県産コケ植物目録が初めてまとめられ (古木・中村, 1995), 1998 年 (古木, 1998) と 2002 年 (古木,

2002) に改訂された。その後、当館の市民研究員によって習志野市 (金子ほか, 2009), 船橋市 (金子ほか, 2011), 市川市 (金子ほか, 2014), 野田市 (内海・古木, 2018), 浦安市 (古木ほか, 2019) などが調べられた。また、当館生態園の再調査が実施され (古木, 2021), 更に重点研究によって清澄山のコケ植物がまとめられた (古木, 2017)。これらの研究により、現在までに約 5,000 点のタイ類・ツノゴケ類の標本が収蔵された。今回はその中から 2022 年 3 月末までに登録された茎葉状タイ類を掲載した。

記述方法

和名と学名、分類体系は片桐・古木 (2018) に準じ、変更されているものは最新の論文及び Missouri Botanical Garden (2022) に従った。配列は綱の中では科名、属名、種名のアルファベット順とした。学名、和名に続き、調査地 (千葉県メッシュ番号を < > 内に示した)、市町村名、標高、生育基物、採集年月日、採集者名、採集者の標本番号、千葉県立中央博物館の標本登録番号 (CBM-BB- 番号) を示した。なお、千葉県メッシュ番号は千葉県メッシュマップ (千葉県立中央博物館, 1990) の番号で示した。

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付録. 収蔵標本リスト

Marchantiophyta ゼニゴケ植物門 (Hepaticae タイ類)
Haplomitriopsida Stotler & Crand.-Stotl. コマチゴケ綱

Haplomitriaceae コマチゴケ科

***Haplomitrium mnioides* (Lindb.) R.M.Schust. コマチゴケ**

<4028> 東金市, 30 m elev., on soil, 1985 Sept. 1, coll. H.Takamiya no. 85067 (CBM-BB-4242); 1989 May 28, coll. H.Takamiya no. 89022 (CBM-BB-4698); 140 m elev., on rock cliff, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24514 (CBM-BB-39431). <6352> 君津市, 185 m elev., on soil, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24553 (CBM-BB-39470). <6901> 鴨川市, 250 m elev., on decaying log, 2019 Feb. 27, coll. T.Furuki no. 25260h (CBM-BB-41743); 300 m elev., on soil, 2000 Mar. 24, coll. T.Furuki no. 16311 (CBM-BB-25294). <不明> 鴨川市, 1997 Apr. 17, coll. T.Furuki no. 13499 (CBM-BB-23985).

Jungermanniopsida Stotter & Crand.-Stotl. ツボミゴケ綱
Jungermanniidae Engel. ツボミゴケ亜綱

Acrobolbaceae チチブイチョウゴケ科

***Lethocolea naruto-toganensis* Furuki モグリゴケ**

<3693> 東金市, 5 m elev., on sand, 2016 Jan. 27, coll. T.Furuki no. 24023 (CBM-BB-38140); 10 m elev., on sandy soil, 2002 Dec. 13, coll. T.Furuki no. 18022 (CBM-BB-25721).

Adelanthaceae アキウロコゴケ科

***Syzygiella autumnalis* (DC.) K. Feldberg, Váňa, Hentschel & J. Heinrichs (= *Jamesoniella autumnalis* (DC.) Steph.) アキウロコゴケ**

<5187> 睦沢町, 70 m elev., on clay, 1991 July 8, coll. H.Takamiya no. 91018 (CBM-BB-9808).

Calypogeiaceae ツキヌキゴケ科

***Apertifolia arguta* (Nees & Mont.) Troitzk., Bakalin & Maltseva (= *Calypogeia arguta* Nees & Mont.) チャボホラゴケモドキ**

<0583> 野田市, 12 m elev., on soil, 2015 May 1, coll. Y.Utsumi no. 150501-18 (CBM-BB-38325); 2015 May 1, coll. Y.Utsumi no. 150501-20 (CBM-BB-38327); 14 m elev., on soil, 2016 Mar. 16, coll. Y.Utsumi no. 160316-8-2 (CBM-BB-39265); 15 m elev., on soil, 2014 Dec. 24, coll. Y.Utsumi no. 141224-15 (CBM-BB-37715). <1687> 市川市, 15 m elev., on soil, 2012 Dec. 5, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100886 (CBM-BB-35736). <1687> 市川市, 20 m elev., on soil, 2012 June 21, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100767 (CBM-BB-35618); 2012 Nov. 8, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100825 (CBM-BB-35675). <1693> 市川市, 15 m elev., on soil, 2011 June 30, coll. H.Kaneko & K.Kaneko no. 100325 (CBM-BB-35186). <1697> 市川市, 10 m elev., on soil, 2012 Nov. 8, coll. T.Furuki, H.Kaneko & K.Kaneko no. 23198 (CBM-BB-35844). <1716> 南房総市, 20 m elev., on soil, 2005 Nov. 22, coll. T.Furuki no. 20937 (CBM-BB-30313). <1753> 南房総市, 25 m elev., on soil, 2005 Dec. 14, coll. T.Furuki no. 21011 (CBM-BB-30387). <1758> 白井市, 20 m elev., on trunk, 2007 Feb. 5, coll. T.Furuki no. 21539 (CBM-BB-31604). <1766> 船橋市, 20 m elev., on soil, 2009 Nov. 26, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090503 (CBM-BB-33872), 090535 (CBM-BB-33904). <1776> 船橋市, 20 m elev., on soil, 2010 Mar. 22, coll. H.Kaneko & K.Kaneko no. 090718 (CBM-BB-34080). <2264> 東庄町, 50 m elev., on boulder, 1987 Aug. 25, coll. H.Takamiya no. 87074 (CBM-BB-4560). <2402> 市川市, 20 m elev., on soil, 2010 Dec. 9, coll. H.Kaneko & K.Kaneko no. 100057 (CBM-BB-34921). <2427> 市川市, 20 m elev., on soil, 2011 Jan. 03, coll. H.Kaneko & K.Kaneko no. 100121 (CBM-BB-34985). <2436> 市川市, 20 m elev., on soil, 2012 May 5, coll. H.Kaneko & K.Kaneko no. 100618 (CBM-

BB-35472). <2791> 佐倉市, 40 m elev., on soil, 1999 Sept. 9, coll. T.Furuki no. 16004 (CBM-BB-24916). <2838> 横芝光町, 7 m elev., on soil, 1996 Jan. 5, coll. T.Furuki no. 12807 (CBM-BB-21751). <3008> 銚子市, 30 m elev., on soil, 1989 Sept. 29, coll. T.Furuki no. 9357 (CBM-BB-13547); 1989 Sept. 29, coll. T.Furuki no. 9375 (CBM-BB-13565). <3413> 四街道市, 15 m elev., on soil, 2009 Feb. 9, coll. Y.Kasai no. 20090209-07 (CBM-BB-42482), no. 20090209-08 (CBM-BB-42483); 20 m elev., on soil, 1994 Nov. 24, coll. H.Suga no. 3937 (CBM-BB-19144). <3457> 千葉市, 30 m elev., on soil, 1994 Dec. 7, coll. H.Suga no. 4004 (CBM-BB-19190). <3645> 山武市, 50 m elev., on soil, 1985 Dec. 18, coll. H.Takamiya no. 85081 (CBM-BB-4256). <3693> 山武市, 5 m elev., on sand, 2016 Jan. 27, coll. T.Furuki no. 24021 (CBM-BB-38138); 7 m elev., on sandy soil, 1994 Dec. 2, coll. H.Suga no. 3943 (CBM-BB-19229); 1994 Dec. 2, coll. T.Furuki no. 11805 (CBM-BB-19247). <3908> 千葉市, 30 m elev., on soil, 1993 Dec. 17, coll. H.Suga no. 3573 (CBM-BB-16706); 50 m elev., on soil, 1993 Dec. 17, coll. T.Nakamura no. 93055 (CBM-BB-16777); 2013 June 6, coll. T.Furuki no. 23276 (CBM-BB-36970). <4028> 東金市, 30 m elev., on soil, 1989 May 28, coll. H.Takamiya no. 89017 (CBM-BB-4662). <4029> 東金市, 20 m elev., on soil, 1989 Aug. 30, coll. H.Takamiya no. 89135 (CBM-BB-4668). <4036> 東金市, 20 m elev., on soil, 1991 Feb. 2, coll. T.Furuki no. 9776 (CBM-BB-17880). <4299> 袖ヶ浦市, 20 m elev., on soil, 1999 Nov. 8, coll. T.Furuki no. 16243 (CBM-BB-24937). <4940> 袖ヶ浦市, 50 m elev., on soil, 1996 Aug. 8, coll. T.Furuki no. 13149 (CBM-BB-23230). <5045> 市原市, 80 m elev., on soil, 1987 July 12, coll. H.Takamiya no. 87072 (CBM-BB-4488). <5135> 睦沢町, 25 m elev., on soil, 1992 Nov. 1, coll. H.Takamiya no. 92152 (CBM-BB-13391). <5194> 睦沢町, 60 m elev., on soil, 1991 July 8, coll. H.Takamiya no. 91003 (CBM-BB-9793). <5196> 睦沢町, 65 m elev., on soil, 1992 Sept. 27, coll. H.Takamiya no. 92063 (CBM-BB-13302). <5768> 大多喜町, 100 m elev., on soil, 1987 July 19, coll. H.Takamiya no. 87073 (CBM-BB-4520). <5778> 大多喜町, 80 m elev., on soil, 1994 Dec. 16, coll. H.Takamiya no. 94153 (CBM-BB-18757). <5792> 市原市, 100 m elev., on soil, 1989 Apr. 13, coll. T.Furuki no. 8006 (CBM-BB-17367); 1989 Apr. 13, coll. T.Furuki no. 8018 (CBM-BB-17379). <5802> 睦沢町, 80 m elev., on soil, 1987 June 28, coll. H.Takamiya no. 87071 (CBM-BB-4466). <6290> 君津市, 200-300 m elev., on soil, 1993 Dec. 21, coll. T.Furuki no. 11597 (CBM-BB-16842). <6301> 市原市, 120 m elev., on soil, 1992 Dec. 18, coll. T.Furuki no. 11304 (CBM-BB-11660). <6329> 大多喜町, 100 m elev., on soil, 1993 Nov. 23, coll. H.Takamiya no. 93156 (CBM-BB-18121). <6341> 大多喜町, 335 m elev., on soil, 1993 Mar. 14, coll. H.Takamiya no. 93019 (CBM-BB-17985). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no. 8225 (CBM-BB-17583). <6710> 富津市, 175 m elev., on soil, 1989 Apr. 20, coll. T.Furuki no. 8197 (CBM-BB-17558). <6901> 鴨川市, 250 m elev., on rotten log, 2019 Feb. 27, coll. T.Furuki no. 25260c (CBM-BB-41738); 200 m elev., on soil, 1989 Apr. 13, coll. T.Furuki no. 8126 (CBM-BB-17487). <7155> 南房総市, 80 m elev., on tuff cliff, 2001 May 17, coll. T.Furuki no. 16584 (CBM-BB-25382).

***Calypogeia angusta* Steph. (= *C. trichomanes* auct. non (L.) Corda = *C. azurea* auct. non Stotler & Crotz.) ツキヌキゴケ**

<3924> 千葉市, 18 m elev., on rotten log, 1993 Feb. 6, coll. H.Suga no. 3084 (CBM-BB-11764). <6169> 君津市, 140 m elev., 1994 Nov. 18, coll. T.Furuki no. 11777 (CBM-BB-21319). <6278> 君津市, 185 m elev., on rotten log, 2016 Mar. 3, coll. T.Furuki no. 24096 (CBM-BB-38553). <6279> 君津市, 230 m elev., on rotten log of Cryptomeria, 2015 Mar. 11, coll. T.Furuki no. 23775 (CBM-BB-37565). <6301> 鴨川市, 200 m elev., on soil, 1989 Apr. 13, coll. T.Furuki no. 8074 (CBM-BB-17435). <6352> 君津市, 195 m elev., on fallen log, 2017 Mar. 7, coll.

H.Kiguchi & T.Furuki no. 24548 (CBM-BB-39465); on decaying log, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24558 (CBM-BB-39475).

***Calypogeia asakawana* S.Hatt. ex Inoue アサカワホラゴケモドキ**

<2648> 佐倉市, 20 m elev., on soil, 1999 Nov. 1, coll. T.Furuki no. 16242 (CBM-BB-24936). <4299> 袖ヶ浦市, 30 m elev., on sand, 1996 Sept. 16, coll. T.Kawana no. 96091618 (CBM-BB-22738), 96091621 (CBM-BB-22741), 96091627 (CBM-BB-22747); 40 m elev., on soil, 2004 Sept. 14, coll. T.Furuki no. 19396 (CBM-BB-29082); 43 m elev., on soil, 2001 Dec. 7, coll. T.Furuki no. 17048 (CBM-BB-25638).

***Calypogeia japonica* Steph. (= *C. tsukushiensis* Amakawa) ツクシホラゴケモドキ**

<2912> 匝瑳市, 20 m elev., on soil, 1974 June 1, coll. T.Nakamura no. 88 (CBM-BB-590). <4005> 東金市, 60 m elev., on soil, 1990 July 23, coll. H.Takamiya no. 90080 (CBM-BB-4819). <4027> 東金市, 40 m elev., on soil, 1990 July 15, coll. H.Takamiya no. 90063 (CBM-BB-4803). <4971> 袖ヶ浦市, 50 m elev., on decayed *Cryptomeria japonica*, 1996 Aug. 9, coll. T.Kawana no. 96080904 (CBM-BB-22526). <5187> 睦沢町, 65 m elev., on rotten logs, 1991 July 8, coll. H.Takamiya no. 91012 (CBM-BB-9802). <5561> 富津市, 20 m elev., on clay, 1997 Mar. 25, coll. T.Kawana no. 97032515 (CBM-BB-24124). <5747> 大多喜町, 150 m elev., on soil, 1994 Nov. 27, coll. H.Takamiya no. 94121 (CBM-BB-18725). <5758> 大多喜町, 90 m elev., on soil, 1994 Nov. 27, coll. H.Takamiya no. 94134 (CBM-BB-18738). <6195> 富津市, 80 m elev., on cliff, 1997 Mar. 25, coll. T.Kawana no. 97032539 (CBM-BB-24141). <6250> 君津市, 200-300 m elev., on soil, 1993 Dec. 22, coll. T.Furuki no. 11648 (CBM-BB-16893). <6251> 君津市, 150 m elev., on rock cliff, 2002 Nov. 18, coll. T.Kawana no. 02111813 (CBM-BB-27528). <6301> 市原市, 120 m elev., on rock cliff, 1992 Sept. 8, coll. T.Furuki no. 11160 (CBM-BB-11550). <6373> 大多喜町, 310 m elev., on soil, 1993 Dec. 24, coll. H.Takamiya no. 93070 (CBM-BB-18036). <6901> 鴨川市, 200 m elev., on rock cliff, 1990 Apr. 1, coll. T.Furuki no. 8566 (CBM-BB-17854). <6902> 鴨川市, 290 m elev., on decaying log, 1996 Mar. 29, coll. H.Takamiya no. 96043 (CBM-BB-22872). <6904> 鴨川市, 130 m elev., on soil, 1995 Mar. 15, coll. H.Takamiya no. 95008 (CBM-BB-20991). <6913> 鴨川市, 90 m elev., on ledge, 1996 Dec. 10, coll. H.Takamiya no. 96096 (CBM-BB-22925). <6924> 鴨川市, 140 m elev., on soil, 1995 Mar. 15, coll. H.Takamiya no. 95045 (CBM-BB-21028). <6926> 鴨川市, 70 m elev., on soil, 1995 Dec. 14, coll. H.Takamiya no. 95194 (CBM-BB-21176). <6956> 鴨川市, 90 m elev., on soil, 1996 Dec. 14, coll. H.Takamiya no. 96154 (CBM-BB-22983).

***Calypogeia tosana* (Steph.) Steph. トサホラゴケモドキ**

<0469> 野田市, 13 m elev., on soil, 2016 Apr. 8, coll. Y.Utsumi & T.Furuki no. 24248 (CBM-BB-38705). <0479> 野田市, 12.8 m elev., on soil, 2016 Apr. 8, coll. Y.Utsumi no. 160408-33 (CBM-BB-39323); 2016 Apr. 8, coll. Y.Utsumi no. 160408-41 (CBM-BB-39331). <1687> 市川市, 25 m elev., on stump, 2012 Dec. 5, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100885 (CBM-BB-35735). <2436> 市川市, 15 m elev., on soil, 2012 May 5, coll. H.Kaneko & K.Kaneko no. 100603 (CBM-BB-35457); 20 m elev., on soil, 2012 May 5, coll. H.Kaneko & K.Kaneko no. 100629 (CBM-BB-35483). <2439> 船橋市, 20 m elev., on soil, 2009 Mar. 25, coll. H.Kaneko & K.Kaneko no. 090240 (CBM-BB-33609). <3008> 銚子市, 30 m elev., on decaying log, 1989 Sept. 29, coll. T.Furuki no. 9411 (CBM-BB-13601). <3368> 千葉市, 10 m elev., on soil, 1976 Mar. 8, coll. T.Nakamura no. 751 (CBM-BB-1334). <3413> 四街道市, 24 m elev., on soil, 1994 Nov. 24, coll. H.Suga no. 3904 (CBM-BB-19113), 3909 (CBM-BB-19118), 3912 (CBM-BB-19121). <3423> 四街道市, 30 m elev., on soil, 1975 Dec. 14, coll. T.Nakamura no. 3989 (CBM-BB-1172), 4035 (CBM-BB-1218). <3540> 佐倉市, 40 m elev., on soil, 1999 Nov. 22, coll. T.Furuki no. 16297 (CBM-BB-24990). <3908> 千葉市, 53 m elev., on soil, 2015 Apr. 25, coll. T.Furuki

no. 23881 (CBM-BB-37854). <4026> 東金市, 50 m elev., on soil, 1989 May 14, coll. H.Takamiya no. 89009 (CBM-BB-4586). <4036> 東金市, 20 m elev., on decaying log, 1989 Sept. 17, coll. H.Takamiya no. 89193 (CBM-BB-4742). <4082> 千葉市, 70 m elev., on base of trunk of *Cryptomeria japonica*, 1995 Aug. 26, coll. H.Suga no. 4133 (CBM-BB-20884). <4372> 袖ヶ浦市, 50 m elev., on soil, 1996 Sept. 24, coll. T.Furuki no. 13256 (CBM-BB-23338). <5045> 市原市, 80 m elev., on soil, 1987 July 12, coll. H.Takamiya no. 87075 (CBM-BB-4489). <5135> 睦沢町, 25 m elev., on rotten log, 1992 Nov. 1, coll. H.Takamiya no. 92151 (CBM-BB-13390). <5145> 睦沢町, 40 m elev., on clay, 1992 May 31, coll. H.Takamiya no. 92007 (CBM-BB-13246). <5182> 睦沢町, 90 m elev., on soil, 1992 Aug. 30, coll. H.Takamiya no. 92041 (CBM-BB-13280). <5194> 睦沢町, 60 m elev., on base of trunk, 1991 July 8, coll. H.Takamiya no. 91004 (CBM-BB-9794). <5196> 睦沢町, 65 m elev., on decaying log, 1992 Sept. 27, coll. H.Takamiya no. 92070 (CBM-BB-13309). <5550> 富津市, 20 m elev., on soil, 1985 July 27, coll. T.Kawana no. 183 (CBM-BB-480). <5747> 大多喜町, 160 m elev., on rock, 1994 Nov. 27, coll. H.Takamiya no. 94120 (CBM-BB-18724). <5756> 大多喜町, 200 m elev., on soil, 1994 Dec. 16, coll. H.Takamiya no. 94178 (CBM-BB-18782). <5768> 大多喜町, 100 m elev., on soil, 1987 July 19, coll. H.Takamiya no. 87076 (CBM-BB-4521). <5776> 大多喜町, 180 m elev., on soil, 1994 Dec. 16, coll. H.Takamiya no. 94157 (CBM-BB-18761). <5778> 大多喜町, 105 m elev., on soil, 1994 Dec. 16, coll. H.Takamiya no. 94145 (CBM-BB-18749). <5782> 市原市, 100 m elev., on soil, 2013 June 27, coll. T.Furuki no. 23284 (CBM-BB-36978). <5790> 市原市, 200 m elev., on soil, 1992 Nov. 13, coll. T.Furuki no. 11226 (CBM-BB-11582). <5790> 市原市, 200 m elev., on soil, 1992 Nov. 13, coll. T.Furuki no. 11235 (CBM-BB-11591). <5791> 市原市, 200 m elev., on soil, 1991 June 5, coll. H.Suga no. 2317 (CBM-BB-9932). <5792> 市原市, 100 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8026 (CBM-BB-17387). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17787 (CBM-BB-28056), no. 17815 (CBM-BB-28086), no. 17816 (CBM-BB-28087); 200 m elev., on rock, 1997 Mar. 26, coll. T.Furuki no. 13409 (CBM-BB-23895); 1997 Mar. 26, coll. T.Furuki no. 13422 (CBM-BB-23908). <6251> 君津市, 150 m elev., on soil, 2002 Nov. 29, coll. T.Kawana no. 02112948 (CBM-BB-27586). <6260> 君津市, 150250 m elev., on rocks, 1976 Sept. 5, coll. T.Nakamura no. 1277 (CBM-BB-1532). <6279> 君津市, 240 m elev., on rock cliff, 2015 Mar. 11, coll. T.Furuki no. 23721 (CBM-BB-37511). <6286> 君津市, 165 m elev., on soil, 2016 Mar. 28, coll. T.Furuki no. 24219 (CBM-BB-38676). <6301> 市原市, 85 m elev., on rock cliff, 2014 Sept. 12, coll. A.Tomitani & T.Furuki no. 23586 (CBM-BB-37316); on soil, 2015 June 6, coll. T.Furuki no. 23889 (CBM-BB-37862); 120 m elev., on soil, 2009 Nov. 8, coll. T.Furuki no. 22164 (CBM-BB-35895); 200 m elev., on decaying log, 1989 Apr. 13, coll. T.Furuki no. 8089 (CBM-BB-17450). <6328> 大多喜町, 130 m elev., on soil, 1993 Nov. 23, coll. H.Takamiya no. 93168 (CBM-BB-18133). <6329> 大多喜町, 110 m elev., on soil, 1993 Nov. 23, coll. H.Takamiya no. 93155 (CBM-BB-18120). <6341> 大多喜町, 330 m elev., on soil, 1993 Mar. 14, coll. H.Takamiya no. 93020 (CBM-BB-17986). <6352> 君津市, 195 m elev., on soil, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24540 (CBM-BB-39457). <6380> 鴨川市, 210 m elev., on soil, 1995 Mar. 20, coll. H.Takamiya no. 95066 (CBM-BB-21049). <6393> 大多喜町, 250 m elev., on soil, 1988 June 19, coll. H.Takamiya no. 88078 (CBM-BB-4385). <6901> 鴨川市, 200 m elev., on soil, 1990 Apr. 1, coll. T.Furuki no. 8563 (CBM-BB-17851). <6911> 君津市, 275 m elev., on soil, 2015 Mar. 19, coll. T.Furuki no. 23848 (CBM-BB-37820); on rock cliff, 2015 Mar. 19, coll. T.Furuki no. 23850 (CBM-BB-37822); 280 m elev., on decaying log, 2015 Mar. 11, coll. T.Furuki no. 23698 (CBM-BB-37488). <6912> 鴨川市, 200 m elev., on soil, 1987 Aug. 3, coll. H.Takamiya no. 87077 (CBM-BB-4537). <6915> 鴨川市, 122 m elev., on rock cliff, 2016 Mar. 9, coll. T.Furuki no. 24136 (CBM-BB-38593); 140 m elev., on soil, 1995 Mar. 15, coll. H.Takamiya no. 95021 (CBM-BB-21004); 160 m elev., on soil, 1995 Mar. 28, coll. H.Takamiya no. 95095

(CBM-BB-21078). <6932> 鴨川市, 250 m elev., 1985 July 14, coll. H.Takamiya no. 85015 (CBM-BB-4190). <6956> 鴨川市, 70 m elev., on stone wall, 1996 Dec. 14, coll. H.Takamiya no. 96157 (CBM-BB-22986). <7700> 南房総市, 5 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18497 (CBM-BB-28197).

Cephaloziaceae ヤバネゴケ科

Albiellopsis parvifolia (Steph.) R.M.Schust. ツツバナゴケ

<4916> 袖ヶ浦市, 80 m elev., on soil, 1996 Aug. 29, coll. T.Furuki no. 13197 (CBM-BB-23278). <6279> 君津市, 218 m elev., on soil, 2016 Mar. 3, coll. T.Furuki no. 24069 (CBM-BB-38526).

Cephalozia otaruensis Steph. オタルヤバネゴケ

<1757> 白井市, 25 m elev., 2007 Feb. 26, coll. T.Furuki no. 21600 (CBM-BB-31665). <1774> 船橋市, 10 m elev., on soil, 2010 Jan. 6, coll. H.Kaneko & K.Kaneko no. 090606 (CBM-BB-33975). <2402> 市川市, 20 m elev., on soil, 2010 Dec. 9, coll. H.Kaneko & K.Kaneko no. 100059 (CBM-BB-34923). <2413> 市川市, 20 m elev., on soil, 2012 Jan. 6, coll. H.Kaneko & K.Kaneko no. 100415 (CBM-BB-35272). <3036> 旭市, 10 m elev., on clay, 1992 Aug., coll. T.Nakamura no. 30 (CBM-BB-17780). <4028> 東金市, 50 m elev., on decaying log, 1991 Feb. 2, coll. T.Furuki no. 9790 (CBM-BB-17894), on soil, 1991 Feb. 2, coll. T.Furuki no. 9796 (CBM-BB-17900). <4045> 大網白里市, 70 m elev., on clay, 1990 Nov. 10, coll. H.Takamiya no. 90228 (CBM-BB-4940). <4940> 袖ヶ浦市, 50 m elev., on soil, 1996 Aug. 8, coll. T.Furuki no. 13147 (CBM-BB-23228). <5082> 市原市, 80 m elev., on rock cliff, 1992 Dec. 4, coll. T.Furuki no. 11280 (CBM-BB-11636). <5145> 睦沢町, 40 m elev., on clay, 1992 May 31, coll. H.Takamiya no. 92008 (CBM-BB-13247). <5790> 市原市, 250 m elev., on soil, 1991 June 5, coll. T.Furuki no. 9798 (CBM-BB-11515). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17788 (CBM-BB-28057); 100 m elev., on trunk of *Cryptomeria*, 2003 Nov. 15, coll. T.Kawana no. 03111521 (CBM-BB-27810). <6169> 君津市, 140 m elev., on decaying log, 1994 Nov. 18, coll. T.Furuki no. 11776 (CBM-BB-21318); <6195> 富津市, 200 m elev., on rock, 1997 Mar. 26, coll. T.Furuki no. 13423 (CBM-BB-23909). <6241> 君津市, 80 m elev., on rock, 2003 Feb. 4, coll. T.Kawana no. 03020425 (CBM-BB-27718). <6250> 君津市, 100 m elev., on rock cliff, 2003 Nov. 18, coll. T.Kawana no. 03111820 (CBM-BB-27855); 100 m elev., on boulder, 2003 Nov. 18, coll. T.Kawana no. 03111842 (CBM-BB-27877). <6251> 君津市, 150 m elev., on fallen log, 2002 Nov. 29, coll. T.Kawana no. 02112918 (CBM-BB-27556). <6279> 君津市, 230 m elev., on rotten log of *Cryptomeria*, 2015 Mar. 11, coll. T.Furuki no. 23782 (CBM-BB-37572); 200 m elev., on fallen log, 1995 Mar. 2, coll. T.Furuki no. 12028A (CBM-BB-21578). <6280> 君津市, 180 m elev., on fallen log, 1996 Jan. 6, coll. T.Furuki no. 12817 (CBM-BB-21761). <6290> 君津市, 150 m elev., on base of trunk of *Cryptomeria*, 1993 Dec. 22, coll. T.Nakamura s.n. (CBM-BB-16990). <6301> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8082 (CBM-BB-17443). <6328> 大多喜町, 150 m elev., on decaying log, 1993 Nov. 23, coll. H.Takamiya no. 93169 (CBM-BB-18134). <6334> 大多喜町, 135 m elev., on rotten log, 1992 Dec. 16, coll. H.Takamiya no. 92209 (CBM-BB-17963). <6355> 大多喜町, 150 m elev., on decaying log, 1994 Nov. 3, coll. H.Takamiya no. 94088 (CBM-BB-18692). <6357> 大多喜町, 210 m elev., on decaying log, 1994 Dec. 16, coll. H.Takamiya no. 94069 (CBM-BB-18673). <6358> 大多喜町, 180 m elev., on cliff, 1993 Nov. 14, coll. H.Takamiya no. 93123 (CBM-BB-18088). <6381> 鴨川市, 210 m elev., on rotten log, 1995 Dec. 15, coll. H.Takamiya no. 95111 (CBM-BB-21094). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no. 8207 (CBM-BB-17565); on rock cliff, 1989 June 15, coll. T.Furuki no. 8250 (CBM-BB-17607). <6816> 鴨川市, 80 m elev., on boulder, 1974 Aug. 22, coll. S.Asano no. 17 (CBM-BB-324), S.Asano no. 23 (CBM-BB-329). <6901> 鴨川市, 250 m elev., on decaying log, 2005 June 14, coll. T.Furuki no. 19869 (CBM-BB-30261). <6902> 鴨川市, 290 m elev., on fallen log of *Cryptomeria japonica*, 1996 Mar.

29, coll. H.Takamiya no. 96030 (CBM-BB-22859). <6903> 鴨川市, 190 m elev., on rotten log, 1995 Dec. 22, coll. H.Takamiya no. 95147 (CBM-BB-21130). <6912> 鴨川市, 200 m elev., on rock, 1987 Aug. 3, coll. H.Takamiya no. 87099 (CBM-BB-4542). <6932> 鴨川市, 50 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12045 (CBM-BB-21596), 12052 (CBM-BB-21603). <7042> 勝浦市, 20 m elev., on cliff, 1997 Mar. 13, coll. T.Furuki no. 13386 (CBM-BB-23872).

Nowellia curvifolia (Dicks.) Mitt. フクロヤバネゴケ

<6381> 鴨川市, 210 m elev., on decaying log, 1995 Dec. 15, coll. H.Takamiya no. 95110 (CBM-BB-21093).

Odontoschisma denudatum (Mart.) Dumort. クチキゴケ

<5800> 睦沢町, 105 m elev., on rotten logs, 1991 Dec. 16, coll. H.Takamiya no. 91079 (CBM-BB-9846). <5803> 睦沢町, 60 m elev., on rotten log, 1991 Dec. 20, coll. H.Takamiya no. 91130 (CBM-BB-9889). <6250> 君津市, on rock, 1976 Dec. 18, coll. H.Takamiya no. 76043 (CBM-BB-4148). <6279> 君津市, 240 m elev., on rotten log of *Cryptomeria*, 2015 Mar. 11, coll. T.Furuki no. 23729 (CBM-BB-37519); 200 m elev., on decaying log, 1995 Mar. 2, coll. T.Furuki no. 12032 (CBM-BB-21583). <6297> 君津市, 325 m elev., on decaying log, 2016 Mar. 28, coll. T.Furuki no. 24199 (CBM-BB-38656). <6901> 鴨川市, 270 m elev., on decaying log, 1995 Mar. 28, coll. H.Takamiya no. 96024 (CBM-BB-22853); 200 m elev., on fallen log, 1989 Apr. 13, coll. T.Furuki no. 8116 (CBM-BB-17477), no. 8117 (CBM-BB-17478). <6902> 鴨川市, 290 m elev., on fallen log of *Chamaecyparis obtusa*, 1996 Mar. 29, coll. H.Takamiya no. 96029 (CBM-BB-22858).

Schiffneria hyalina Steph. シフネルゴケ

<6278> 君津市, 200 m elev., on base of trunks of *Cryptomeria*, 2016 Mar. 3, coll. T.Furuki no. 24112 (CBM-BB-38569). <6279> 君津市, 200 m elev., on decaying log, 1995 Mar. 2, coll. T.Furuki no. 12034 (CBM-BB-21585).

Cephaloziellaceae コヤバネゴケ科

Cephaloziella microphylla (Steph.) Douin コヤバネゴケ

<1774> 船橋市, 10 m elev., on soil, 2010 Jan. 6, coll. H.Kaneko & K.Kaneko no. 090607 (CBM-BB-33976). <2264> 東庄町, 60 m elev., on soil, 1987 Aug. 25, coll. H.Takamiya no. 87100 (CBM-BB-4563). <2504> 船橋市, 30 m elev., on soil, 2010 Apr. 24, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090764 (CBM-BB-34126). <2542> 船橋市, 20 m elev., on soil, 2009 Nov. 23, coll. H.Kaneko & K.Kaneko no. 090482 (CBM-BB-33851). <2553> 船橋市, 20 m elev., on soil, 2009 Nov. 12, coll. H.Kaneko & K.Kaneko no. 090435 (CBM-BB-33804). <3481> 千葉市, 20 m elev., on soil, 1990 Dec. 5, coll. T.Furuki s.n. (CBM-BB-16969); 1992 Sept. 19, coll. T.Furuki s.n. (CBM-BB-16975). <6280> 君津市, 180 m elev., on sandy soil, 1996 Jan. 6, coll. T.Furuki no. 12815 (CBM-BB-21759). <6298> 君津市, 315 m elev., on rock, 2016 Mar. 28, coll. T.Furuki no. 24196 (CBM-BB-38653). <6912> 鴨川市, 275 m elev., on stone wall, 1991 Dec. 2, coll. T.Furuki no. 9843 (CBM-BB-17904); 320 m elev., on stone wall, 1991 Sept. 29, coll. H.Suga no. 2472 (CBM-BB-9980). <7155> 南房総市, 30 m elev., on soil, 2001 May 17, coll. T.Furuki no. 16582 (CBM-BB-25380).

Cephaloziella spinicaulis Douin ウニバヤバネゴケ

<0469> 野田市, 13 m elev., on rock, 2016 Apr. 8, coll. Y.Utsumi & T.Furuki no. 24235 (CBM-BB-38692); <0479> 野田市, 12.8 m elev., on stone wall, 2016 Apr. 8, coll. Y.Utsumi no. 160408-15 (CBM-BB-39305); on rock, 2016 Apr. 8, coll. Y.Utsumi no. 160408-18 (CBM-BB-39308). <3475> 千葉市, 15 m elev., on trunk of *Robinia pseudoacacia*, 1995 July 25, coll. H.Suga no. 4056 (CBM-BB-20819); 1995 July 25, coll. H.Suga no. 4059 (CBM-BB-20822). <5811> 睦沢町, 95 m elev., on rotten log, 1990 Nov. 21, coll. H.Takamiya no. 90417 (CBM-BB-9780). <6389> 大多喜町, 230 m elev., on base of trunk, 1993 Nov. 14, coll. H.Takamiya no. 93140 (CBM-BB-18105). <6780> 南房総

市, 340 m elev., on soil, 2003 Mar. 5, coll. T.Furuki no. 18485 (CBM-BB-28185).

Frullaniaceae ヤスデゴケ科

***Frullania amplicrania* Steph. クロヤスデゴケ**

<6281> 君津市, 200 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88108 (CBM-BB-4345). <6368> 大多喜町, 180 m elev., on trunk of Diospyros, 1994 Dec. 23, coll. H.Takamiya no. 94086 (CBM-BB-18690). <6903> 鴨川市, 190 m elev., on ledge, 1995 Dec. 22, coll. H.Takamiya no. 95134 (CBM-BB-21117). <6912> 鴨川市, 275 m elev., on stone wall, 1991 Dec. 4, coll. T.Furuki no. 9847 (CBM-BB-17908).

***Frullania aoshimensis* Horik. アオシマヤスデゴケ**

<6267> 君津市, 100 m elev., on trunk, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24536 (CBM-BB-39453). <6922> 鴨川市, 115 m elev., on rotten log, 2016 Mar. 9, coll. T.Furuki no. 24122b (CBM-BB-39394); on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24567 (CBM-BB-39484).

***Frullania davurica* Hampe アカヤスデゴケ**

<6250> 君津市, on rock, 1976 Dec. 18, coll. H.Takamiya no. 76045 (CBM-BB-4150).

***Frullania densiloba* Steph. ex A.Evans ホソヤスデゴケ**

<6297> 君津市, 320 m elev., on trunk, 2019 Feb. 26, coll. T.Furuki no. 25258 (CBM-BB-41734).

***Frullania ericoides* (Nees) Mont. ミドリヤスデゴケ**

<0469> 野田市, 13.8 m elev., on rock, 2015 Dec. 30, coll. Y.Utsumi no. 151030-11-3 (CBM-BB-39162). <2573> 習志野市, 25 m elev., on trunk, 2008 Nov. 21, coll. K.Kaneko no. 080674 (CBM-BB-31518); on trunk of Salix, 2008 Dec. 13, coll. H.Kaneko, K.Kaneko & T.Furuki no. 080732 (CBM-BB-31576). <2582> 習志野市, 12 m elev., on trunk, 2008 Dec. 13, coll. H.Kaneko, K.Kaneko & T.Furuki no. 21818 (CBM-BB-35885). <2637> 佐倉市, 5 m elev., on trunk of Aphananthe aspera, 1996 Dec. 16, coll. T.Furuki no. 13283 (CBM-BB-23365); 30 m elev., on trunk of Hovenia dulcis, 1996 Dec. 16, coll. T.Furuki no. 13318 (CBM-BB-23400); on trunk of Aphananthe aspera, 1997 Mar. 6, coll. T.Furuki no. 13329 (CBM-BB-23411); on fallen log, 1997 Mar. 6, coll. T.Furuki no. 13339 (CBM-BB-23421). <2638> 佐倉市, 50 m elev., on trunk, 1997 Sept. 10, coll. T.Furuki no. 13893 (CBM-BB-24840). <2645> 佐倉市, 20 m elev., on trunks, 1999 Nov. 8, coll. T.Furuki no. 16247 (CBM-BB-24941). <2648> 佐倉市, 50 m elev., on trunks, 1997 Sept. 10, coll. T.Furuki no. 13886 (CBM-BB-24833); 1997 Sept. 10, coll. T.Furuki no. 13887 (CBM-BB-24834); 1997 Sept. 10, coll. T.Furuki no. 13888 (CBM-BB-24835). <3475> 千葉市, 15 m elev., on trunk of Ginkgo biloba, 1995 July 25, coll. H.Suga no. 4070 (CBM-BB-20833). <3566> 東金市, 40 m elev., on stone wall, 2002 Jan. 25, coll. T.Furuki no. 17110 (CBM-BB-25508); on trunk of Ginkgo, 2002 Jan. 25, coll. T.Furuki no. 17118 (CBM-BB-25516). <4028> 東金市, 70 m elev., on rock, 2016 Feb. 7, coll. T.Furuki no. 24036 (CBM-BB-38153). <4162> 東金市, 5 m elev., on trunk of Podocarpus, 1989 Aug. 7, coll. H.Takamiya no. 89106 (CBM-BB-4591). <4180> 東金市, 4 m elev., on trunk of Machilus thunbergii, 1989 July 23, coll. H.Takamiya no. 89064 (CBM-BB-4637). <4351> 袖ヶ浦市, 5 m elev., on concrete, 1996 Sept. 1, coll. T.Furuki no. 13229 (CBM-BB-23310). <4930> 袖ヶ浦市, 15 m elev., on trunk of Cinnamomum camphora, 1996 Sept. 15, coll. T.Kawana no. 96091527 (CBM-BB-22717), no. 96091528 (CBM-BB-22718). <4970> 袖ヶ浦市, 60 m elev., on trunk of Diospyros kaki, 1996 Sept. 30, coll. T.Kawana no. 96093006 (CBM-BB-22778). <5732> 市原市, 70 m elev., on trunk, 1992 Dec. 18, coll. T.Furuki no. 11357 (CBM-BB-11713). <6737> 鴨川市, on sand rock, 1944 July 29, coll. S.Asano s.n. (CBM-BB-127). <6783> 南房総市, 63 m elev., on trunk of Ginkgo biloba, 1992 Nov. 11, coll. H.Suga no. 2832 (CBM-BB-13422). <7440> 館山市, 1987 Dec. 10, coll. T.Nakamura no. 4777 (CBM-BB-3727). <7582>

館山市, 10 m elev., on rock cliff, 1987 Dec. 11, coll. T.Nakamura no. 4781 (CBM-BB-3731).

***Frullania hamatiloba* Steph. カギヤスデゴケ**

<4036> 東金市, 20 m elev., on trunk, 1991 Feb. 2, coll. T.Furuki no. 9774 (CBM-BB-17878); 1991 Feb. 2, coll. T.Furuki no. 9775 (CBM-BB-17879). <5082> 市原市, 80 m elev., on trunk, 1992 Dec. 4, coll. T.Furuki no. 11285 (CBM-BB-11641). <5790> 市原市, 200 m elev., on trunk, 1992 Nov. 13, coll. T.Furuki no. 11251 (CBM-BB-11607).

***Frullania inflata* Gottsche ヒラヤスデゴケ**

<2614> 佐倉市, 25 m elev., on rock, 1997 Mar. 6, coll. T.Furuki no. 13353 (CBM-BB-23435); on granite, 1997 Mar. 6, coll. T.Furuki no. 13359 (CBM-BB-23441).

***Frullania kagoshimensis* Steph. カゴシマヤスデゴケ**

<3008> 銚子市, 30 m elev., on trunk, 1989 Sept. 29, coll. T.Furuki no. 9377 (CBM-BB-13567). <4028> 東金市, 14 m elev., on trunk of Quercus, 2016 Feb. 7, coll. T.Furuki no. 24037 (CBM-BB-38154). <6267> 君津市, 100 m elev., on trunk, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24537 (CBM-BB-39454). <6279> 君津市, 230 m elev., on fallen log, 2015 Mar. 11, coll. T.Furuki no. 23784 (CBM-BB-37574). <6288> 君津市, 315 m elev., on trunk, 2016 Mar. 28, coll. T.Furuki no. 24189 (CBM-BB-38646). <不明> 鴨川市, 1937 June 1, coll. M.Tuzize no. 576 (CBM-BB-40295); 君津市, 1937 Apr. 28, coll. M.Tuzize no. 357 (CBM-BB-40077).

***Frullania moniliata* (Reinw., Blume & Nees) Mont. (= *F. tamarisci* auct. non (L.) Dumort.) シダレヤスデゴケ**

<1965> 成田市, 35 m elev., on trunk, 1950 Mar. 4, coll. T.Namegata no. 48 (CBM-BB-17051). <3008> 銚子市, 30 m elev., on trunk, 1989 Sept. 29, coll. T.Furuki no. 9366 (CBM-BB-13556); on decaying log, 1989 Sept. 29, coll. T.Furuki no. 9414 (CBM-BB-13604). <4028> 東金市, 50 m elev., on trunk, 1991 Feb. 2, coll. T.Furuki no. 9789 (CBM-BB-17893). <4335> 市原市, 15 m elev., on trunk of Prunus x yedoensis, 1978 Jan. 4, coll. T.Nakamura no. 1945 (CBM-BB-2130). <5185> 睦沢町, 45 m elev., on trunk, 1992 Sept. 27, coll. H.Takamiya no. 92083 (CBM-BB-13322). <5782> 市原市, 70 m elev., on trunk, 2013 June 27, coll. T.Furuki no. 23281 (CBM-BB-36975). <5790> 市原市, 200 m elev., on trunk, 1992 Nov. 13, coll. T.Furuki no. 11240 (CBM-BB-11596); 250 m elev., on trunk, 1991 June 5, coll. T.Furuki no. 9806 (CBM-BB-11523); 280 m elev., on trunk, 1991 June 5, coll. H.Suga no. 2339 (CBM-BB-9953). <6247> 君津市, 200 m elev., on rock, 1976 Dec. 4, coll. H.Takamiya no. 76031 (CBM-BB-4136). <6281> 君津市, 200 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88107 (CBM-BB-4344). <6288> 君津市, 330 m elev., on trunk of Quercus, 2016 Mar. 28, coll. T.Furuki no. 24192 (CBM-BB-38649). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11610 (CBM-BB-16855), no. 11623 (CBM-BB-16868). <6297> 君津市, 320 m elev., on trunk, 2019 Feb. 26, coll. T.Furuki no. 25257 (CBM-BB-41733). <6300> 市原市, 110 m elev., on trunk, 2004 June 10, coll. T.Furuki no. 19362 (CBM-BB-29050). <6301> 市原市, 150 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8056 (CBM-BB-17417). <6361> 鴨川市, 200 m elev., on rock, 2001 Jan. 12, coll. T.Furuki no. 16553 (CBM-BB-25353). <6373> 大多喜町, 310 m elev., on trunk base of Quercus, 1993 Dec. 24, coll. H.Takamiya no. 93071 (CBM-BB-18037). <6385> 大多喜町, 180 m elev., on trunk base of Quercus, 1993 Nov. 7, coll. H.Takamiya no. 93086 (CBM-BB-18051). <6391> 鴨川市, 220 m elev., on ledge, 1996 Mar. 30, coll. H.Takamiya no. 96075 (CBM-BB-22904). <6606> 富津市, 150 m elev., on rock cliff, 1989 June 15, coll. T.Furuki no. 8234 (CBM-BB-17592). <6773> 南房総市, 320 m elev., on boulder, 1992 Nov. 11, coll. H.Suga no. 2869 (CBM-BB-13458). <6872> 鴨川市, 250 m elev., on rock, 1986 Aug. 11, coll. H.Takamiya no. 86089 (CBM-BB-4298). <6901> 鴨川市, 200 m elev., on trunk, 1990 Apr. 1, coll. T.Furuki no. 8560 (CBM-BB-17848). <6902> 鴨川市, 100 m elev., on rock, 1975

Mar. 22, coll. T.Nakamura no. 613 (CBM-BB-969). <6904> 鴨川市, 160 m elev., on ledge, 1995 Mar. 15, coll. H.Takamiya no. 95014 (CBM-BB-20997). <6911> 君津市, 280 m elev., on rock cliff, 2015 Mar. 11, coll. T.Furuki no. 23713 (CBM-BB-37503). <6912> 鴨川市, 340 m elev., on trunk, 1944 July 16, coll. S.Asano no. 10 (CBM-BB-118); 200 m elev., on trunk, 1987 Aug. 3, coll. H.Takamiya no. 87111 (CBM-BB-4544); 320 m elev., on trunk of Prunus, 1991 Sept. 29, coll. H.Suga no. 2475 (CBM-BB-9983). <6915> 鴨川市, 180 m elev., on ledge, 1995 Mar. 15, coll. H.Takamiya no. 95018 (CBM-BB-21001). <6922> 鴨川市, 190 m elev., on decaying log, 1995 Mar. 28, coll. H.Takamiya no. 95102 (CBM-BB-21085). <6930> 鴨川市, 70 m elev., on boulder, 1941 Mar. 30, coll. Y.Ikegami no. 2894 (CBM-BB-72). <6932> 鴨川市, 200 m elev., on rock, 1985 July 14, coll. H.Takamiya no. 85006 (CBM-BB-4181). <不明> 鴨川市, 1937 June 1, coll. M.Tuzize no. 577 (CBM-BB-40296); 君津市, 1937 May 28, coll. M.Tuzize no. 439 (CBM-BB-40159).

Frullania muscicola Steph. カラヤステゴケ

<2645> 佐倉市, 20 m elev., on trunks, 1999 Nov. 8, coll. T.Furuki no. 16248 (CBM-BB-24942). <4054> 大網白里市, 50 m elev., on trunk, 1988 Aug. 23, coll. H.Takamiya no. 88110 (CBM-BB-4435). <5045> 市原市, 80 m elev., on decaying log, 1987 July 12, coll. H.Takamiya no. 87113 (CBM-BB-4491). <5082> 市原市, 80 m elev., on trunk, 1987 July 12, coll. H.Takamiya no. 87114 (CBM-BB-4501). <5189>, 一宮町, 30 m elev., on rock, 1987 June 7, coll. H.Takamiya no. 87112 (CBM-BB-4329). <5792> 市原市, 150 m elev., on trunk, 1988 May 29, coll. H.Takamiya no. 88109 (CBM-BB-4361). <6862> 鴨川市, on rock, 1976 Nov. 16, coll. H.Takamiya no. 76060 (CBM-BB-4165). <0469> 野田市, 13 m elev., on trunk of Zelkova, 2016 Apr. 8, coll. Y.Utsumi & T.Furuki no. 24265 (CBM-BB-38722). <0479> 野田市, 12.8 m elev., on trunk, 2016 Apr. 8, coll. Y.Utsumi no. 160408-59 (CBM-BB-39349), Y.Utsumi no. 160408-60 (CBM-BB-39350). <0541> 野田市, 10 m elev., on trunk, 2015 June 16, coll. Y.Utsumi no. 150616-15 (CBM-BB-38420)/ <0903> 野田市, 15 m elev., on trunk, 2014 Sept. 19, coll. Y.Utsumi no. 140919-14 (CBM-BB-37404). <1757> 白井市, 25 m elev., 2007 Feb. 26, coll. T.Furuki no. 21610 (CBM-BB-31675). <2402> 市川市, 10 m elev., on trunk, 2010 Dec. 26, coll. H.Kaneko & K.Kaneko no. 100101 (CBM-BB-34965). <2406> 市川市, 25 m elev., on trunk, 2011 June 18, coll. H.Kaneko & K.Kaneko no. 100288 (CBM-BB-35150). <2412> 市川市, 20 m elev., on trunk, 2010 Dec. 9, coll. H.Kaneko & K.Kaneko no. 100030 (CBM-BB-34894); on trunk of Cinnamomum, 2012 Mar. 28, coll. H.Kaneko & K.Kaneko no. 100530 (CBM-BB-35386). <2413> 市川市, 15 m elev., on trunk of Eriobotrya, 2011 Dec. 22, coll. H.Kaneko & K.Kaneko no. 100371 (CBM-BB-35229). <2434> 市川市, 15 m elev., on trunk, 2010 Nov. 26, coll. K.Kaneko no. 100012 (CBM-BB-34876). <2438> 船橋市, 10 m elev., on trunk, 2009 Dec. 30, coll. H.Kaneko & K.Kaneko no. 090567 (CBM-BB-33936). <2447> 船橋市, 10 m elev., on trunk, 2009 Apr. 6, coll. H.Kaneko & K.Kaneko no. 090324 (CBM-BB-33693). <2469> 船橋市, 5 m elev., on trunk, 2010 Dec. 21, coll. T.Furuki, H.Kaneko & K.Kaneko no. 22530 (CBM-BB-35772), 090827 (CBM-BB-34192), 090839 (CBM-BB-34204). <2493> 市川市, 2 m elev., on fallen log, 2012 Nov. 1, coll. H.Kaneko & K.Kaneko no. 100790 (CBM-BB-35640). <2515> 船橋市, 20 m elev., on trunk, 2010 Apr. 24, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090792 (CBM-BB-34154). <2544> 船橋市, 15 m elev., on trunk, 2009 Sept. 4, coll. H.Kaneko & K.Kaneko no. 090401 (CBM-BB-33770), H.Kaneko & K.Kaneko no. 090402 (CBM-BB-33771). <2573> 習志野市, 25 m elev., on trunk, 2008 Nov. 21, coll. K.Kaneko no. 080673 (CBM-BB-31517). <2637> 佐倉市, 30 m elev., on trunk of Celtis sinensis var. japonica, 1997 Mar. 6, coll. T.Furuki no. 13327 (CBM-BB-23409). <3201> 浦安市, 2 m elev., on trunk of Zelkova, 2013 Apr. 8, coll. H.Kaneko & K.Kaneko no. 130018 (CBM-BB-39673). <3212> 浦安市, 2 m elev., on trunk of Liquidambar, 2013 May 31, coll. H.Kaneko & K.Kaneko no. 130083 (CBM-BB-39738); on trunk of Cinnamomum, 2013 May 31, coll. H.Kaneko & K.Kaneko no. 130100 (CBM-BB-39755).

<3329> 千葉市, 8 m elev., on trunk of Quercus serrata, 1993 Jan. 20, coll. H.Suga no. 2985 (CBM-BB-11736). <3423> 四街道市, 30 m elev., on trunk of Ginkgo biloba, 1975 Dec. 14, coll. T.Nakamura no. 3996 (CBM-BB-1178). <3431> 千葉市, 16 m elev., on trunk of Quercus, 2010 Jan. 18, coll. H.Matsui no. 20100118-02 (CBM-BB-42564); 20 m elev., on trunk, 2009 Feb. 9, coll. T.Furuki no. 21820 (CBM-BB-35887). <3457> 千葉市, 30 m elev., on trunk of Carpinus, 1994 Dec. 7, coll. H.Suga no. 4015 (CBM-BB-19200). <3481> 千葉市, 20 m elev., on trunk of Aphananthe aspera, 1989 Sept. 5, coll. T.Furuki no. 8378 (CBM-BB-8178); 1989 Sept. 5, coll. T.Furuki no. 8383 (CBM-BB-8183). <3566> 東金市, 40 m elev., on trunk of Prunus mume, 2002 Jan. 25, coll. T.Furuki no. 17103 (CBM-BB-25501). <3923> 千葉市, 30 m elev., on trunk of Prunus jamazakura, 1993 Feb. 19, coll. T.Nakamura s.n. (CBM-BB-11773). <4027> 東金市, 60 m elev., on trunk of Machilus thunbergii, 1990 July 15, coll. H.Takamiya no. 90056 (CBM-BB-4797). <4045> 大網白里市, 70 m elev., on trunk of Prunus, 1990 Nov. 10, coll. H.Takamiya no. 90225 (CBM-BB-4937). <4062> 千葉市, on trunk of Prunus x yedoensis, 1974 Dec. 14, coll. S.Asano no. 52 (CBM-BB-366). <4082> 千葉市, 90 m elev., on trunk of Prunus, 1995 Sept. 22, coll. H.Suga no. 4215 (CBM-BB-20949). <4333> 市原市, 10 m elev., on trunk, 1993 Mar. 5, coll. T.Furuki no. 11372 (CBM-BB-17708). <4339> 市原市, 10 m elev., on trunk of Cinnamomum camphora, 1978 Jan. 4, coll. T.Nakamura no. 1923 (CBM-BB-2111). <4348> 市原市, 20 m elev., on trunk of Zelkoba serrata, 1978 Jan. 4, coll. T.Nakamura no. 1931 (CBM-BB-2117). <4349> 市原市, 10 m elev., on trunk of Machilus thunbergii, 1978 Jan. 4, coll. T.Nakamura no. 1922b (CBM-BB-2110). <4912> 袖ヶ浦市, 20 m elev., on stone lantern, 1996 Aug. 29, coll. T.Furuki no. 13213 (CBM-BB-23294). <5082> 市原市, 120 m elev., on trunk, 1992 Dec. 18, coll. T.Furuki no. 11332 (CBM-BB-11688). <5145> 睦沢町, 40 m elev., on trunk, 1992 May 31, coll. H.Takamiya no. 92010 (CBM-BB-13249). <5182> 睦沢町, 85 m elev., on stump, 1992 Aug. 30, coll. H.Takamiya no. 92040 (CBM-BB-13279). <5792> 市原市, 75 m elev., on trunk, 2011 June 12, coll. T.Furuki no. 22640b (CBM-BB-36422); 市原市, 85 m elev., on rock cliff, 2018 Dec. 9, coll. T.Furuki no. 25045 (CBM-BB-41483); 100 m elev., on trunk of Prunus, 1989 Apr. 13, coll. T.Furuki no. 8008 (CBM-BB-17369); 1989 Apr. 13, coll. T.Furuki no. 8011 (CBM-BB-17372). <6129> 君津市, 80 m elev., on trunk of Quercus serrata, 2003 Dec. 25, coll. T.Kawana no. 04012525 (CBM-BB-28014). <6149> 君津市, 80 m elev., on trunk of Quercus glauca, 2003 Nov. 15, coll. T.Kawana no. 03111556 (CBM-BB-27840). <6159> 君津市, 100 m elev., on trunk of Swida controversa, 2003 Dec. 3, coll. T.Kawana no. 03120332 (CBM-BB-27929). <6221> 君津市, 90 m elev., on trunk of Aucuba japonica, 2003 Jan. 21, coll. T.Kawana no. 03012129 (CBM-BB-27685). <6279> 君津市, 200 m elev., on trunk, 1995 Mar. 2, coll. T.Furuki no. 12043 (CBM-BB-21594); 230 m elev., on trunk of deciduous trees, 2015 Mar. 11, coll. T.Furuki no. 23765 (CBM-BB-37555); on fallen log, 2015 Mar. 11, coll. T.Furuki no. 23786 (CBM-BB-37576). <6300> 市原市, 115 m elev., on trunk, 2005 June 14, coll. T.Furuki no. 19857 (CBM-BB-30249). <6301> 市原市, 120 m elev., on trunk of Acer, 1992 Sept. 8, coll. T.Furuki no. 11153 (CBM-BB-11543); on standing dead tree, 1992 Sept. 8, coll. T.Furuki no. 11177 (CBM-BB-11567); 1992 Sept. 8, coll. T.Furuki no. 11178 (CBM-BB-11568); on base of trunk, 1992 Dec. 18, coll. T.Furuki no. 11288 (CBM-BB-11644); on trunk, 1992 Dec. 18, coll. T.Furuki no. 11348 (CBM-BB-11704); 150 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8057 (CBM-BB-17418). <6334> 大多喜町, 130 m elev., on base of trunk, 1992 Dec. 18, coll. H.Takamiya no. 92212 (CBM-BB-17966). <6361> 君津市, 140 m elev., on trunk, 2000 Dec. 15, coll. T.Furuki no. 16480 (CBM-BB-25350). <6616> 鋸南町, 230 m elev., on tuff cliff, 1974 Nov. 1, coll. T.Nakamura no. 327 (CBM-BB-832); 250 m elev., on trunk, 1989 June 15, coll. T.Furuki no. 8261 (CBM-BB-17618). <6783> 南房総市, 330 m elev., on trunk, 2003 Mar. 7, coll. T.Furuki no. 18569 (CBM-BB-28269). <6872> 鴨川市, 200 m elev., on trunk, 1986 Aug. 11, coll. H.Takamiya no. 86087 (CBM-BB-4297). <6911> 鴨川市, 290 m elev., on fallen

log, 2015 June 25, coll. T.Furuki no. 23895 (CBM-BB-37868). <6913> 鴨川市, 125 m elev., on fallen log, 2016 Mar. 9, coll. T.Furuki no. 24150 (CBM-BB-38607). <7168> 館山市, 5 m elev., on trunk of *Cycas revoluta*, 1976 Feb. 23, coll. T.Nakamura no. 732 (CBM-BB-1316).

***Frullania osumiensis* (S.Hatt.) S.Hatt. オオスミヤスデゴケ**

<6159> 君津市, 100 m elev., on trunk of *Euptelea polyandra*, 2003 Nov. 15, coll. T.Kawana no. 03111540 (CBM-BB-27830). <6278> 君津市, 185 m elev., on trunk, 2016 Mar. 3, coll. T.Furuki no. 24078 (CBM-BB-38535); on fallen log, 2016 Mar. 3, coll. T.Furuki no. 24102 (CBM-BB-38559); 200 m elev., on trunk, 2016 Mar. 3, coll. T.Furuki no. 24109 (CBM-BB-38566). <6279> 君津市, 200 m elev., on trunk, 1995 Mar. 2, coll. T.Furuki no. 12044 (CBM-BB-21595); 230 m elev., on fallen log, 2015 Mar. 11, coll. T.Furuki no. 23785 (CBM-BB-37575). <6286> 君津市, 150 m elev., on trunk of *Quercus*, 2016 Mar. 28, coll. T.Furuki no. 24231 (CBM-BB-38688). <6385> 大多喜町, 180 m elev., on trunk base of *Quercus*, 1993 Nov. 7, coll. H.Takamiya no. 93090 (CBM-BB-18055). <6394> 大多喜町, 330 m elev., on trunk base of *Quercus*, 1993 Nov. 7, coll. H.Takamiya no. 93107 (CBM-BB-18072). <不明> 君津市, 1938 May 2, coll. M.Tuzize no. 1605 (CBM-BB-41051).

***Frullania parvistipula* Steph. ヒメアカヤスデゴケ**

<0193> 野田市, 13 m elev., on trunk, 2015 June 15, coll. Y.Utsumi no. 150615-13 (CBM-BB-38355), no. 150615-36 (CBM-BB-38376). <0553> 野田市, 6 m elev., on trunk, 2015 Feb. 10, coll. Y.Utsumi no. 150210-36 (CBM-BB-38230); 7 m elev., on trunk, 2015 Jan. 28, coll. Y.Utsumi no. 150128-41 (CBM-BB-38192). <1697> 市川市, 20 m elev., on soil, 2012 Feb. 9, coll. H.Kaneko & K.Kaneko no. 100462 (CBM-BB-35318). <1753> 南房総市, 25 m elev., on trunk of *Prunus*, 2005 Dec. 14, coll. T.Furuki no. 21009 (CBM-BB-30385). <1766> 船橋市, 20 m elev., on rock, 2009 Nov. 26, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090525 (CBM-BB-33894). <2402> 市川市, 10 m elev., on trunk, 2010 Dec. 26, coll. H.Kaneko & K.Kaneko no. 100102 (CBM-BB-34966), no. 100103 (CBM-BB-34967). <2406> 市川市, 25 m elev., on trunk of *Pinus*, 2011 June 18, coll. H.Kaneko & K.Kaneko no. 100289 (CBM-BB-35151). <2413> 市川市, 20 m elev., on trunk of *Cerasus*, 2012 Jan. 6, coll. H.Kaneko & K.Kaneko no. 100416 (CBM-BB-35273). <2465> 市川市, 5 m elev., on trunk, 2011 Apr. 16, coll. H.Kaneko & K.Kaneko no. 100175 (CBM-BB-35039). <2469> 船橋市, 5 m elev., on trunk, 2010 Dec. 21, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090843 (CBM-BB-34208); 15 m elev., on trunk, 2009 Feb. 21, coll. H.Kaneko & K.Kaneko no. 090094 (CBM-BB-33464), no. 090098 (CBM-BB-33468). <2473> 市川市, 5 m elev., on trunk of *Cinnamomum*, 2012 Feb. 22, coll. H.Kaneko & K.Kaneko no. 100477 (CBM-BB-35333). <2580> 習志野市, 5 m elev., on trunk of *Prunus*, 2009 Jan. 29, coll. H.Kaneko & K.Kaneko no. 080754 (CBM-BB-31598). <2637> 佐倉市, 5 m elev., on trunk of *Prunus mume*, 1996 Dec. 16, coll. T.Furuki no. 13297 (CBM-BB-23379). <2638> 佐倉市, 50 m elev., on trunks, 1997 Sept. 10, coll. T.Furuki no. 13900 (CBM-BB-24847). <2645> 佐倉市, 50 m elev., on trunks, 1999 Nov. 1, coll. T.Furuki no. 16239 (CBM-BB-24933). <2874> 芝山町, 40 m elev., on trunk, 1991 Mar. 10, coll. H.Suga no. 2272 (CBM-BB-9924). <3201> 浦安市, 2 m elev., on trunk of *Zelkova*, 2013 May 8, coll. H.Kaneko & K.Kaneko no. 130064 (CBM-BB-39719); 2013 Nov. 28, coll. T.Furuki, H.Kaneko & K.Kaneko no. 130213 (CBM-BB-39867); 2013 Apr. 8, coll. H.Kaneko & K.Kaneko no. 130019 (CBM-BB-39674); on base of stone lanterns, 2013 Nov. 28, coll. T.Furuki, H.Kaneko & K.Kaneko no. 130214 (CBM-BB-39868). <3369> 千葉市, 10 m elev., on trunk of *Ginkgo biloba*, 1993 Nov. 17, coll. H.Suga no. 3542 (CBM-BB-16675). <4378> 市原市, 30 m elev., on trunk of *Cinnamomum camphora*, 1975 Apr. 19, coll. T.Nakamura no. 901 (CBM-BB-981). <4927> 袖ヶ浦市, 80 m elev., on trunk of *Diospyros kaki*, 1996 Dec. 10, coll. T.Kawana no. 96101004 (CBM-BB-22598). <4960> 袖ヶ浦市, 40 m elev., on grave stone, 1996 Aug. 8, coll. T.Furuki no.

13162 (CBM-BB-23243); on trunk of standing dead tree, 1996 Aug. 8, coll. T.Furuki no. 13166 (CBM-BB-23247). <6231> 君津市, 90 m elev., on trunk, 2003 Jan. 21, coll. T.Kawana no. 03012141 (CBM-BB-27688). <6317> 大多喜町, 160 m elev., on trunk of *Sambucus racemosa* ssp. *sieboldiana*, 1994 Mar. 12, coll. H.Takamiya no. 94010 (CBM-BB-18614). <6389> 大多喜町, 250 m elev., on trunk, 1993 Nov. 14, coll. H.Takamiya no. 93141 (CBM-BB-18106); 1993 Nov. 14, coll. H.Takamiya no. 93142 (CBM-BB-18107). <7178> 館山市, 50 m elev., on stone wall, 2003 Mar. 7, coll. T.Furuki no. 18563 (CBM-BB-28263).

***Frullania pedicellata* Steph. クロアオヤスデゴケ**

<3008> 銚子市, 30 m elev., on stone-dedecatory-lantern, 1989 Sept. 29, coll. T.Furuki no. 9390 (CBM-BB-13580). <4296> 袖ヶ浦市, 10 m elev., on stone lantern, 1996 Sept. 1, coll. T.Furuki no. 13216 (CBM-BB-23297). <5790> 市原市, 250 m elev., on stone lantern, 1991 June 5, coll. T.Furuki no. 9811 (CBM-BB-11528). <5790> 市原市, 250 m elev., on stone lantern, 1991 June 5, coll. T.Furuki no. 9813 (CBM-BB-11530). <6278> 君津市, 185 m elev., on trunk, 2016 Mar. 3, coll. T.Furuki no. 24088 (CBM-BB-38545). <6279> 君津市, 230 m elev., on fallen log, 2015 Mar. 11, coll. T.Furuki no. 23776 (CBM-BB-37566). <6616> 鋸南町, 200 m elev., on rock, 1997 Aug. 22, coll. T.Furuki no. 13850 (CBM-BB-38098). <7700> 南房総市, 25 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18519 (CBM-BB-28219).

***Frullania tamsuina* Steph. タンスイヤスデゴケ**

<6901> 鴨川市, 250 m elev., on trunk, 2019 Feb. 27, coll. T.Furuki no. 25260a (CBM-BB-41736).

Geocalycaceae ソコマメゴケ科

***Geocalyx lancistipulus* (Steph.) S.Hatt. ヤマトソコマメゴケ**

<6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17796 (CBM-BB-28066). <6268> 君津市, 140 m elev., on rock cliff, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24513 (CBM-BB-39430). <6901> 鴨川市, 250 m elev., on trunk, 2004 Dec. 4, coll. T.Furuki no. 19609 (CBM-BB-29104).

Gymnomitriaceae ミゾゴケ科

***Nardia assamica* (Mitt.) Amakawa アカウロコゴケ**

<0469> 野田市, 13 m elev., on soil, 2016 Apr. 8, coll. Y.Utsumi & T.Furuki no. 24233 (CBM-BB-38690). <0479> 野田市, 12.8 m elev., on soil, 2016 Apr. 8, coll. Y.Utsumi no. 160408-43 (CBM-BB-39333). <0903> 野田市, 13 m elev., on soil, 2016 June 15, coll. Y.Utsumi no. 160615-3 (CBM-BB-39363). <1687> 市川市, 10 m elev., on soil, 2012 Nov. 8, coll. T.Furuki, H.Kaneko & K.Kaneko no. 23199 (CBM-BB-35845); 20 m elev., on soil, 2012 Mar. 7, coll. H.Kaneko & K.Kaneko no. 100489 (CBM-BB-35345); 25 m elev., on soil, 2012 Nov. 8, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100826 (CBM-BB-35676). <2235> 東庄町, 60 m elev., on soil, 1987 Aug. 25, coll. H.Takamiya no. 87078 (CBM-BB-4567). <2426> 市川市, 10 m elev., on soil, 2012 May 31, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100641 (CBM-BB-35494). <2439> 船橋市, 20 m elev., on soil, 2009 Mar. 27, coll. H.Kaneko & K.Kaneko no. 090276 (CBM-BB-33645). <2791> 佐倉市, 30 m elev., on soil, 1999 Sept. 9, coll. T.Furuki no. 16010 (CBM-BB-24922). <3008> 銚子市, 30 m elev., on soil, 1989 Sept. 29, coll. T.Furuki no. 9387 (CBM-BB-13577). <3036> 旭市, 10 m elev., on clay, 1992 Aug., coll. T.Nakamura no. 13240 (CBM-BB-17795), no. 13574 (CBM-BB-17798). <3556> 東金市, 35 m elev., on soil, 1989 Aug. 2, coll. H.Takamiya no. 89073 (CBM-BB-4735). <4027> 東金市, 45 m elev., on soil, 1990 July 15, coll. H.Takamiya no. 90059 (CBM-BB-4799). <4038> 東金市, 20 m elev., on clay, 1990 July 2, coll. H.Takamiya no. 90004 (CBM-BB-4764). <4054> 大網白里市, 50 m elev., on soil, 1988 Aug. 23, coll. H.Takamiya no. 88083 (CBM-BB-4433). <4901> 袖ヶ浦市, 20 m elev., on loam, 1996 Dec. 13, coll. T.Kawana no. 96101333 (CBM-BB-22670). <5478> 富津市, 20 m elev., on stone wall, 1997 Mar. 13, coll. T.Kawana no. 97031301 (CBM-BB-24066). <5489> 富津市,

20 m elev., on loam, 1997 Mar. 18, coll. T.Kawana no. 97031804 (CBM-BB-24082). <5598> 富津市, 300 m elev., on soil, 1988 July 3, coll. H.Takamiya no. 88082 (CBM-BB-4399). <5790> 市原市, 250 m elev., on soil, 1991 June 5, coll. T.Furuki no. 9805 (CBM-BB-11522). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17808 (CBM-BB-28078)/ <6352> 君津市, 205 m elev., on soil, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24563 (CBM-BB-39480). <6392> 市原市, 100 m elev., on cliff, 1996 Nov. 7, coll. T.Furuki no. 13323 (CBM-BB-23405). <6912> 鴨川市, 315 m elev., on soil, 2016 Dec. 18, coll. T.Furuki no. 24477 (CBM-BB-39390).

Jubulaceae ヒメウルシゴケ科

Jubula hutchiensiae (Hook.) Dumort. ssp. *japonica* (Steph.) Horik. & Ando (= *J. japonica* Steph.) ヒメウルシゴケ

<6251> 君津市, 30 m elev., on rock, 1976 July 30, coll. T.Nakamura no. 1118 (CBM-BB-1467). <6258> 君津市, 115 m elev., on rock cliff, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24502 (CBM-BB-39419). <6279> 君津市, 230 m elev., on rock, 2015 Mar. 11, coll. T.Furuki no. 23753 (CBM-BB-37543). <6297> 君津市, 320 m elev., on rock cliff, 2019 Feb. 26, coll. T.Furuki no. 25255 (CBM-BB-41731). <6301> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8069 (CBM-BB-17430). <6377> 大多喜町, 210 m elev., on soil, 1994 Mar. 15, coll. H.Takamiya no. 94054 (CBM-BB-18658). <6394> 大多喜町, 310 m elev., on decaying log, 1993 Nov. 7, coll. H.Takamiya no. 93102 (CBM-BB-18067). <6616> 鋸南町, 100 m elev., on rock, 1997 Aug. 22, coll. T.Furuki no. 13847 (CBM-BB-38095); 250 m elev., on rock cliff, 1989 June 15, coll. T.Furuki no. 8270 (CBM-BB-17627). <6780> 南房総市, 280 m elev., on stone wall, 1992 Nov. 18, coll. H.Suga no. 2932 (CBM-BB-13521). <6811> 君津市, 250 m elev., on rock, 2002 Dec. 19, coll. T.Kawana no. 02122124 (CBM-BB-27681); 280 m elev., on soil, 1995 Mar. 28, coll. H.Takamiya no. 96022 (CBM-BB-22851); 300 m elev., on cliff, 2001 Nov. 16, coll. T.Furuki no. 17024 (CBM-BB-25612). <6902> 鴨川市, 290 m elev., on soil, 1996 Mar. 29, coll. H.Takamiya no. 96049 (CBM-BB-22878). <6912> 鴨川市, 340 m elev., on soil, 1944 Apr. 16, coll. S.Asano no. 18 (CBM-BB-103). <6913> 鴨川市, 128 m elev., on rock cliff, 2016 Mar. 9, coll. T.Furuki no. 24159 (CBM-BB-38616). <6915> 鴨川市, 90 m elev., on ledge, 1995 Mar. 15, coll. H.Takamiya no. 95020 (CBM-BB-21003). <6932> 鴨川市, 50 m elev., on decaying log, 1995 Mar. 3, coll. T.Furuki no. 12046 (CBM-BB-21597).

Jubula hutchiensiae (Hook.) Dumort. ssp. *javanica* (Steph.) Vert. (= *J. javanica* Steph.) ハウルシゴケ

<6149> 君津市, 80 m elev., on decaying log, 2002 Dec. 12, coll. T.Kawana no. 02121214 (CBM-BB-27650). <6159> 君津市, 100 m elev., on trunk of Cryptomeria, 2003 Nov. 15, coll. T.Kawana no. 03111539 (CBM-BB-27829). <6169> 君津市, 140 m elev., on decaying log, 1994 Nov. 18, coll. T.Furuki no. 11774 (CBM-BB-21316). <6281> 君津市, 150 m elev., on rock, 1988 Apr. 25, coll. H.Takamiya no. 88119 (CBM-BB-4348). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11625 (CBM-BB-16870). <6358> 大多喜町, 190 m elev., on ledge, 1993 Nov. 14, coll. H.Takamiya no. 93124 (CBM-BB-18089). <6361> 鴨川市, 1937 June 2, coll. M.Tuzize no. 591 (CBM-BB-40310). <6391> 鴨川市, 180 m elev., on cliff, 1995 Dec. 15, coll. H.Takamiya no. 95124 (CBM-BB-21107). <6790> 南房総市, 170 m elev., on rock, 2003 Mar. 5, coll. T.Furuki no. 18467 (CBM-BB-28165); 2003 Mar. 5, coll. T.Furuki no. 18471 (CBM-BB-28169). <6902> 鴨川市, 340 m elev., 1943 Nov. 23, coll. S.Asano s.n. (CBM-BB-101); 1944 June 4, coll. S.Asano s.n. (CBM-BB-109). <6911> 鴨川市, 290 m elev., on decaying log, 2015 June 25, coll. T.Furuki no. 23892 (CBM-BB-37865). <6912> 鴨川市, 200 m elev., on boulder, 1987 Aug. 3, coll. H.Takamiya no. 87122 (CBM-BB-4549). <6913> 鴨川市, 180 m elev., on stone wall, 1996 Dec. 10, coll. H.Takamiya no. 96095 (CBM-BB-22924). <6926> 鴨川市, 80 m elev., among humus, 1995 Dec. 14, coll. H.Takamiya no. 95192

(CBM-BB-21174). <6932> 鴨川市, 160 m elev., on stone wall, 1996 Dec. 10, coll. H.Takamiya no. 96118 (CBM-BB-22947). <6935> 鴨川市, 130 m elev., on sprayed substra, 1995 Dec. 14, coll. H.Takamiya no. 95168 (CBM-BB-21150). <6937> 鴨川市, 80 m elev., among humus, 1995 Dec. 14, coll. H.Takamiya no. 95181 (CBM-BB-21163). <不明> 君津市, 1937 May 29, coll. M.Tuzize no. 521 (CBM-BB-40241), no. 522 (CBM-BB-40242), no. 524 (CBM-BB-40244).

Jungermanniaceae ツボミゴケ科

Jungermannia atrovirens Dumort. エソツボミゴケ

<5792> 市原市, 180 m elev., on sand, 1974 Apr. 29, coll. T.Nakamura no. 4 (CBM-BB-519). <6258> 君津市, 100 m elev., on tufa covering rocky cliffs, 2019 Feb. 25, coll. T.Furuki no. 25238 (CBM-BB-41714). <6258> 君津市, 100 m elev., on tufa covering rocky cliffs, 2019 Feb. 25, coll. T.Furuki no. 25240 (CBM-BB-41716); 115 m elev., on rock cliff, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24499 (CBM-BB-39416). <6260> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 22, coll. T.Furuki no. 11695 (CBM-BB-16940). <6280> 君津市, 170 m elev., on stone wall, 1990 May 31, coll. T.Nakamura no. 5111 (CBM-BB-4099). <6301> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8068 (CBM-BB-17429). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no. 8210 (CBM-BB-17568). <6616> 鋸南町, 140 m elev., on rock, 2012 Nov. 21, coll. T.Furuki no. 23226 (CBM-BB-36926); 240 m elev., on stone wall, 1994 Dec. 1, coll. T.Furuki no. 11798 (CBM-BB-21340). <6901> 鴨川市, 200 m elev., on rock cliff, 1990 Apr. 1, coll. T.Furuki no. 8567 (CBM-BB-17855); 1990 Apr. 1, coll. T.Furuki no. 8578 (CBM-BB-17866). <6911> 君津市, 275 m elev., on rock cliff, 2015 Mar. 19, coll. T.Furuki no. 23841 (CBM-BB-37813).

Jungermannia exsertifolia Steph. ヒロハツボミゴケ

<6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17776 (CBM-BB-28044). <6159> 君津市, 80 m elev., on rock, 2002 Nov. 2, coll. T.Kawana no. 021102019 (CBM-BB-27481); on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17783 (CBM-BB-28052); 2003 Dec. 4, coll. T.Kawana no. 03120424 (CBM-BB-28002). <6250> 君津市, 100 m elev., on boulder, 2003 Nov. 18, coll. T.Kawana no. 03111843 (CBM-BB-27878). <6250> 君津市, 120 m elev., on rock cliff, 2003 June 3, coll. T.Kawana no. 03060332 (CBM-BB-27746). <7700> 南房総市, 35 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18511 (CBM-BB-28211).

Jungermannia yamatoensis Bakalin & Furuki ヤマトツボミゴケ

<6276> 君津市, 140 m elev., on rock, 2016 Mar. 28, coll. T.Furuki no. 24184 (CBM-BB-38641). <6278> 君津市, 185 m elev., on boulder, 2016 Mar. 3, coll. T.Furuki no. 24103 (CBM-BB-38560). <6279> 君津市, 230 m elev., on rock, 2015 Mar. 11, coll. T.Furuki no. 23743 (CBM-BB-37533). <6616> 鋸南町, 100 m elev., on rock, 1997 Aug. 22, coll. T.Furuki no. 13842a (CBM-BB-38089).

Lioclaena subulata (A.Evans) Schljakov (= *Jungermannia subulata* A.Evans) ツツソロイゴケ

<1757> 白井市, 25 m elev., 2007 Feb. 26, coll. T.Furuki no. 21595 (CBM-BB-31660). <2413> 市川市, 20 m elev., on soil, 2012 Jan. 6, coll. H.Kaneko & K.Kaneko no. 100413 (CBM-BB-35270). <2614> 佐倉市, 25 m elev., on soil, 1997 Nov. 28, coll. T.Furuki no. 14588 (CBM-BB-24859). <3908> 千葉市, 35 m elev., on soil, 2015 Apr. 25, coll. T.Furuki no. 23882 (CBM-BB-37855). <4028> 東金市, 30 m elev., on cliff, 2002 Jan. 25, coll. T.Furuki no. 17164 (CBM-BB-25561). <4914> 袖ヶ浦市, 40 m elev., on soil, 1996 Aug. 29, coll. T.Furuki no. 13210 (CBM-BB-23291). <5145> 睦沢町, 40 m elev., on clay, 1992 May 31, coll. H.Takamiya no. 92013 (CBM-BB-13252). <5790> 市原市, 250 m elev., on soil, 1991 June 5, coll. T.Furuki no. 9817 (CBM-BB-11534). <6247> 君津市, 150 m elev., on soil,

1989 Aug. 24, coll. T.Furuki no. 8342 (CBM-BB-17696). <6278> 君津市, 185 m elev., on rotten log, 2016 Mar. 3, coll. T.Furuki no. 24097 (CBM-BB-38554). <6279> 君津市, 180 m elev., on soil, 2015 Mar. 19, coll. T.Furuki no. 23867 (CBM-BB-37839); 200 m elev., on decaying log, 1995 Mar. 2, coll. T.Furuki no. 12030 (CBM-BB-21581). <6290> 君津市, 150 m elev., 2001 Dec. 7, coll. T.Furuki no. 17050 (CBM-BB-25640). <6301> 鴨川市, 200 m elev., on fallen log, 1989 Apr. 13, coll. T.Furuki no. 8088 (CBM-BB-17449); on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8091 (CBM-BB-17452). <6922> 鴨川市, 115 m elev., on decaying log, 2016 Mar. 9, coll. T.Furuki no. 24131 (CBM-BB-38588).

Lejeuneaceae クサリゴケ科

Acrolejeunea pusilla (Steph.) Grolle & Gradst. ヒメミノリゴケ

<2637> 佐倉市, 5 m elev., on trunk of *Zelkova serrata*, 1996 Dec. 16, coll. T.Furuki no. 13281 (CBM-BB-23363). <2638> 佐倉市, 20 m elev., on trunks, 1997 Sept. 10, coll. T.Furuki no. 13877 (CBM-BB-24824); 50 m elev., on trunks, 1997 Sept. 10, coll. T.Furuki no. 13889 (CBM-BB-24836). <3441> 千葉市, 10 m elev., on base of trunk of *Machilus*, 1993 Jan. 22, coll. H.Suga no. 3003 (CBM-BB-11741); 1993 Jan. 22, coll. H.Suga no. 3004 (CBM-BB-11742); on trunk of *Castanopsis sieboldii*, 1993 Jan. 22, coll. T.Nakamura s.n. (CBM-BB-11748). <3481> 千葉市, 20 m elev., on trunk of *Prunus* sp., 1989 Sept. 5, coll. T.Furuki no. 8377 (CBM-BB-8177); on trunk of *Aphananthe aspera*, 1989 Sept. 5, coll. T.Furuki no. 8379 (CBM-BB-8179); on base of trunk of *Pinus*, 1989 Dec. 7, coll. H.Suga no. 1906 (CBM-BB-9016); on trunk of *Quercus serrata*, 1991 Apr. 4, coll. H.Suga no. 2310 (CBM-BB-9023). <4279> 袖ヶ浦市, 30 m elev., on decaying log, 1995 May 21, coll. T.Kawana no. 95052108 (CBM-BB-22390). <4299> 袖ヶ浦市, 30 m elev., on base of trunk of *Machilus thunbergii*, 1996 Sept. 16, coll. T.Kawana no. 96091633 (CBM-BB-22752). <4391> 袖ヶ浦市, 50 m elev., on trunk of *Aphananthe aspera*, 1996 Aug. 25, coll. T.Kawana no. 96082504 (CBM-BB-22540). <4930> 袖ヶ浦市, 15 m elev., on trunk of *Castanopsis sieboldii*, 1996 Sept. 15, coll. T.Kawana no. 96091519 (CBM-BB-22709). <4952> 袖ヶ浦市, 40 m elev., 1996 Jan. 04, coll. T.Kawana no. 96010429 (CBM-BB-22471). <4961> 袖ヶ浦市, 40 m elev., on decaying *Neolitsea sericera*, 1996 Dec. 4, coll. T.Kawana no. 96100411 (CBM-BB-22762). <4971> 袖ヶ浦市, 70 m elev., on stump, 1996 Dec. 4, coll. T.Kawana no. 96100405 (CBM-BB-22756). <5790> 市原市, 200 m elev., on trunk of *Pinus*, 1992 Nov. 13, coll. T.Furuki no. 11250 (CBM-BB-11606). <6139> 君津市, 100 m elev., on trunk of *Quercus glauca*, 2003 Dec. 25, coll. T.Kawana no. 04012536 (CBM-BB-28015). <6301> 市原市, 150 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8054 (CBM-BB-17415). <6780> 南房総市, 330 m elev., on trunk of *Podocarpus*, 2003 Mar. 7, coll. T.Furuki no. 18566 (CBM-BB-28266). <4038> 東金市, 20 m elev., on trunk of *Cephalotaxus harringtonia*, 1990 Dec. 20, coll. H.Takamiya no. 90202 (CBM-BB-4916).

Acrolejeunea sandvicensis (Gottsche) Steph. (= *Trocholejeunea sandvicensis* (Gottsche) Mizut.) フルノコゴケ

<1687> 市川市, 20 m elev., on trunk, 2012 June 21, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100770 (CBM-BB-35621). <2466> 市川市, 5 m elev., on rock, 2011 Apr. 16, coll. H.Kaneko & K.Kaneko no. 100208 (CBM-BB-35071). <2469> 船橋市, 15 m elev., on trunk, 2009 Feb. 21, coll. H.Kaneko & K.Kaneko no. 090102 (CBM-BB-33472). <2469> 船橋市, 5 m elev., on rock, 2010 Dec. 21, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090838 (CBM-BB-34203). <2572> 習志野市, 10 m elev., on soil, 2009 Jan. 23, coll. K.Kaneko no. 080753 (CBM-BB-31597). <2573> 習志野市, 25 m elev., on trunk of *Salix*, 2008 Dec. 13, coll. H.Kaneko, K.Kaneko & T.Furuki no. 080733 (CBM-BB-31577). <2637> 佐倉市, 30 m elev., on trunk of *Hovenia dulcis*, 1996 Dec. 16, coll. T.Furuki no. 13319 (CBM-BB-23401). <3008> 銚子市, 30 m elev., on decaying log, 1989 Sept. 29, coll. T.Furuki no. 9380 (CBM-BB-13570). <3423> 四街道

市, 30 m elev., on trunk of *Ginkgo biloba*, 1975 Dec. 14, coll. T.Nakamura no. 4009 (CBM-BB-1192). <3478> 市原市, 30 m elev., on trunk of *Prunus mume*, 1975 Apr. 19, coll. T.Nakamura no. 905 (CBM-BB-984). <3566> 東金市, 40 m elev., on stone wall, 2002 Jan. 25, coll. T.Furuki no. 17104 (CBM-BB-25502). <5191> 睦沢町, 100 m elev., on base of trunk, 1991 Dec. 20, coll. H.Takamiya no. 91141 (CBM-BB-9899). <5782> 市原市, 70 m elev., on trunk, 2013 June 27, coll. T.Furuki no. 23279 (CBM-BB-36973). <5792> 市原市, 160 m elev., on trunk, 1988 May 29, coll. H.Takamiya no. 88115 (CBM-BB-4363). <6279> 君津市, 230 m elev., on fallen log, 2015 Mar. 11, coll. T.Furuki no. 23752 (CBM-BB-37542). <6279> 君津市, 230 m elev., on fallen log, 2015 Mar. 11, coll. T.Furuki no. 23783 (CBM-BB-37573). <6281> 君津市, 200 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88114 (CBM-BB-4346). <6290> 君津市, 200-300 m elev., on base of trunk of tree, 1993 Dec. 21, coll. T.Furuki no. 11634 (CBM-BB-16879). <6301> 市原市, 150 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8053 (CBM-BB-17414). <6357> 大多喜町, 190 m elev., on base of trunk of *Cephalotaxus harringtonia*, 1994 Dec. 16, coll. H.Takamiya no. 94060 (CBM-BB-18664). <6606> 富津市, 150 m elev., on rock, 1989 June 15, coll. T.Nakamura s.n. (CBM-BB-17719). <6609> 富津市, 60 m elev., on trunk of deciduous tree, 1996 July 14, coll. T.Kawana no. 96071412 (CBM-BB-23551). <6616> 富津市, 200 m elev., on stone wall, 1974 Nov. 1, coll. T.Nakamura no. 328 (CBM-BB-833). <6904> 鴨川市, 160 m elev., on ledge, 1995 Mar. 15, coll. H.Takamiya no. 95012 (CBM-BB-20995). <6922> 鴨川市, 115 m elev., on trunk, 2016 Mar. 9, coll. T.Furuki no. 24121 (CBM-BB-38578). <6924> 鴨川市, 150 m elev., on ledge, 1995 Mar. 15, coll. H.Takamiya no. 95048 (CBM-BB-21031). <7168> 館山市, 5 m elev., on trunk of *Podocarpus*, 1976 Feb. 23, coll. T.Nakamura no. 729 (CBM-BB-1313); on trunk, 2003 Mar. 7, coll. T.Furuki no. 18562 (CBM-BB-26360). <7178> 館山市, 50 m elev., on stone wall, 2003 Mar. 7, coll. T.Furuki no. 18562 (CBM-BB-28262). <7496> 館山市, 20 m elev., on trunk of *Castanopsis*, 2003 Mar. 6, coll. T.Furuki no. 18537 (CBM-BB-28237).

Cheilolejeunea nipponica (S.Hatt.) S.Hatt. ヤマトクサリゴケ

<5790> 市原市, 250 m elev., on trunk, 1991 June 5, coll. T.Furuki no. 9809 (CBM-BB-11526). <6616> 鋸南町, 280 m elev., on soil, 1991 Jan. 27, coll. H.Suga no. 2241 (CBM-BB-9905).

Cheilolejeunea obtusifolia (Steph.) S.Hatt. チャボクサリゴケ

<6260> 君津市, 200-300 m elev., on soil, 1993 Dec. 22, coll. T.Furuki no. 11700 (CBM-BB-16945). <6616> 鋸南町, 100 m elev., on rock, 1997 Aug. 22, coll. T.Furuki no. 13843 (CBM-BB-38091). <6912> 鴨川市, 200 m elev., on rock, 1987 Aug. 3, coll. H.Takamiya no. 87117 (CBM-BB-4546).

Cheilolejeunea trapezia (Nees) Kachroo & R.M.Schust.

(= *C. imbricata* (Nees) S.Hatt.) シゲリゴケ

<5790> 市原市, 200 m elev., on trunk, 1992 Nov. 13, coll. T.Furuki no. 11241 (CBM-BB-11597). <6286> 君津市, 165 m elev., on trunk, 2016 Mar. 28, coll. T.Furuki no. 24221 (CBM-BB-38678). <6297> 君津市, 320 m elev., on trunk, 2019 Feb. 26, coll. T.Furuki no. 25252 (CBM-BB-41728). <6922> 鴨川市, 115 m elev., on trunk, 2016 Mar. 9, coll. T.Furuki no. 24118 (CBM-BB-38575); on rotten log, 2016 Mar. 9, coll. T.Furuki no. 24122 (CBM-BB-38579). <6932> 鴨川市, 50 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12056 (CBM-BB-21607); 200 m elev., on soil, 1985 July 14, coll. H.Takamiya no. 85007 (CBM-BB-4182).

Cololejeunea japonica (Schiffn.) Mizut. ヤマトヨウジョウゴケ

<0193> 野田市, 13 m elev., on rock, 2015 June 15, coll. Y. Utsumi no. 150615-10 (CBM-BB-38352). <0541> 野田市, 10 m elev., on trunk, 2015 June 16, coll. Y. Utsumi no. 150616-19 (CBM-BB-38424). <0553> 野田市, 6 m elev., on trunk, 2015 Feb. 10, coll. Y. Utsumi no. 150210-37 (CBM-BB-38231); 12 m

elev., on trunk, 2015 Jan. 28, coll. Y.Utsumi no. 150128-29 (CBM-BB-38180), no. 150128-30 (CBM-BB-38181). <0594> 野田 市, 15 m elev., on trunk, 2014 Dec. 31, coll. Y.Utsumi no. 141031-35 (CBM-BB-37626), no. 141031-38 (CBM-BB-37629). <0903> 野田市, 12 m elev., on rock, 2015 May 1, coll. Y.Utsumi no. 150501-9 (CBM-BB-38315); on trunk, 2014 Dec. 11, coll. Y.Utsumi no. 141011-17 (CBM-BB-37435). <1687> 市川市, 10 m elev., on fallen log, 2012 June 21, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100773 (CBM-BB-35624). <1692> 市川市, on trunk of *Quercus serrata*, 1977 May 2, coll. T.Nakamura no. 1419 (CBM-BB-1654). <1693> 市川市, 15 m elev., on trunk of *Celtis*, 2011 June 30, coll. H.Kaneko & K.Kaneko no. 100327 (CBM-BB-35188); on trunk of *Zelkova*, 2011 June 30, coll. H.Kaneko & K.Kaneko no. 100328 (CBM-BB-35189); on trunk of *Podocarpus*, 2011 June 30, coll. H.Kaneko & K.Kaneko no. 100329 (CBM-BB-35190); on trunk of *Castanopsis*, 2011 June 30, coll. H.Kaneko & K.Kaneko no. 100330 (CBM-BB-35191). <1697> 市川市, 20 m elev., on trunk of *Podocarpus*, 2012 Feb. 9, coll. H.Kaneko & K.Kaneko no. 100463 (CBM-BB-35319); on trunk of *Zelkova*, 2012 Mar. 7, coll. H.Kaneko & K.Kaneko no. 100505 (CBM-BB-35361). <1714> 白井市, 15 m elev., on trunk of *Carpinus*, 2006 Feb. 27, coll. T.Morita no. 200526 (CBM-BB-31728). <1716> 南房総市, 20 m elev., on trunk of *Kalopanax*, 2005 Dec. 14, coll. T.Furuki no. 21047 (CBM-BB-30423). <1726> 白井市, 20 m elev., on trunk of *Quercus*, 2007 Feb. 5, coll. T.Furuki no. 21577 (CBM-BB-31642). <1757> 白井市, 25 m elev., 2007 Feb. 26, coll. T.Furuki no. 21601 (CBM-BB-31666). <1766> 船橋市, 20 m elev., on rock, 2009 Nov. 26, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090515 (CBM-BB-33884). <1774> 船橋市, 10 m elev., on trunk, 2010 Jan. 6, coll. H.Kaneko & K.Kaneko no. 090610 (CBM-BB-33979). <1776> 船橋市, 10 m elev., on trunk, 1989 June 30, coll. T.Furuki no. 8319 (CBM-BB-17675); 1989 June 30, coll. T.Furuki no. 8320 (CBM-BB-17676); 1989 June 30, coll. T.Furuki no. 8321 (CBM-BB-17677). <2402> 市川市, 10 m elev., on trunk, 2010 Dec. 26, coll. H.Kaneko & K.Kaneko no. 100105 (CBM-BB-34969), no. 100106 (CBM-BB-34970), no. 100107 (CBM-BB-34971), no. 100108 (CBM-BB-34972); 20 m elev., on trunk, 2010 Dec. 9, coll. H.Kaneko & K.Kaneko no. 100061 (CBM-BB-34925). <2406> 市川市, 25 m elev., on trunk of *Pinus*, 2011 June 18, coll. H.Kaneko & K.Kaneko no. 100290 (CBM-BB-35152); on trunk of *Celtis*, 2011 June 18, coll. H.Kaneko & K.Kaneko no. 100291 (CBM-BB-35153). <2412> 市川市, 20 m elev., on trunk, 2010 Dec. 9, coll. H.Kaneko & K.Kaneko no. 100035 (CBM-BB-34899), no. 100036 (CBM-BB-34900), no. 100037 (CBM-BB-34901); on trunk of *Cinnamomum*, 2012 Mar. 28, coll. H.Kaneko & K.Kaneko no. 100532 (CBM-BB-35388); on trunk of *Cinnamomum*, 2012 Mar. 28, coll. H.Kaneko & K.Kaneko no. 100542 (CBM-BB-35398); on trunk of *Acer*, 2012 Mar. 28, coll. H.Kaneko & K.Kaneko no. 100556 (CBM-BB-35411). <2413> 市川市, 15 m elev., on trunk of *Eriobotrya*, 2011 Dec. 22, coll. H.Kaneko & K.Kaneko no. 100372 (CBM-BB-35230); on trunk, 2011 Dec. 22, coll. H.Kaneko & K.Kaneko no. 100385 (CBM-BB-35243). <2417> 市川市, 25 m elev., on trunk, 2011 Jan. 03, coll. H.Kaneko & K.Kaneko no. 100138 (CBM-BB-35002). <2419> 船橋市, 20 m elev., on trunk, 2010 Feb. 5, coll. H.Kaneko & K.Kaneko no. 090639 (CBM-BB-34007), no. 090641 (CBM-BB-34009), no. 090642 (CBM-BB-34010). <2438> 船橋市, 10 m elev., on trunk, 2009 Dec. 30, coll. H.Kaneko & K.Kaneko no. 090547 (CBM-BB-33916), no. 090569 (CBM-BB-33938), no. 090570 (CBM-BB-33939), no. 090571 (CBM-BB-33940), no. 090572 (CBM-BB-33941). <2457> 船橋市, 10 m elev., on trunk, 2009 Feb. 12, coll. H.Kaneko & K.Kaneko no. 090024 (CBM-BB-33394). <2464> 市川市, 5 m elev., on trunk, 2011 Apr. 28, coll. H.Kaneko & K.Kaneko no. 100234 (CBM-BB-35096), no. 100235 (CBM-BB-35097). <2465> 市川市, 5 m elev., on trunk, 2011 Apr. 16, coll. H.Kaneko & K.Kaneko no. 100176 (CBM-BB-35040). <2466> 市川市, 5 m elev., on rock, 2011 Apr. 16, coll. H.Kaneko & K.Kaneko no. 100209 (CBM-BB-35072). <2469> 船橋市, 5 m elev., on trunk, 2010 Dec. 21, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090823 (CBM-BB-34188),

no. 090826 (CBM-BB-34191); 15 m elev., on trunk, 2009 Feb. 21, coll. H.Kaneko & K.Kaneko no. 090095 (CBM-BB-33465), no. 090096 (CBM-BB-33466). <2493> 市川市, 2 m elev., on trunk, 2012 Nov. 1, coll. H.Kaneko & K.Kaneko no. 100792 (CBM-BB-35642). <2511> 船橋市, 15 m elev., on trunk, 2009 July 20, coll. H.Kaneko & K.Kaneko no. 090362 (CBM-BB-33731), no. 090363 (CBM-BB-33732). <2515> 船橋市, 20 m elev., on trunk, 2010 Apr. 24, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090793 (CBM-BB-34155). <2542> 船橋市, 20 m elev., on trunk, 2009 Nov. 23, coll. H.Kaneko & K.Kaneko no. 090459 (CBM-BB-33828). <2543> 船橋市, 10 m elev., on trunk, 2009 Nov. 12, coll. H.Kaneko & K.Kaneko no. 090451 (CBM-BB-33820). <2544> 船橋市, 15 m elev., on trunk, 2009 Sept. 4, coll. H.Kaneko & K.Kaneko no. 090404 (CBM-BB-33773), no. 090405 (CBM-BB-33774), no. 090406 (CBM-BB-33775), no. 090407 (CBM-BB-33776). <2564> 船橋市, 20 m elev., on trunk, 2010 Feb. 5, coll. H.Kaneko & K.Kaneko no. 090616 (CBM-BB-33985), no. 090617 (CBM-BB-33986). <2571> 習志野市, 20 m elev., on trunk, 2008 Nov. 7, coll. K.Kaneko no. 080646 (CBM-BB-31490). <2573> 習志野市, 25 m elev., on trunk, 2008 Nov. 21, coll. K.Kaneko no. 080676 (CBM-BB-31520); 2008 Dec. 13, coll. H.Kaneko, K.Kaneko & T.Furuki no. 080736 (CBM-BB-31580). <2575> 習志野市, 20 m elev., on trunk, 2008 June 28, coll. H.Kaneko & K.Kaneko no. 080253 (CBM-BB-31097), no. 080254 (CBM-BB-31098), no. 080288 (CBM-BB-31132), no. 080289 (CBM-BB-31133). <2580> 習志野市, 5 m elev., on trunk of *Zelkova*, 2008 Sept. 18, coll. H.Kaneko no. 080468 (CBM-BB-31312); on trunk of *Cinnamomum*, 2008 Sept. 18, coll. H.Kaneko no. 080469 (CBM-BB-31313); on trunk, 2008 Dec. 10, coll. K.Kaneko no. 080517 (CBM-BB-31361), no. 080518 (CBM-BB-31362). <2581> 習志野市, 10 m elev., on trunk of *Ginkgo*, 2008 May 18, coll. H.Kaneko & K.Kaneko no. 080135 (CBM-BB-30979), no. 080136 (CBM-BB-30980), no. 080137 (CBM-BB-30981). <2582> 習志野市, 10 m elev., on trunk, 2008 May 3, coll. H.Kaneko & K.Kaneko no. 080084 (CBM-BB-30928), no. 080085 (CBM-BB-30929), no. 080086 (CBM-BB-30930). <2585> 習志野市, 10 m elev., on trunk of *Prunus*, 2008 Nov. 20, coll. H.Kaneko, K.Kaneko & T.Furuki no. 080620 (CBM-BB-31464). <2637> 佐倉市, 30 m elev., on soil, 1997 Sept. 10, coll. T.Furuki no. 13885 (CBM-BB-24832). <2638> 佐倉市, 7 m elev., on trunk of *Alnus japonica*, 1996 Jan. 5, coll. T.Furuki no. 12809 (CBM-BB-21753); 50 m elev., on trunk, 1997 Sept. 10, coll. T.Furuki no. 13897 (CBM-BB-24844). <3201> 浦安市, 2 m elev., on trunk of *Zelkova*, 2013 Apr. 8, coll. H.Kaneko & K.Kaneko no. 130020 (CBM-BB-39675). <3212> 浦安市, 2 m elev., on trunk of *Cerasus*, 2013 May 31, coll. H.Kaneko & K.Kaneko no. 130084 (CBM-BB-39739); no. 130101 (CBM-BB-39756). <3213> 浦安市, 2 m elev., on trunk of *Cinnamomum*, 2013 Dec. 17, coll. H.Kaneko & K.Kaneko no. 130158 (CBM-BB-39813). <3231> 浦安市, 2 m elev., on root of tree, 2013 Nov. 22, coll. H.Kaneko & K.Kaneko no. 130180 (CBM-BB-39835). <3302> 習志野市, 2 m elev., on trunk, 2008 Sept. 12, coll. H.Kaneko no. 080409 (CBM-BB-31253); 2008 Sept. 12, coll. H.Kaneko no. 080410 (CBM-BB-31254). <3329> 千葉市, 8 m elev., on base of trunk of *Wisteria*, 1993 Jan. 20, coll. H.Suga no. 2976 (CBM-BB-11732). <3329> 千葉市, 15 m elev., on base of trunk of *Carpinus*, 1993 Jan. 20, coll. H.Suga no. 2970 (CBM-BB-11729), no. 2972 (CBM-BB-11730); on base of trunk of *Magnolia*, 1993 Jan. 20, coll. H.Suga no. 2975 (CBM-BB-11731); 40-110 m elev., on decaying log, 1993 Jan. 20, coll. T.Nakamura s.n. (CBM-BB-11737). <3349> 千葉市, 26 m elev., on base of trunk of *Zelkova serrata*, 1994 Dec. 18, coll. H.Suga no. 3807 (CBM-BB-19012); 1994 Dec. 18, coll. H.Suga no. 3809 (CBM-BB-19014). <3369> 千葉市, 10 m elev., on boulder, 1993 Nov. 17, coll. H.Suga no. 3537 (CBM-BB-16670); on trunk of *Castanopsis sieboldii*, 1993 Nov. 17, coll. H.Suga no. 3538 (CBM-BB-16671). <3413> 四街道市, 20 m elev., on decaying log, 1994 Nov. 24, coll. H.Suga no. 3932 (CBM-BB-19139); 28 m elev., on trunk of *Quercus*, 1994 Nov. 24, coll. H.Suga no. 3925 (CBM-BB-19134); on base of trunk and on root of *Schizophragma*, 1994 Nov. 24, coll. H.Suga no. 3931 (CBM-

BB-19138). <3423> 四街道市, 30 m elev., on trunk of Ginkgo biloba, 1975 Dec. 14, coll. T.Nakamura no. 4028 (CBM-BB-1211). <3431> 千葉市, 12 m elev., on trunk of Celtis, 2009 Feb. 9, coll. K.Kaneko no. 20090209-23 (CBM-BB-42535); on trunk of Vine, 2009 Feb. 9, coll. K.Kaneko no. 20090209-24 (CBM-BB-42536); 13 m elev., on trunk of Salix, 2008 June 13, coll. T.Kuramata no. 20080613-18 (CBM-BB-42439), 20080613-20 (CBM-BB-42441), 20080613-22 (CBM-BB-42443), 20080613-23 (CBM-BB-42444); 13.5 m elev., on trunk, 2019 Dec. 20, coll. T.Furuki no. 25524 (CBM-BB-42301); 14 m elev., on trunk of Quercus, 2009 Feb. 9, coll. H.Izumi no. 20090209-08 (CBM-BB-42468); 15 m elev., on trunk of Quercus, 2009 Feb. 9, coll. Y.Kasai no. 20090209-02 (CBM-BB-42477), 20090209-06 (CBM-BB-42481); 2010 Jan. 18, coll. K.Kaneko no. 20100118-09 (CBM-BB-42601); 16 m elev., on trunk of Celtis, 2010 Jan. 18, coll. T.Furuki no. 20100118-04 (CBM-BB-42547); 18 m elev., on trunk of Quercus, 2009 Feb. 9, coll. K.Kaneko no. 20090209-05 (CBM-BB-42518); 19 m elev., on trunk of Carpinus tschonoskii, 2008 June 13, coll. T.Kuramata no. 20080613-10 (CBM-BB-42431). <3441> 千葉市, 10 m elev., on trunk of Zelkovza serrata (50cm), 1993 Jan. 22, coll. H.Suga no. 2999 (CBM-BB-11739); 1993 Jan. 22, coll. H.Suga no. 3001 (CBM-BB-11740), H.Suga no. 3008 (CBM-BB-11743); on trunk of Carpinus, 1993 Jan. 22, coll. H.Suga no. 3010 (CBM-BB-11745); 20 m elev., on trunk of Pinus thunbergii, 1974 Dec. 16, coll. T.Nakamura no. 375 (CBM-BB-873). <3467> 千葉市, 34 m elev., on fallen log, 1994 Dec. 7, coll. H.Suga no. 3984 (CBM-BB-19171). <3475> 千葉市, 11 m elev., on fallen log, 1993 Dec. 9, coll. H.Suga no. 3453 (CBM-BB-16565). <3481> 千葉市, 15 m elev., on trunk of Robinia pseudoacacia, 1988 Dec. 28, coll. T.Nakamura no. 4987 (CBM-BB-3794); 15 m elev., on soil, 1989 Apr. 16, coll. T.Furuki no. 8133 (CBM-BB-17494); 1989 Apr. 16, coll. T.Furuki no. 8134 (CBM-BB-17495); 20 m elev., on trunk of Aphananthe aspera, 1989 Sept. 5, coll. T.Furuki no. 8382 (CBM-BB-8182); on trunk of Celtis jessoensis, 1989 Dec. 6, coll. H.Suga no. 2676 (CBM-BB-8955); on decaying log, 1992 Jan. 20, coll. T.Nakamura no. 5068 (CBM-BB-8246). <3481> 千葉市, 20 m elev., on base of trunk of Carpinus, 1992 Jan. 20, coll. T.Nakamura no. 5065 (CBM-BB-8980). <3504> 八街市, 40 m elev., on trunk, 2015 Nov. 5, coll. T.Hirai no. 151105-03 (CBM-BB-38482). <3924> 千葉市, 18 m elev., on trunk of Carpinus, 1993 Jan. 28, coll. H.Suga no. 3050 (CBM-BB-11757); 30 m elev., on trunk of Carpinus, 1993 Jan. 28, coll. H.Suga no. 3020 (CBM-BB-11751); 1993 Jan. 28, coll. H.Suga no. 3021 (CBM-BB-11752); 1993 Jan. 28, coll. H.Suga no. 3023 (CBM-BB-11753), H.Suga no. 3024 (CBM-BB-11754). <4017> 東金市, 35 m elev., on trunk of Prunus, 1990 Aug. 23, coll. H.Takamiya no. 90139 (CBM-BB-4868). <4034> 東金市, 40 m elev., on decaying log, 1990 Dec. 14, coll. H.Takamiya no. 90198 (CBM-BB-4912). <4036> 東金市, 20 m elev., on trunk, 1991 Feb. 2, coll. T.Furuki no. 9773 (CBM-BB-17877), T.Furuki no. 9783 (CBM-BB-17887). <4059> 東金市, 10 m elev., on trunk, 1977 Jan. 20, coll. H.Takamiya no. 90 (CBM-BB-4175). <4059> 東金市, 8 m elev., on branch, 1989 July 2, coll. H.Takamiya no. 89058 (CBM-BB-4743). <4171> 東金市, 5 m elev., on trunk of Quercus serrata, 1989 Sept. 24, coll. H.Takamiya no. 90146 (CBM-BB-4874). <4269> 袖ヶ浦市, 30 m elev., on trunk of Zelkova serrata, 1996 Dec. 12, coll. T.Kawana no. 96101216 (CBM-BB-22621); 1996 Dec. 12, coll. T.Kawana no. 96101218 (CBM-BB-22623). <4335> 市原市, 15 m elev., on trunk of Ginkgo biloba, 1978 Jan. 04, coll. T.Nakamura no. 1947 (CBM-BB-2132). <4336> 市原市, 40 m elev., on trunk of Ginkgo biloba, 1978 Jan. 04, coll. T.Nakamura no. 1938 (CBM-BB-2123). <4338> 市原市, 20 m elev., on trunk of Ginkgo biloba, 1978 Jan. 04, coll. T.Nakamura no. 1926 (CBM-BB-2114); 30 m elev., on trunk of Ginkgo biloba, 1978 Jan. 4, coll. T.Nakamura no. 1925 (CBM-BB-2113). <4349> 市原市, 10 m elev., on trunk of Zelkova serrata, 1978 Jan. 4, coll. T.Nakamura no. 1921 (CBM-BB-2108). <4391> 袖ヶ浦市, 50 m elev., on trunk of Aphananthe aspera, 1996 Aug. 25, coll. T.Kawana no. 96082503 (CBM-BB-22539). <4466> 長柄町, 100 m elev., on soil, 2007 Nov. 29, coll. T.Furuki no. 21792 (CBM-

BB-35857). <4912> 袖ヶ浦市, 20 m elev., on trunk of Ginkgo biloba, 1996 Aug. 29, coll. T.Furuki no. 13212 (CBM-BB-23293). <4960> 袖ヶ浦市, 40 m elev., on branch, 1996 Aug. 8, coll. T.Furuki no. 13155 (CBM-BB-23236). <5419> 富津市, 6 m elev., on stone wall, 1996 Sept. 6, coll. T.Kawana no. 96090601 (CBM-BB-23465). <543> 野田市, 16.0 m elev., on trunk of Prunus, 2016 Mar. 24, coll. Y.Utsumi & T.Furuki no. 24170 (CBM-BB-38627). <5778> 大多喜町, 80 m elev., on base of trunk of Prunus jamazakura at Quercus, 1994 Dec. 16, coll. H.Takamiya no. 94155 (CBM-BB-18759). <5792> 市原市, 100 m elev., on trunk of Prunus, 1989 Apr. 13, coll. T.Furuki no. 8010 (CBM-BB-17371). <6149> 君津市, 80 m elev., on trunk of Cephalotaxus, 2003 Nov. 15, coll. T.Kawana no. 03111557 (CBM-BB-27841)/ <6700> 富津市, 150 m elev., on soil, 1989 Apr. 20, coll. T.Furuki no. 8174 (CBM-BB-17535). <6842> 鴨川市, 35 m elev., on trunk of Ilex rotunda, 1997 Mar. 20, coll. T.Kawana no. 97032030 (CBM-BB-24110). <6912> 鴨川市, 320 m elev., on rock cliff, 1991 Sept. 29, coll. H.Suga no. 2481 (CBM-BB-9989).

***Cololejeunea kodamae* Kamim. トサノケクサリゴケ**

<6922> 鴨川市, 120 m elev., on trunk, 2016 Mar. 9, coll. T.Furuki no. 24162 (CBM-BB-38619).

***Cololejeunea longifolia* (Mitt.) Benedix ex Mizut. ヒメクサリゴケ**

<6278> 君津市, 185 m elev., on fallen log, 2016 Mar. 3, coll. T.Furuki no. 24087c (CBM-BB-38732). <6391> 鴨川市, 200 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12063 (CBM-BB-21614); on branch, 1995 Mar. 3, coll. T.Furuki no. 12065 (CBM-BB-21616). <6616> 鋸南町, 240 m elev., on cliff, 1994 Dec. 1, coll. T.Furuki no. 11802 (CBM-BB-21344). <6901> 鴨川市, 300 m elev., on decaying log, 1996 Feb. 4, coll. T.Furuki no. 12824B (CBM-BB-21769). <6912> 鴨川市, 275 m elev., on stone wall, 1991 Dec. 2, coll. T.Furuki no. 9845 (CBM-BB-17906).

***Cololejeunea macounii* (Spruce ex Underw.) A.Evans イボヒメクサリゴケ**

<不 明> 君津市, 1937 May 29, coll. M.Tuzize no. 527 (CBM-BB-40247), no. 528 (CBM-BB-40248), no. 529 (CBM-BB-40249), no. 530 (CBM-BB-40250), no. 531 (CBM-BB-40251).

***Cololejeunea magnipapillosa* (Kamim.) P.C.Chen & P.C.Wu カミムラヒメクサリゴケ**

<6278> 君津市, 185 m elev., on trunk, 2016 Mar. 3, coll. T.Furuki no. 24079 (CBM-BB-38536). <6902> 鴨川市, 375 m elev., on fallen log, 2016 Feb. 24, coll. T.Furuki no. 24048 (CBM-BB-38505).

***Cololejeunea magnistyla* (Horik.) Mizut. オオヒモヨウジョウゴケ**

<6297> 君津市, 80 m elev., on rock, 2004 Jan. 24, coll. T.Furuki no. 19752 (CBM-BB-29251); 120 m elev., on rock cliff, 2016 Mar. 9, coll. T.Furuki no. 24161 (CBM-BB-38618); 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24581 (CBM-BB-39498); 320 m elev., on rock cliff, 2019 Feb. 26, coll. T.Furuki no. 25256 (CBM-BB-41732). <6932> 鴨川市, 50 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12057 (CBM-BB-21608). <6932> 鴨川市, 50 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12060 (CBM-BB-21611).

***Cololejeunea ornata* A.Evans ヤマナカヨウジョウゴケ**

<6391> 鴨川市, 200 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12067 (CBM-BB-21618).

***Cololejeunea raduliloba* Steph. ナガシタバヨウジョウゴケ**

<2573> 習志野市, 25 m elev., on trunk of Cinnamomum, 2008 Dec. 13, coll. H.Kaneko, K.Kaneko & T.Furuki no. 080737 (CBM-BB-31581). <4036> 東金市, 20 m elev., on trunk, 1991

Feb. 2, coll. T.Furuki no. 9784 (CBM-BB-17888); 1991 Feb. 2, coll. T.Furuki no. 9785 (CBM-BB-17889). <5790> 市原市, 230 m elev., on trunk of Machilus, 2003 Jan. 31, coll. T.Furuki no. 18462 (CBM-BB-28160). <6139> 君津市, 100 m elev., on trunk of Deutzia, 2004 Feb. 5, coll. T.Kawana no. 04020514 (CBM-BB-28122). <6159> 君津市, 100 m elev., on trunk of Quercus glauca, 2003 Nov. 15, coll. T.Kawana no. 03111538a (CBM-BB-27826). <6195> 富津市, 200 m elev., on trunk of Deutzia crenata, 1997 Mar. 26, coll. T.Furuki no. 13415 (CBM-BB-23901). <6241> 君津市, 80 m elev., on trunk, 2003 Feb. 4, coll. T.Kawana no. 03020426 (CBM-BB-27719), T.Kawana no. 03020428 (CBM-BB-27721). <6258> 君津市, 100 m elev., on tufa covering rocky cliffs, 2019 Feb. 25, coll. T.Furuki no. 25245 (CBM-BB-41721). <6278> 君津市, 185 m elev., on fallen log, 2016 Mar. 3, coll. T.Furuki no. 24087d (CBM-BB-38733). <6288> 君津市, 315 m elev., on trunk, 2016 Mar. 28, coll. T.Furuki no. 24190 (CBM-BB-38647). <6300> 市原市, 110 m elev., on branch, 2004 June 10, coll. T.Furuki no. 19361 (CBM-BB-29049); 115 m elev., on fallen log, 2005 June 14, coll. T.Furuki no. 19859 (CBM-BB-30251). <6301> 市原市, 120 m elev., on rock cliff, 1992 Sept. 8, coll. T.Furuki no. 11179 (CBM-BB-11569). <6391> 鴨川市, 200 m elev., on fallen log, 1995 Mar. 3, coll. T.Furuki no. 12064 (CBM-BB-21615); on branch, 1995 Mar. 3, coll. T.Furuki no. 12066 (CBM-BB-21617). <6710> 富津市, 150 m elev., on trunk, 1989 Apr. 20, coll. T.Furuki no. 8180 (CBM-BB-17541); 1989 Apr. 20, coll. T.Furuki no. 8182 (CBM-BB-17543); 1989 Apr. 20, coll. T.Furuki no. 8183 (CBM-BB-17544). <6901> 鴨川市, 200 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8115 (CBM-BB-17476); 1990 Apr. 1, coll. T.Furuki no. 8561 (CBM-BB-17849). <6922> 鴨川市, 115 m elev., on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24565 (CBM-BB-39482). <6932> 鴨川市, 50 m elev., on trunk, 1995 Mar. 3, coll. T.Furuki no. 12058 (CBM-BB-21609).

***Cololejeunea spinosa* (Horik.) Pandé & R.N.Misra ウニバヨウジョウゴケ**

<6149> 君津市, 80 m elev., on trunk of Euptelea polyandra, 2002 Dec. 6, coll. T.Kawana no. 02120625 (CBM-BB-27628). <6159> 君津市, 100 m elev., on trunk of Quercus glauca, 2003 Nov. 15, coll. T.Kawana no. 03111538b (CBM-BB-27827). <6902> 鴨川市, 340 m elev., 1943 Nov. 23, coll. S.Asano s.n. (CBM-BB-102). <6911> & 6901> 鴨川市, 1937 Aug. 15, coll. M.Tuzize no. 999 (CBM-BB-40721). <6912> 鴨川市, 150 m elev., on leaf of Diplazium, 1987 Aug. 3, coll. H.Takamiya no. 87116 (CBM-BB-4545). <6922> 鴨川市, 122 m elev., on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24576 (CBM-BB-39493); on thallus of liverworts, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24577 (CBM-BB-39494).

***Cololejeunea stylosa* (Steph.) A.Evans オキナワキラゴケ**

<6922> 鴨川市, 122 m elev., on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24579 (CBM-BB-39496).

***Cololejeunea subkodamae* Mizut. タチバヨウジョウゴケ**

<6352> 君津市, 185 m elev., on leaves of fern, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24554 (CBM-BB-39471). <6901> 鴨川市, 250 m elev., on leaves of fern, 2019 Feb. 27, coll. T.Furuki no. 25260g (CBM-BB-41742).

***Cololejeunea trichomanis* (Gottsche) Besch. (= *C. goebelii* (Schiffn.) Schiffn.) ヨウジョウゴケ**

<3481> 千葉市, 20 m elev., on trunk of No.19 tree, 1989 Sept. 5, coll. T.Furuki no. 8402 (CBM-BB-8202). <6159> 君津市, 100 m elev., on trunk of Quercus glauca, 2003 Nov. 15, coll. T.Kawana no. 03111538c (CBM-BB-27828).

***Drepanolejeunea vesiculosa* (Mitt.) Steph. カギゴケ**

<6912> 鴨川市, 300 m elev., on trunk of Cryptomeria, 2003 June 16, coll. T.Furuki no. 18579 (CBM-BB-28275).

***Lejeunea anisophylla* Mont. オガサワラクサリゴケ**

<6780> 南房総市, 340 m elev., on concrete, 2003 Mar. 5, coll. T.Furuki no. 18476 (CBM-BB-28175). <6790> 南房総市, 170 m elev., on rock, 2003 Mar. 5, coll. T.Furuki no. 18472b (CBM-BB-28171). <7496> 館山市, 20 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18534 (CBM-BB-28234). <7700> 南房総市, 25 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18520 (CBM-BB-28220).

***Lejeunea compacta* (Steph.) Steph. コミミゴケ**

<6301> 鴨川市, 200 m elev., on fallen log, 1989 Apr. 13, coll. T.Furuki no. 8087 (CBM-BB-17448).

***Lejeunea discreta* Lindenb. カマハコミミゴケ**

<4028> 東金市, 50 m elev., on trunk, 1991 Feb. 2, coll. T.Furuki no. 9794 (CBM-BB-17898). <4906> 袖ヶ浦市, 80 m elev., on trunk of Ginkgo biloba, 1995 July 23, coll. T.Kawana no. 95072304 (CBM-BB-22426). <5790> 市原市, 280 m elev., on root, 1991 June 5, coll. H.Suga no. 2352 (CBM-BB-9960). <6276> 君津市, 140 m elev., on trunk of hard woods, 2016 Mar. 28, coll. T.Furuki no. 24186 (CBM-BB-38643). <6279> 君津市, 200 m elev., on trunk, 1995 Mar. 2, coll. T.Furuki no. 12033 (CBM-BB-21584); 1995 Mar. 2, coll. T.Furuki no. 12042 (CBM-BB-21593). <6288, 6297> 君津市, 1937 May 30, coll. M.Tuzize no. 546 (CBM-BB-40266). <6301> 鴨川市, 200 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8090 (CBM-BB-17451). <6323> 大多喜町, 160 m elev., on trunk of Zelkova serrata, 1993 Mar. 14, coll. H.Takamiya no. 93031 (CBM-BB-17997). <6353> 大多喜町, 220 m elev., on base of trunk of Quercus serrata, 1993 Dec. 24, coll. H.Takamiya no. 93053 (CBM-BB-18019). <6373> 大多喜町, 310 m elev., on trunk base of Quercus, 1993 Dec. 24, coll. H.Takamiya no. 93078 (CBM-BB-18044). <6901> 鴨川市, 200 m elev., on trunk, 1990 Apr. 1, coll. T.Furuki no. 8586 (CBM-BB-17874). <6911> 君津市, 280 m elev., on soil, 2015 Mar. 19, coll. T.Furuki no. 23853 (CBM-BB-37825). <6912> 鴨川市, 150 m elev., on soil, 1975 Mar. 22, coll. T.Nakamura no. 619 (CBM-BB-975); 275 m elev., on trunk, 1991 Dec. 2, coll. T.Furuki no. 9840 (CBM-BB-17901); 320 m elev., on trunk of Prunus, 1991 Sept. 29, coll. H.Suga no. 2474 (CBM-BB-9982).

***Lejeunea flava* (Sw.) Nees キコミミゴケ**

<3008> 銚子市, 30 m elev., on decaying log, 1989 Sept. 29, coll. T.Furuki no. 9417 (CBM-BB-13607); on trunk, 1989 Sept. 29, coll. T.Furuki no. 9430 (CBM-BB-13620). <5790> 市原市, 200 m elev., on soil, 1992 Nov. 13, coll. T.Furuki no. 11256 (CBM-BB-11612). <6250> 君津市, 200-300 m elev., on trunk, 1993 Dec. 22, coll. T.Furuki no. 11654 (CBM-BB-16899). <6268> 君津市, 140 m elev., on rock cliff, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24511 (CBM-BB-39428). <6301> 市原市, 120 m elev., on trunk of Acer, 1992 Sept. 8, coll. T.Furuki no. 11148 (CBM-BB-11538). <6780> 南房総市, 340 m elev., on trunk of Quercus acuta, 1992 Nov. 18, coll. H.Suga no. 2939 (CBM-BB-13528). <6901> 鴨川市, 200 m elev., on trunk, 1990 Apr. 1, coll. T.Furuki no. 8559 (CBM-BB-17847). <6911> 鴨川市, 300 m elev., on rock cliff, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24488 (CBM-BB-39405).

***Lejeunea japonica* Mitt. ヤマトコミミゴケ**

<0479> 野田市, 12.8 m elev., on rock, 2016 Apr. 8, coll. Y.Utsumi no. 160408-19 (CBM-BB-39309). <1687> 市川市, 15 m elev., on rock, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 22970 (CBM-BB-35795), no. 100706 (CBM-BB-35558), T.Furuki, H.Kaneko & K.Kaneko no. 100771 (CBM-BB-35622); 2012 June 21, coll. T.Furuki, H.Kaneko & K.Kaneko no. 23011 (CBM-BB-35836), 100772 (CBM-BB-35623). <1716> 南房総市, 20 m elev., on trunk of Quercus, 2005 Dec. 14, coll. T.Furuki no. 21041 (CBM-BB-30417). <1757> 白井市, 25 m elev., 2007 Feb. 26, coll. T.Furuki no. 21598 (CBM-BB-31663). <1774> 船橋市, 10 m elev., on trunk, 2010 Jan. 6, coll. H.Kaneko & K.Kaneko no. 090608 (CBM-BB-33977). <1776> 船橋市, 20 m elev., on rock, 2010 Mar. 22, coll. H.Kaneko & K.Kaneko no. 090721 (CBM-BB-34083). <2285> 旭市, 50 m elev., on rock,

1985 Dec. 17, coll. H.Takamiya no. 85108 (CBM-BB-4283). <2402> 市川市, 20 m elev., on trunk, 2010 Dec. 9, coll. H.Kaneko & K.Kaneko no. 100060 (CBM-BB-34924). <2469> 船橋市, 15 m elev., on trunk, 2009 Feb. 21, coll. H.Kaneko & K.Kaneko no. 090097 (CBM-BB-33467). <2614> 佐倉市, 25 m elev., on concrete, 1997 Mar. 6, coll. T.Furuki no. 13365 (CBM-BB-23447). <3008> 銚子市, 30 m elev., on decaying log, 1989 Sept. 29, coll. T.Furuki no. 9394 (CBM-BB-13584), T.Furuki no. 9413 (CBM-BB-13603). <3423> 四街道市, 30 m elev., on trunk of *Prunus mume*, 1975 Dec. 14, coll. T.Nakamura no. 4022 (CBM-BB-1205). <3587> 東金市, 55 m elev., on trunk of *Castanopsis sieboldii*, 1989 Aug. 2, coll. H.Takamiya no. 89089 (CBM-BB-4749). <4009> 東金市, 50 m elev., on trunk of *Castanopsis sieboldii*, 1989 Sept. 10, coll. H.Takamiya no. 89173 (CBM-BB-4691). <4038> 東金市, 40 m elev., on ledge, 1990 July 7, coll. H.Takamiya no. 90038 (CBM-BB-4786). <4046> 東金市, 35 m elev., on trunk of *Cinnamomum camphora*, 1989 Sept. 17, coll. H.Takamiya no. 89175 (CBM-BB-4717). <4906> 袖ヶ浦市, 80 m elev., on trunk of *Ginkgo biloba*, 1995 July 23, coll. T.Kawana no. 95072303 (CBM-BB-22425). <4960> 袖ヶ浦市, 40 m elev., on rock, 1996 Aug. 8, coll. T.Furuki no. 13152 (CBM-BB-23233). <5026> 長南町, m elev., on trunk, 1976 Sept. 10, coll. H.Takamiya no. 76023 (CBM-BB-4128). <5155> 睦沢町, 50 m elev., on humus, 1991 Aug. 27, coll. H.Takamiya no. 91047 (CBM-BB-9828). <5176> 睦沢町, 60 m elev., on soil, 1991 Aug. 26, coll. H.Takamiya no. 91028 (CBM-BB-9811). <5183> 睦沢町, 70 m elev., on clay, 1990 Nov. 17, coll. H.Takamiya no. 90409 (CBM-BB-9772). <5189>, 一宮町, 30 m elev., on trunk, 1987 June 7, coll. H.Takamiya no. 87120 (CBM-BB-4330). <5192> 睦沢町, 75 m elev., on base of trunk, 1990 Nov. 17, coll. H.Takamiya no. 90379 (CBM-BB-9755). <5571> 富津市, 20 m elev., on stone wall, 1997 Mar. 8, coll. T.Kawana no. 97030812 (CBM-BB-24032). <5758> 大多喜町, 110 m elev., on rock, 1994 Nov. 27, coll. H.Takamiya no. 94127 (CBM-BB-18731). <5790> 市原市, 200 m elev., on rock, 1992 Nov. 13, coll. T.Furuki no. 11246 (CBM-BB-11602); on soil, 1991 June 5, coll. T.Furuki no. 9803 (CBM-BB-11520), 9804 (CBM-BB-11521); on stone lantern, 1991 June 5, coll. T.Furuki no. 9810 (CBM-BB-11527), 9812 (CBM-BB-11529); 280 m elev., on stone lantern, coll. H.Suga no. 2348 (CBM-BB-9957). <5792> 市原市, 150 m elev., on trunk, 1988 May 29, coll. H.Takamiya no. 88117 (CBM-BB-4364). <5797> 大多喜町, 80 m elev., on trunk, 1988 July 10, coll. H.Takamiya no. 88118 (CBM-BB-4410). <5802> 睦沢町, 80 m elev., on rock, 1987 June 28, coll. H.Takamiya no. 87121 (CBM-BB-4471). <6079> 富津市, 30 m elev., on soil, 1989 Apr. 20, coll. T.Furuki no. 8141 (CBM-BB-17502). <6085> 富津市, 8 m elev., on stone wall, 1997 Mar. 20, coll. T.Kawana no. 97032022 (CBM-BB-24109). <6089> 富津市, 50 m elev., on soil, 1989 Apr. 20, coll. T.Furuki no. 8147 (CBM-BB-17508); 50 m elev., on rock, 1989 Apr. 20, coll. T.Furuki no. 8148 (CBM-BB-17509); 75 m elev., on trunk, 1989 Apr. 20, coll. T.Furuki no. 8153 (CBM-BB-17514). <6149> 君津市, 80 m elev., on trunk of *Euptelea polyandra*, 2002 Dec. 6, coll. T.Kawana no. 02120609 (CBM-BB-27618). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17803 (CBM-BB-28073); 2002 Dec. 23, coll. T.Furuki no. 17814 (CBM-BB-28085); on trunk of *Euptelea polyandra*, 2003 Nov. 15, coll. T.Kawana no. 03111513 (CBM-BB-27802); 2003 Dec. 3, coll. T.Kawana no. 03120331 (CBM-BB-27928); 170 m elev., on boulder, 2002 Aug. 28, coll. T.Kawana no. 02082822 (CBM-BB-27473). <6195> 富津市, 200 m elev., 1997 Mar. 26, coll. T.Furuki no. 13416 (CBM-BB-23902). <6231> 君津市, 100 m elev., on sand rock, 2002 Nov. 29, coll. T.Kawana no. 02112961 (CBM-BB-27599). <6250> 君津市, 100 m elev., on trunk of *Deutzia crenata*, 2003 Nov. 18, coll. T.Kawana no. 03111817 (CBM-BB-27852). <6251> 君津市, 150 m elev., on rock cliff, 2002 Nov. 18, coll. T.Kawana no. 02111808 (CBM-BB-27523). <6260> 君津市, 200-300 m elev., on trunk, 1993 Dec. 22, coll. T.Furuki no. 11673 (CBM-BB-16918). <6279> 君津市, 230 m elev., on trunk of deciduous trees, 2015 Mar. 11, coll. T.Furuki no. 23754 (CBM-BB-37544); 200 m elev., on fallen log, 1995 Mar. 2, coll. T.Furuki no. 12039 (CBM-BB-21590). <6316> 大

多喜町, on mosses, 1974 Dec. 18, coll. S.Asano no. 28 (CBM-BB-335). <6361> 鴨川市, 200 m elev., on trunk, 2001 Jan. 12, coll. T.Furuki no. 16551 (CBM-BB-25351). <6377> 大多喜町, 210 m elev., on clay, 1994 Mar. 15, coll. H.Takamiya no. 94053 (CBM-BB-18657). <6380> 鴨川市, 250 m elev., on soil, 1995 Mar. 20, coll. H.Takamiya no. 95065 (CBM-BB-21048). <6389> 大多喜町, 230 m elev., on trunk base, 1993 Nov. 14, coll. H.Takamiya no. 93138 (CBM-BB-18103). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no. 8235 (CBM-BB-17593). <6616> 鋸南町, 27 m elev., on rock, 2018 Dec. 9, coll. T.Furuki no. 25042 (CBM-BB-41480); 240 m elev., 1994 Dec. 1, coll. T.Furuki no. 11803 (CBM-BB-21345). <6700> 富津市, 150 m elev., on rock, 1989 Apr. 20, coll. T.Furuki no. 8175 (CBM-BB-17536); 150 m elev., on rock, 1989 Apr. 20, coll. T.Furuki no. 8177 (CBM-BB-17538). <6773> 南房総市, 320 m elev., on stone wall, 1992 Nov. 11, coll. H.Suga no. 2875 (CBM-BB-13464); 320 m elev., on base of trunk of *Weigera*, 1992 Nov. 11, coll. H.Suga no. 2876 (CBM-BB-13465). <6780> 南房総市, 320 m elev., on stone wall, 1992 Nov. 18, coll. H.Suga no. 2942 (CBM-BB-13531). <6811> 君津市, 250 m elev., on decaying log, 2002 Dec. 19, coll. T.Kawana no. 02121924 (CBM-BB-27666); on rock cliff, 2002 Dec. 19, coll. T.Kawana no. 02122123 (CBM-BB-27680). <6872> 鴨川市, 250 m elev., on rock, 1986 Aug. 11, coll. H.Takamiya no. 86092 (CBM-BB-4299). <6901> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8111 (CBM-BB-17472); 250 m elev., on trunk, 2004 Dec. 4, coll. T.Furuki no. 19605 (CBM-BB-29100). <6903> 鴨川市, 230 m elev., on clay, 1995 Dec. 22, coll. H.Takamiya no. 95136 (CBM-BB-21119). <6911> 鴨川市, 290 m elev., on fallen log, 2015 June 25, coll. T.Furuki no. 23890 (CBM-BB-37863); on decaying log, 2015 June 25, coll. T.Furuki no. 23894 (CBM-BB-37867). <6912> 鴨川市, 340 m elev., on boulder, 1944 July 16, coll. S.Asano no. 12 (CBM-BB-120). <6912> 鴨川市, 200 m elev., on rock, 1987 Aug. 3, coll. H.Takamiya no. 87119 (CBM-BB-4548); 275 m elev., on stone wall, 1991 Dec. 4, coll. T.Furuki no. 9846 (CBM-BB-17907). <6924> 鴨川市, 150 m elev., on soil, 1995 Mar. 15, coll. H.Takamiya no. 95043 (CBM-BB-21026). <6932> 鴨川市, 80 m elev., on stone wall, 1996 Dec. 10, coll. H.Takamiya no. 96117 (CBM-BB-22946). <7042> 勝浦市, 20 m elev., on rock, 1997 Mar. 13, coll. T.Furuki no. 13381 (CBM-BB-23867).

Lejeunea parva (S.Hatt.) Mizut. イトコミミゴケ

<6195> 富津市, 200 m elev., on rock, 1997 Mar. 26, coll. T.Furuki no. 13421 (CBM-BB-23907). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no. 8236 (CBM-BB-17594); on rock, 1989 June 15, coll. T.Nakamura s.n. (CBM-BB-17717). <6616> 鋸南町, 240 m elev., on cliff, 1994 Dec. 1, coll. T.Furuki no. 11804 (CBM-BB-21346); 250 m elev., on rock cliff, 1989 June 15, coll. T.Furuki no. 8264 (CBM-BB-17621). <6911> 君津市, 280 m elev., on rock cliff, 2015 Mar. 11, coll. T.Furuki no. 23714 (CBM-BB-37504); 2015 Mar. 19, coll. T.Furuki no. 23859 (CBM-BB-37831). <6932> 鴨川市, 50 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12061 (CBM-BB-21612). <7042> 勝浦市, 20 m elev., on cliff, 1997 Mar. 13, coll. T.Furuki no. 13384 (CBM-BB-23870).

Leptolejeunea elliptica (Lehm. & Lindenb.) Besch. カビゴケ

<5782> 市原市, 100 m elev., on leaves, 2013 June 27, coll. T.Furuki no. 23283 (CBM-BB-36977). <5790> 市原市, 230 m elev., on trunk of *Machilus*, 2003 Jan. 31, coll. T.Furuki no. 18463 (CBM-BB-28161). <6138> 君津市, 100 m elev., on trunk of *Aucuba*, 2003 Feb. 6, coll. T.Kawana no. 04020637 (CBM-BB-28147); on leaves of herb, 2003 Feb. 6, coll. T.Kawana no. 04020638 (CBM-BB-28148); on leaves of *Rubus*, 2003 Feb. 6, coll. T.Kawana no. 04020639 (CBM-BB-28149); on leaves of herb, 2003 Feb. 6, coll. T.Kawana no. 04020640 (CBM-BB-28150); on trunk of *Phyllostachys*, 2003 Feb. 6, coll. T.Kawana no. 04020641 (CBM-BB-28151); on leaves of fern, 2003 Feb. 6, coll. T.Kawana no. 04020642 (CBM-BB-28152); on leaves of fern, 2003 Feb. 6, coll. T.Kawana no. 04020643 (CBM-BB-28153); on leaves of *Aucuba*, 2003 Feb. 6, coll. T.Kawana

no. 04020644 (CBM-BB-28154); 120 m elev., on trunk of *Phyllostachys*, 2003 Feb. 6, coll. T.Kawana no. 04020634 (CBM-BB-28144). <6139> 君津市, 100 m elev., on trunk of *Aucuba*, 2003 Feb. 6, coll. T.Kawana no. 04020605 (CBM-BB-28126); on trunk of *Rubus*, 2003 Feb. 6, coll. T.Kawana no. 04020606 (CBM-BB-28127). <6159> 君津市, 100 m elev., on leaves, 2003 Nov. 15, coll. T.Kawana no. 03111533 (CBM-BB-27821), 03111534 (CBM-BB-27822); 2003 Nov. 15, coll. T.Kawana no. 03111535 (CBM-BB-27823); 2003 Dec. 3, coll. T.Kawana no. 03120328 (CBM-BB-27925), 03120329 (CBM-BB-27926); 2003 Dec. 4, coll. T.Kawana no. 03120401 (CBM-BB-27979), 03120402 (CBM-BB-27980), 03120403 (CBM-BB-27981), 03120404 (CBM-BB-27982), 03120405 (CBM-BB-27983), 03120406 (CBM-BB-27984), 03120407 (CBM-BB-27985), 03120409 (CBM-BB-27987), 03120410 (CBM-BB-27988), 03120411 (CBM-BB-27989), 03120412 (CBM-BB-27990), 03120413 (CBM-BB-27991), 03120414 (CBM-BB-27992), 03120415 (CBM-BB-27993); on fallen log, 2003 Dec. 4, coll. T.Kawana no. 03120417 (CBM-BB-27995). <6250> 君津市, 100 m elev., on leaves, 2003 Nov. 18, coll. T.Kawana no. 03111811 (CBM-BB-27846), 03111814 (CBM-BB-27849); 2003 Nov. 24, coll. T.Kawana no. 03112416 (CBM-BB-27884), 03112434 (CBM-BB-27899), 03112435 (CBM-BB-27900), 03112436 (CBM-BB-27901), 03112437 (CBM-BB-27902), 03112438 (CBM-BB-27903), 03112439 (CBM-BB-27904), 03112440 (CBM-BB-27905), 03112441 (CBM-BB-27906), 03112442 (CBM-BB-27907); 200-300 m elev., on leaves, 1993 Dec. 22, coll. T.Furuki no. 11651 (CBM-BB-16896). <6251> 君津市, 150 m elev., on leaves, 2002 Nov. 29, coll. T.Kawana no. 02112953 (CBM-BB-27591), T.Kawana no. 02112954 (CBM-BB-27592), 02112955 (CBM-BB-27593), 02112956 (CBM-BB-27594), 02112957 (CBM-BB-27595), 02112958 (CBM-BB-27596), 02112959 (CBM-BB-27597), 02112960 (CBM-BB-27598); 2003 Dec. 3, coll. T.Kawana no. 03120340 (CBM-BB-27938), 03120341 (CBM-BB-27939), 03120342 (CBM-BB-27940), 03120343 (CBM-BB-27941), 03120344 (CBM-BB-27942), 03120345 (CBM-BB-27943), 03120346 (CBM-BB-27944), 03120347 (CBM-BB-27945), 03120348 (CBM-BB-27946), 03120349 (CBM-BB-27947), 03120350 (CBM-BB-27948), 03120351 (CBM-BB-27949), 03120352 (CBM-BB-27950), 03120353 (CBM-BB-27951), 03120354 (CBM-BB-27952), 03120355 (CBM-BB-27953), 03120356 (CBM-BB-27954), 03120357 (CBM-BB-27955), 03120358 (CBM-BB-27956), 03120359 (CBM-BB-27957), 03120360 (CBM-BB-27958), 03120361 (CBM-BB-27959), 03120362 (CBM-BB-27960), 03120363 (CBM-BB-27961), 03120364 (CBM-BB-27962), 03120365 (CBM-BB-27963), 03120366 (CBM-BB-27964), 03120367 (CBM-BB-27965), 03120368 (CBM-BB-27966), 03120369 (CBM-BB-27967), 03120370 (CBM-BB-27968), 03120371 (CBM-BB-27969), 03120372 (CBM-BB-27970), 03120373 (CBM-BB-27971), 03120374 (CBM-BB-27972), 03120375 (CBM-BB-27973), 03120376 (CBM-BB-27974), 03120377 (CBM-BB-27975), 03120378 (CBM-BB-27976), 03120379 (CBM-BB-27977). <6258> 君津市, 115 m elev., on leaves, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24523 (CBM-BB-39440). <6267> 君津市, 100 m elev., on leaves, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24534 (CBM-BB-39451). <6268> 君津市, 140 m elev., on leaves, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24510 (CBM-BB-39427). <6276> 君津市, 140 m elev., on trunk, 2016 Mar. 28, coll. T.Furuki no. 24183 (CBM-BB-38640); 185 m elev., on fallen log, 2016 Mar. 3, coll. T.Furuki no. 24076 (CBM-BB-38533). <6278> 君津市, 185 m elev., on fallen log, 2016 Mar. 3, coll. T.Furuki no. 24077 (CBM-BB-38534), no. 24087b (CBM-BB-38731). <6279> 君津市, 200 m elev., on leaves, 1995 Mar. 2, coll. T.Nakamura no. 95001 (CBM-BB-20834), no. 95009 (CBM-BB-20842); on leaves, 1995 Mar. 2, coll. T.Furuki no. 12028B (CBM-BB-21579); on fallen log, 1995 Mar. 2, coll. T.Furuki no. 12037 (CBM-BB-21588). <6300> 市原市, 110 m elev., on leaves, 2004 June 10, coll. T.Furuki no. 19367 (CBM-BB-29055); 2004 June 10, coll. T.Furuki no. 19368 (CBM-BB-29056); 市原市, 115 m elev., on leaves, 2005 June 14, coll. T.Furuki no.

19861 (CBM-BB-30253). <6301> 市原市, 85 m elev., on leaves, 2016 Nov. 19, coll. T.Furuki no. 24440 (CBM-BB-39125); 120 m elev., on leaves, 1992 Dec. 18, coll. T.Furuki no. 11345 (CBM-BB-11701); 鴨川市, 200 m elev., on branch, 1989 Apr. 13, coll. T.Furuki no. 8083 (CBM-BB-17444). <6392> 鴨川市, on leaf of *Cinnamomum japonicum*, 1987 Jan. 19, coll. T.Nakamura no. 4708 (CBM-BB-3658); 1987 Jan. 19, coll. T.Nakamura no. 4709 (CBM-BB-3659). <6393> 鴨川市, 300 m elev., on leaves, 2010 June 9, coll. M.Amano s.n. (CBM-BB-39375). <6811> 君津市, 250 m elev., on leaves of *Mallotus japonicus*, 2002 Dec. 19, coll. T.Kawana no. 02121920 (CBM-BB-27662). <6901> 鴨川市, 200 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8114 (CBM-BB-17475); on leaves, 1989 Apr. 13, coll. T.Furuki no. 8121 (CBM-BB-17482); 鴨川市, 250 m elev., on leaves, 2019 Feb. 27, coll. T.Furuki no. 25260j (CBM-BB-41745); 鴨川市, 2004 June 10, coll. T.Furuki no. 19369 (CBM-BB-29057); 鴨川市, 270 m elev., on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24582 (CBM-BB-39499). <6911 & 6901> 鴨川市, 1937 Aug. 15, coll. M.Tuzize no. 998 (CBM-BB-40720); 1937 Aug. 15, coll. M.Tuzize no. 1000 (CBM-BB-40722). <6913> 鴨川市, 125 m elev., on leaves, 2016 Mar. 9, coll. T.Furuki no. 24154 (CBM-BB-38611). <不明> 大多喜町, 60 m elev., on leaves of tree, 2017 Dec. 3, coll. T.Furuki no. 24724 (CBM-BB-41143).

Microlejeunea ulicina (Taylor) Steph. (= *Lejeunea ulicina* (Taylor) Gottsche, Lindenb. & Nees) コクサリゴケ

<0479> 野田市, 12.8 m elev., on trunk, 2016 Apr. 8, coll. Y.Utsumi no. 160408-50 (CBM-BB-39340). <0584> 野田市, 6 m elev., on decaying log, 2015 Mar. 11, coll. Y.Utsumi no. 150311-4 (CBM-BB-38268). <0903> 野田市, 12 m elev., on trunk, 2015 May 1, coll. Y.Utsumi no. 150501-28 (CBM-BB-38335). <1687> 市川市, 15 m elev., on trunk, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 22949 (CBM-BB-35776). <1697> 市川市, 20 m elev., on trunk of *Cerasus*, 2012 Feb. 9, coll. H.Kaneko & K.Kaneko no. 100461 (CBM-BB-35317). <1753> 南房総市, 25 m elev., on trunk of *Prunus*, 2005 Dec. 14, coll. T.Furuki no. 21010 (CBM-BB-30386). <1774> 船橋市, 10 m elev., on trunk, 2010 Jan. 6, coll. H.Kaneko & K.Kaneko no. 090609 (CBM-BB-33978). <2412> 市川市, 20 m elev., on trunk, 2010 Dec. 9, coll. H.Kaneko & K.Kaneko no. 100034 (CBM-BB-34898); on trunk of *Cinnamomum*, 2012 Mar. 28, coll. H.Kaneko & K.Kaneko no. 100531 (CBM-BB-35387). <2504> 船橋市, 30 m elev., on trunk, 2010 Apr. 24, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090765 (CBM-BB-34127). <2544> 船橋市, 15 m elev., on trunk, 2009 Sept. 4, coll. H.Kaneko & K.Kaneko no. 090403 (CBM-BB-33772). <2562> 船橋市, 20 m elev., on trunk, 2010 Mar. 18, coll. H.Kaneko & K.Kaneko no. 090677 (CBM-BB-34039). <2571> 習志野市, 20 m elev., on trunk, 2008 Nov. 7, coll. K.Kaneko no. 080645 (CBM-BB-31489). <2648> 佐倉市, 10 m elev., on trunk, 1999 Nov. 8, coll. T.Furuki no. 16277 (CBM-BB-24971). <3329> 千葉市, 8 m elev., on base of trunk of *Carpinus*, 1993 Jan. 20, coll. H.Suga no. 2980 (CBM-BB-11734). <3359> 千葉市, 18 m elev., on decaying log, 1975 Dec. 10, coll. T.Nakamura no. 3972 (CBM-BB-1155). <3431> 千葉市, 15 m elev., on trunk of *Celtis*, 2010 Jan. 18, coll. Y.Hagiwara no. 20100118-04 (CBM-BB-42626). <4028> 東金市, 30 m elev., 2001 Nov. 28, coll. T.Furuki no. 17079 (CBM-BB-25641). <4082> 千葉市, 90 m elev., on trunk of *Prunus*, 1995 Sept. 22, coll. H.Suga no. 4196 (CBM-BB-20930). <4296> 袖ヶ浦市, 10 m elev., on trunk of *Machilus thunbergii*, 1996 Sept. 1, coll. T.Furuki no. 13219 (CBM-BB-23300). <4335> 市原市, 10 m elev., on trunk of *Quercus serrata*, 1978 Jan. 04, coll. T.Nakamura no. 1946 (CBM-BB-2131). <4337> 市原市, 30 m elev., on trunk of *Ginkgo biloba*, 1978 Jan. 04, coll. T.Nakamura no. 1930 (CBM-BB-2116). <43XX> 市原市, 30 m elev., on trunk of *Quercus serrata*, 1978 Jan. 04, coll. T.Nakamura no. 1949 (CBM-BB-2134). <4960> 袖ヶ浦市, 40 m elev., on trunk of *Illicium anisatum*, 1996 Aug. 8, coll. T.Furuki no. 13158 (CBM-BB-23239). <4961> 袖ヶ浦市, 40 m elev., on decaying *Neolitsea sericera*, 1996 Dec. 4, coll. T.Kawana no. 96100412 (CBM-BB-22763). <5790> 市

原 市, 200 m elev., on trunk, 1992 Nov. 13, coll. T.Furuki no. 11258 (CBM-BB-11614). <6251> 君津市, 150 m elev., on trunk of *Quercus serrata*, 2002 Nov. 29, coll. T.Kawana no. 02112915 (CBM-BB-27552). <6258> 君津市, 95 m elev., on decaying log, 2015 Mar. 19, coll. T.Furuki no. 23874 (CBM-BB-37846). <6260> 君津市, 200-300 m elev., on fallen log, 1993 Dec. 22, coll. T.Furuki no. 11684 (CBM-BB-16929). <6278> 君津市, 185 m elev., on fallen log, 2016 Mar. 3, coll. T.Furuki no. 24087 (CBM-BB-38544). <6301> 市原市, 150 m elev., on trunk of *Prunus*, 1989 Apr. 13, coll. T.Furuki no. 8058 (CBM-BB-17419). <6780> 南房総市, 345 m elev., on trunk of *Quercus acuta*, 1992 Nov. 18, coll. H.Suga no. 2937 (CBM-BB-13526). <6901> 鴨川市, 270 m elev., on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24585 (CBM-BB-39502). <6902> 鴨川市, 375 m elev., on fallen log, 2016 Feb. 24, coll. T.Furuki no. 24049 (CBM-BB-38506). <6904> 鴨川市, 150 m elev., on soil, 1995 Mar. 15, coll. H.Takamiya no. 95013 (CBM-BB-20996). <6912> 鴨川市, 150 m elev., on trunk, 1987 Aug. 3, coll. H.Takamiya no. 87118 (CBM-BB-4547). <6922> 鴨川市, 122 m elev., on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24580 (CBM-BB-39497).

Myriocoleopsis minutissima (Sm.) R.L.Zhu, Y.Yu & Pócs (= *Cololejeunea minutissima* (Sm.) Schiffn.) マルバヒメクスリゴケ

<6278> 君津市, 185 m elev., on fallen log, 2016 Mar. 3, coll. T.Furuki no. 24087e (CBM-BB-38734). <6780> 南房総市, 340 m elev., on trunk, 2003 Mar. 5, coll. T.Furuki no. 18478 (CBM-BB-28177). <6912> 鴨川市, 275 m elev., on stone wall, 1991 Dec. 4, coll. T.Furuki no. 9850 (CBM-BB-17911); 320 m elev., on branch, 1991 Sept. 29, coll. H.Suga no. 2469 (CBM-BB-9977).

Ptychanthus striatus (Lehm. & Lindenb.) Nees シダレゴヘイゴケ

<6912> 鴨川市, on trunk, 16940, coll. T.Namegata no. 80 (CBM-BB-17080).

Tuyamaella molischii (Schiffn.) S.Hatt. モーリッシュシゲリゴケ

<6391> 鴨川市, 180 m elev., on leaves of *Cinnamomum japonica*, 1987 Jan. 19, coll. T.Nakamura no. 4709b (CBM-BB-39393). <6811> 君津市, 250 m elev., on trunk of *Mallotus japonicus*, 2002 Dec. 19, coll. T.Kawana no. 02121925 (CBM-BB-27667). <6922> 鴨川市, 115 m elev., on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24564 (CBM-BB-39481).

Lepidoziaceae ムチゴケ科

Bazzania japonica (Sande Lac.) Lindb. ヤマトムチゴケ

<6257> 君津市, 281 m elev., 1971 Nov. 28, coll. F.Ohshima no. 1054 (CBM-BB-24795). <6280> 君津市, 260 m elev., on soil, 1990 May 31, coll. T.Nakamura no. 5090 (CBM-BB-4071). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11626 (CBM-BB-16871). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11636 (CBM-BB-16881). <6390> 鴨川市, 190 m elev., on rotten log, 1995 Mar. 20, coll. H.Takamiya no. 95080 (CBM-BB-21063). <6902> 鴨川市, 340 m elev., on trunk of *Cryptomeria*, 1964 Feb. 23, coll. S.Asano no. 49 (CBM-BB-269).

Bazzania pompeana (Sande Lac.) Mitt. ムチゴケ

<6159> 君津市, 100 m elev., on humus, 2002 Dec. 23, coll. T.Furuki no. 17827 (CBM-BB-28098). <6251> 君津市, 150 m elev., on soil, 2002 Nov. 29, coll. T.Kawana no. 02112946 (CBM-BB-27584); 30 m elev., on rock, 1976 July 30, coll. T.Nakamura no. 1117a (CBM-BB-1461); 1976 July 30, coll. T.Nakamura no. 1122b (CBM-BB-1479). <6257> 君津市, 281 m elev., 1971 Nov. 28, coll. F.Ohshima no. 1053 (CBM-BB-24794). <6260> 君津市, 150250 m elev., on rocks, 1976 Sept. 5, coll. T.Nakamura no. 1276 (CBM-BB-1531). <6267> 君津市, 100 m elev., on base of trunks, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24532 (CBM-BB-39449). <6278> 君津市, 200 m elev., on soil, 2016 Mar. 3, coll. T.Furuki no. 24113 (CBM-BB-38570). <6279> 君津市, 320 m elev., 2001 Feb. 13, coll. T.Ohba n.s.

(CBM-BB-39395). <6281> 君津市, 150 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88073 (CBM-BB-4580). <6286> 君津市, 170 m elev., on soil, 2016 Mar. 28, coll. T.Furuki no. 24224 (CBM-BB-38681). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11635 (CBM-BB-16880). <6300> 市原市, 110 m elev., on rock cliff, 2004 June 10, coll. T.Furuki no. 19358 (CBM-BB-29046). <6301> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8081 (CBM-BB-17442). <6316> 大多喜町, on soil, 1974 Nov. 6, coll. S.Asano no. 8 (CBM-BB-357). <6391> 鴨川市, 220 m elev., on soil, 1996 Mar. 30, coll. H.Takamiya no. 96073 (CBM-BB-22902). <6811> 君津市, 250 m elev., on soil, 2002 Dec. 19, coll. T.Kawana no. 02121926 (CBM-BB-27668). <6901> 鴨川市, 270 m elev., on rock, 1995 Mar. 28, coll. H.Takamiya no. 96027 (CBM-BB-22856). <6902> 鴨川市, 150 m elev., on rock, 1976 Aug. 10, coll. H.Takamiya no. 76011 (CBM-BB-4116). <6932> 鴨川市, 210 m elev., on stump, 1996 Dec. 10, coll. H.Takamiya no. 96115 (CBM-BB-22944). <不明> 君津市, 1937 May 29, coll. M.Tuzize no. 525 (CBM-BB-40245), no. 526 (CBM-BB-40246).

Bazzania tridens (Reinw., Blume & Nees) Trevis. (= *B. albicans* Steph.) コムチゴケ

<5182> 睦沢町, 90 m elev., on root of tree, 1992 Aug. 30, coll. H.Takamiya no. 92036 (CBM-BB-13275). <6149> 君津市, 80 m elev., on soil, 2002 Dec. 6, coll. T.Kawana no. 02120638 (CBM-BB-27641). <6247> 君津市, 150 m elev., on rock, 1989 Aug. 24, coll. T.Furuki no. 8336 (CBM-BB-17692). <6251> 君津市, 150 m elev., on trunk of *Abies firma*, 2002 Dec. 1, coll. T.Kawana no. 02121224 (CBM-BB-27615). <6260> 君津市, 200-300 m elev., on trunk, 1993 Dec. 22, coll. T.Furuki no. 11678 (CBM-BB-16923). <6279> 君津市, 230 m elev., on rotten log of *Cryptomeria*, 2015 Mar. 11, coll. T.Furuki no. 23780 (CBM-BB-37570); 240 m elev., on rotten log of *Cryptomeria*, 2015 Mar. 11, coll. T.Furuki no. 23728 (CBM-BB-37518). <6281> 君津市, 200 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88074 (CBM-BB-4336). <6288> 君津市, 315 m elev., on soil, 2016 Mar. 28, coll. T.Furuki no. 24188 (CBM-BB-38645). <6291> 君津市, 250 m elev., on humus, 2000 Dec. 17, coll. T.Ohba & Y.Kimura n.s. (CBM-BB-27457). <6380> 鴨川市, 260 m elev., on rotten log, 1995 Mar. 20, coll. H.Takamiya no. 95069 (CBM-BB-21052). <6390> 鴨川市, 180 m elev., on decaying log, 1995 Mar. 20, coll. H.Takamiya no. 95083 (CBM-BB-21066). <6391> 鴨川市, 220 m elev., on soil, 1996 Mar. 30, coll. H.Takamiya no. 96072 (CBM-BB-22901). <6392> 鴨川市, on rock, 1987 Nov. 15, coll. T.Nakamura no. 4802 (CBM-BB-3752). <6393> 大多喜町, 250 m elev., on trunk, 1988 June 19, coll. H.Takamiya no. 88075 (CBM-BB-4383). <6901> 鴨川市, 300 m elev., on trunk, 1995 Mar. 28, coll. H.Takamiya no. 96016 (CBM-BB-22845). <6902> 鴨川市, 310 m elev., on decaying log, 1996 Mar. 29, coll. H.Takamiya no. 96028 (CBM-BB-22857). <6902> 鴨川市, on trunk, 1950 May 19, coll. T.Namegata s.n. (CBM-BB-17090); 340 m elev., on decaying log, 1964 Feb. 23, coll. S.Asano no. 43 (CBM-BB-266); on trunk of *Castanopsis*, 1964 Feb. 23, coll. S.Asano no. 45 (CBM-BB-267); on trunk of *Cryptomeria*, 1964 Feb. 23, coll. S.Asano no. 48 (CBM-BB-268); on trunk of *Quercus acuta*, coll. S.Asano no. 51 (CBM-BB-271); on decaying log, coll. S.Asano no. 54 (CBM-BB-274); on decaying log, S.Asano s.n. (CBM-BB-299); 1944 June 4, coll. S.Asano s.n. (CBM-BB-110); 1944 June 4, coll. S.Asano s.n. (CBM-BB-111). <6904> 鴨川市, 160 m elev., on soil, 1995 Mar. 15, coll. H.Takamiya no. 95009 (CBM-BB-20992). <6912> 鴨川市, 200 m elev., on decaying log, 1987 Aug. 3, coll. H.Takamiya no. 87068 (CBM-BB-4536). <6913> 鴨川市, 230 m elev., on fallen log of *Cryptomeria japonica*, 1996 Dec. 10, coll. H.Takamiya no. 96097 (CBM-BB-22926). <6924> 鴨川市, 140 m elev., on rotten log, 1995 Mar. 15, coll. H.Takamiya no. 95050 (CBM-BB-21033). <6942> 鴨川市, 90 m elev., on fallen log, 1996 Dec. 10, coll. H.Takamiya no. 96137 (CBM-BB-22966). <6956> 鴨川市, 70 m elev., on stump, 1996 Dec. 14, coll. H.Takamiya no. 96156 (CBM-BB-22985).

Kurzia makinoana (Steph.) Grolle コスギバゴケ

<6616> 鋸南町, 250 m elev., on rock cliff, 1989 June 15, coll. T.Furuki no. 8273 (CBM-BB-17630).

Lepidozia vitrea Steph. スギバゴケ

<4028> 東金市, 25 m elev., on soil, 2016 Feb. 7, coll. T.Furuki no. 24035 (CBM-BB-38152). <4046> 東金市, 30 m elev., on clay, 1989 Sept. 17, coll. H.Takamiya no. 89186 (CBM-BB-4689). <4089> 東金市, 6 m elev., among humus, 1989 June 11, coll. H.Takamiya no. 89029 (CBM-BB-4638). <5182> 睦沢町, 90 m elev., on soil, 1992 Aug. 30, coll. H.Takamiya no. 92037 (CBM-BB-13276). <6250> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 22, coll. T.Furuki no. 11659 (CBM-BB-16904). <6281> 君津市, 200 m elev., on soil, 1988 Apr. 24, coll. H.Takamiya no. 88076 (CBM-BB-4337). <6290> 君津市, 200-300 m elev., on soil, 1993 Dec. 21, coll. T.Furuki no. 11639 (CBM-BB-16884); 300 m elev., on soil, 1992 Apr. 12, coll. T.Furuki no. 10250 (CBM-BB-29038). <6297> 君津市, 225 m elev., on soil, 2016 Mar. 28, coll. T.Furuki no. 24213 (CBM-BB-38670). <6373> 大多喜町, 300 m elev., on soil, 1993 Dec. 24, coll. H.Takamiya no. 93076 (CBM-BB-18042). <6380> 鴨川市, 280 m elev., on soil, 1995 Mar. 20, coll. H.Takamiya no. 95062 (CBM-BB-21045). <6385> 大多喜町, 170 m elev., on soil, 1993 Nov. 7, coll. H.Takamiya no. 93091 (CBM-BB-18056). <6389> 大多喜町, 240 m elev., on soil, 1993 Nov. 14, coll. H.Takamiya no. 93137 (CBM-BB-18102). <6392> 鴨川市, on rotten stump, 1987 Nov. 15, coll. T.Nakamura no. 4805 (CBM-BB-3755). <6393> 大多喜町, 250 m elev., on soil, 1988 June 19, coll. H.Takamiya no. 88077 (CBM-BB-4384). <6856> 鴨川市, 30 m elev., 1944 June 20, coll. S.Asano s.n. (CBM-BB-115). <6902> 鴨川市, 150 m elev., on rock, 1976 Aug. 10, coll. H.Takamiya no. 76012 (CBM-BB-4117); 340 m elev., on decaying log, 1964 Feb. 23, coll. S.Asano no. 53 (CBM-BB-273). <6911> 君津市, 275 m elev., on soil, 2015 Mar. 19, coll. T.Furuki no. 23845 (CBM-BB-37817). <6912> 鴨川市, 275 m elev., on soil, 1991 Dec. 4, coll. T.Furuki no. 9849 (CBM-BB-17910); 320 m elev., on soil, 1991 Dec. 6, coll. T.Furuki no. 2485 (CBM-BB-9993). <6913> 鴨川市, 230 m elev., on soil, 1996 Dec. 10, coll. H.Takamiya no. 96093 (CBM-BB-22922). <6946> 鴨川市, 110 m elev., on soil, 1996 Dec. 14, coll. H.Takamiya no. 96170 (CBM-BB-22999).

Lophocoleaceae ウロコゴケ科

Chiloscyphus palescens (Ehrh. ex Hoffm.) Dumort. スケバウロコゴケ

<6290> 君津市, 300 m elev., on soil, 1992 Apr. 12, coll. T.Furuki no. 10246 (CBM-BB-29034). <6355> 大多喜町, 210 m elev., on rotten log, 1994 Nov. 3, coll. H.Takamiya no. 94098 (CBM-BB-18702). <6901> 鴨川市, 200 m elev., on soil, 1990 Apr. 1, coll. T.Furuki no. 8553 (CBM-BB-17841).

Chiloscyphus polyanthos (L.) Corda フジウロコゴケ

<2295> 旭市, 50 m elev., on rock, 1976 Nov. 6, coll. H.Takamiya no. 76051 (CBM-BB-4156). <6242> 君津市, 150 m elev., on rocks in water, 2004 Jan. 26, coll. M.Miyata s.n. (CBM-BB-28464). <6271> 君津市, 160 m elev., on cliff, 1974 Aug. 8, coll. T.Nakamura no. 132 (CBM-BB-631). <6759> 鴨川市, 1937 Aug. 20, coll. M.Tuzize no. 1060 (CBM-BB-40800). <6901> 鴨川市, 200 m elev., on rock cliff, 1990 Apr. 1, coll. T.Furuki no. 8575 (CBM-BB-17863).

Cryptolophocoea compactum (L.) Dumort. (= Lophocoea compacta Mitt. = Chiloscyphus yezoensis T.Katag. & Furuki) エゾトサカゴケ

<6169> 君津市, 140 m elev., 1994 Nov. 18, coll. T.Furuki no. 11775 (CBM-BB-21317). <6297> 君津市, 300 m elev., on rotten log, 2016 Mar. 28, coll. T.Furuki no. 24208 (CBM-BB-38665). <6901> 鴨川市, 200 m elev., on decaying log, 1990 Apr. 1, coll. T.Furuki no. 8573 (CBM-BB-17861).

Heteroscyphus argutus (Reinw., Bleme & Nees) Schiffn. ウロコゴケ

<1954> 成田市, 30 m elev., on rocks, 1950 Mar. 2, coll. T.Namegata no. 20 (CBM-BB-17020). <2614> 佐倉市, 25 m elev., on rocks, 1997 Nov. 28, coll. T.Furuki no. 14586 (CBM-BB-24857). <2791> 佐倉市, 40 m elev., on soil, 1999 Sept. 9, coll. T.Furuki no. 16005 (CBM-BB-24917). <3008> 銚子市, 30 m elev., on base of trunk, 1989 Sept. 29, coll. T.Furuki no. 9368 (CBM-BB-13558); on decaying log, 1989 Sept. 29, coll. T.Furuki no. 9374 (CBM-BB-13564). <4028> 東金市, 30 m elev., on cliff, 2002 Jan. 25, coll. T.Furuki no. 17165 (CBM-BB-25562). <5489> 富津市, 20 m elev., on loam, 1997 Mar. 18, coll. T.Kawana no. 97031803 (CBM-BB-24081). <5550> 富津市, 20 m elev., on stone wall, 1997 Mar. 8, coll. T.Kawana no. 97030801B (CBM-BB-24017). <5790> 市原市, 200 m elev., on soil, 1992 Nov. 13, coll. T.Furuki no. 11230 (CBM-BB-11586). <5790> 市原市, 250 m elev., on soil, 1991 June 5, coll. T.Furuki no. 9802 (CBM-BB-11519). <6251> 君津市, 120 m elev., on decaying log, 2002 Dec. 1, coll. T.Kawana no. 02120215b (CBM-BB-27606). <6257> 君津市, 281 m elev., 1971 Nov. 28, coll. F.Ohshima no. 1042 (CBM-BB-24792). <6279> 君津市, 230 m elev., on rotten log of Cryptomeria, 2015 Mar. 11, coll. T.Furuki no. 23781 (CBM-BB-37571). <6280> 君津市, 170 m elev., on soil, 1990 May 31, coll. T.Nakamura no. 5108 (CBM-BB-4096). <6689> 南房総市, 50 m elev., on stone wall, 1992 Nov. 18, coll. H.Suga no. 2894 (CBM-BB-13484). <6780> 南房総市, 330 m elev., on soil, 1992 Nov. 18, coll. H.Suga no. 2951 (CBM-BB-13540). <6902> 鴨川市, 150 m elev., on wet soil, 1976 Aug. 10, coll. H.Takamiya no. 76013 (CBM-BB-4118).

Heteroscyphus coalitus (Hook.) Schiffn. (= H. bercherellei (Steph.) S.Hatt.) オオウロコゴケ

<2912> 匝瑳市, 25 m elev., on soil, 1974 June 1, coll. T.Nakamura no. 79 (CBM-BB-583). <3145> 銚子市, 20 m elev., on soil, 2007 May 8, coll. T.Furuki no. 21669 (CBM-BB-35755). <3567> 東金市, 40 m elev., on soil, 2002 Jan. 25, coll. T.Furuki no. 17144 (CBM-BB-25541). <3672> 山武市, 20 m elev., on sand, 1974 Sept. 23, coll. T.Nakamura no. 305 (CBM-BB-807). <4017> 東金市, 30 m elev., on soil, 1990 Aug. 23, coll. H.Takamiya no. 90132 (CBM-BB-4861). <4025> 東金市, 35 m elev., on soil, 1989 Aug. 30, coll. H.Takamiya no. 89142 (CBM-BB-4707). <4028> 東金市, 25 m elev., on soil, 1989 May 28, coll. H.Takamiya no. 89016 (CBM-BB-4750). <4034> 東金市, 40 m elev., on rocks, 1990 Dec. 14, coll. H.Takamiya no. 90199 (CBM-BB-4913). <4036> 東金市, 20 m elev., on soil, 1989 Sept. 17, coll. H.Takamiya no. 89196 (CBM-BB-4730). <4038> 東金市, 30 m elev., on soil, 1990 July 6, coll. H.Takamiya no. 90022 (CBM-BB-4779). <4045> 大網白里市, 70 m elev., on clay, 1990 Nov. 10, coll. H.Takamiya no. 90224 (CBM-BB-4936). <5167> 睦沢町, 45 m elev., on soil, 1992 Nov. 7, coll. H.Takamiya no. 92173 (CBM-BB-13412). <5173> 睦沢町, 55 m elev., on soil, 1990 Nov. 17, coll. H.Takamiya no. 90395 (CBM-BB-9763). <5174> 睦沢町, 40 m elev., on soil, 1990 Nov. 17, coll. H.Takamiya no. 90365 (CBM-BB-9741). <5183> 睦沢町, 70 m elev., on clay, 1990 Nov. 17, coll. H.Takamiya no. 90410 (CBM-BB-9773). <5185> 睦沢町, 40 m elev., on soil, 1992 Sept. 27, coll. H.Takamiya no. 92090 (CBM-BB-13329). <5197>, いすみ市, 80 m elev., on soil, 1992 Nov. 1, coll. H.Takamiya no. 92143 (CBM-BB-13382). <5571> 富津市, 20 m elev., on stone wall, 1997 Mar. 8, coll. T.Kawana no. 97030814 (CBM-BB-24033). <5589> 君津市, 50 m elev., on rock cliff, 2003 Nov. 7, coll. T.Kawana no. 03110725 (CBM-BB-27776). <5758> 大多喜町, 90 m elev., on soil, 1994 Nov. 27, coll. H.Takamiya no. 94130 (CBM-BB-18734). <5776> 大多喜町, 160 m elev., on soil, 1994 Dec. 16, coll. H.Takamiya no. 94160 (CBM-BB-18764). <5790> 市原市, 280 m elev., on soil, 1991 June 5, coll. H.Suga no. 2330 (CBM-BB-9944). <5792> 市原市, 85 m elev., on rock cliff, 2011 June 12, coll. T.Furuki no. 22639 (CBM-BB-36420). <5802> 睦沢町, 80 m elev., on rock, 1987 June 28, coll. H.Takamiya no. 87086 (CBM-BB-4467). <5810> 睦沢町, 125 m elev., on soil, 1992 Aug. 10, coll. H.Takamiya no. 92106 (CBM-BB-13345). <5812> 睦沢町, 70 m elev., on clay, 1991 Dec. 16, coll. H.Takamiya no. 91102 (CBM-BB-9866). <5858>, いすみ市, 60 m elev., on boulder,

1987 July 5, coll. H.Takamiya no. 87087 (CBM-BB-4483). <6066> 富津市, 8 m elev., on sand rock, 1997 Mar. 20, coll. T.Kawana no. 97032017B (CBM-BB-24104). <6085> 富津市, 8 m elev., on sandy soil, 1997 Mar. 20, coll. T.Kawana no. 97032019 (CBM-BB-24106). <6139> 君津市, 100 m elev., on rock cliff, 2003 Dec. 26, coll. T.Kawana no. 04012632 (CBM-BB-28039). <6147> 富津市, 80 m elev., on stone wall, 1997 Mar. 9, coll. T.Kawana no. 97030926 (CBM-BB-24048). <6149> 君津市, 80 m elev., on boulder, 2002 Dec. 6, coll. T.Kawana no. 02120622 (CBM-BB-27625); on rock, 2002 Dec. 6, coll. T.Kawana no. 02120639 (CBM-BB-27642). <6159> 君津市, 80 m elev., on boulder, 2002 Nov. 2, coll. T.Kawana no. 021102018 (CBM-BB-27480); 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17807 (CBM-BB-28077); on trunk of Cryptomeria, 2003 Nov. 15, coll. T.Kawana no. 03111523 (CBM-BB-27812); on boulder, 2003 Dec. 3, coll. T.Kawana no. 03120337 (CBM-BB-27935). <6194> 富津市, 40 m elev., on decaying log, 1995 Dec. 8, coll. T.Kawana no. 95120805 (CBM-BB-23528); 60 m elev., on stone wall, 1995 Feb. 28, coll. T.Kawana no. 95022805 (CBM-BB-18993). <6231> 君津市, 80 m elev., on sand, 2003 Feb. 4, coll. T.Kawana no. 03020408 (CBM-BB-27701). <6250> 君津市, 100 m elev., on rock cliff, 2003 Nov. 24, coll. T.Kawana no. 03112433 (CBM-BB-27898); 120 m elev., on rock cliff, 2003 June 3, coll. T.Kawana no. 03060338 (CBM-BB-27751); 200-300 m elev., on rock cliff, 1993 Dec. 22, coll. T.Furuki no. 11655 (CBM-BB-16900). <6251> 君津市, 30 m elev., on rock, 1976 July 30, coll. T.Nakamura no. 1117c (CBM-BB-1463); 1976 July 30, coll. T.Nakamura no. 1122a (CBM-BB-1477); 100 m elev., on rock, 2002 Dec. 1, coll. T.Kawana no. 02120122 (CBM-BB-27613). <6257> 君津市, 250 m elev., on rock, 1986 Aug. 25, coll. H.Takamiya no. 86073 (CBM-BB-4308); 281 m elev., 1971 Nov. 28, coll. F.Ohshima no. 1045 (CBM-BB-24793). <6279> 君津市, 200 m elev., on stone wall, 1995 Mar. 2, coll. T.Nakamura no. 95019 (CBM-BB-20852). <6300> 市原市, 115 m elev., on soil, 2005 June 14, coll. T.Furuki no. 19865 (CBM-BB-30257). <6301> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8077 (CBM-BB-17438); 市原市, 120 m elev., on rock cliff, 1992 Sept. 8, coll. T.Furuki no. 11163 (CBM-BB-11553); 1992 Dec. 18, coll. T.Furuki no. 11305 (CBM-BB-11661). <6305> 鴨川市, ca.75 m elev., on rock, 1977 Apr.5, coll. T.Nakamura no. 1336 (CBM-BB-1561). <6316> 大多喜町, on boulder, 1974 Dec. 18, coll. S.Asano no. 43 (CBM-BB-348); on soil, 1974 Nov. 6, coll. S.Asano no. 9 (CBM-BB-358). <6328> 大多喜町, 140 m elev., on soil, 1993 Nov. 23, coll. H.Takamiya no. 93170 (CBM-BB-18135). <6329> 大多喜町, 100 m elev., on clay, 1993 Nov. 23, coll. H.Takamiya no. 93152 (CBM-BB-18117). <6332> 大多喜町, 160 m elev., on mad stone ledge by stream, 1993 Mar. 14, coll. H.Takamiya no. 93011 (CBM-BB-17977). <6357> 大多喜町, 210 m elev., on rotten log, 1994 Dec. 16, coll. H.Takamiya no. 94070 (CBM-BB-18674). <6377> 大多喜町, 210 m elev., on mad-stone ledge, 1994 Mar. 15, coll. H.Takamiya no. 94048 (CBM-BB-18652). <6391> 鴨川市, 180 m elev., on stone wall, 1996 Mar. 30, coll. H.Takamiya no. 96071 (CBM-BB-22900). <6394> 大多喜町, 310 m elev., on soil, 1993 Nov. 7, coll. H.Takamiya no. 93105 (CBM-BB-18070). <6710> 富津市, 150 m elev., on rock, 1989 Apr. 20, coll. T.Furuki no. 8181 (CBM-BB-17542). <6816> 鴨川市, 80 m elev., on boulder, 1974 Aug. 22, coll. S.Asano no. 13 (CBM-BB-320). <6869> 鴨川市, 200 m elev., on soil, 1987 Mar. 13, coll. T.Nakamura no. 4735 (CBM-BB-3685). <6912> 鴨川市, 150 m elev., on rock, 1987 Aug. 3, coll. H.Takamiya no. 87088 (CBM-BB-4540); 340 m elev., on boulder, 1944 July 16, coll. S.Asano no. 9 (CBM-BB-117); 1944 July 16, coll. S.Asano no. 11 (CBM-BB-119). <6922> 鴨川市, 150 m elev., on soil, 1995 Mar. 28, coll. H.Takamiya no. 95099 (CBM-BB-21082). <6924> 鴨川市, 90 m elev., on soil, 1995 Mar. 15, coll. H.Takamiya no. 95046 (CBM-BB-21029). <6935> 鴨川市, 120 m elev., on soil, 1995 Dec. 14, coll. H.Takamiya no. 95164 (CBM-BB-21147). <6942> 鴨川市, 70 m elev., on soil, 1996 Dec. 10, coll. H.Takamiya no. 96138 (CBM-BB-22967). <6956> 鴨川市, 70 m elev., on soil, 1996 Dec. 14, coll. H.Takamiya no. 96152 (CBM-BB-22981). <7700> 南房総市, 5 m elev., on rock

cliff, 2003 Mar. 6, coll. T.Furuki no. 18496 (CBM-BB-28196); 25 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18515 (CBM-BB-28215).

Heteroscyphus planus (Mitt.) Schifff. ツクシウロコゴケ

<1693> 市川市, 15 m elev., on soil, 2011 June 30, coll. H.Kaneko & K.Kaneko no. 100326 (CBM-BB-35187). <1972> 成田市, 50 m elev., on trunk, 1988 Aug. 10, coll. H.Takamiya no. 88087 (CBM-BB-4418). <2285> 旭市, 50 m elev., on soil, 1985 Dec. 17, coll. H.Takamiya no. 85104 (CBM-BB-4279). <2402> 市川市, 20 m elev., on stone wall, 2010 Dec. 9, coll. H.Kaneko & K.Kaneko no. 100058 (CBM-BB-34922). <2437> 船橋市, 20 m elev., on soil, 2009 Apr.6, coll. H.Kaneko & K.Kaneko no. 090327 (CBM-BB-33696). <2446> 船橋市, 20 m elev., on soil, 2009 Apr.6, coll. H.Kaneko & K.Kaneko no. 090312 (CBM-BB-33681). <2645> 佐倉市, 10 m elev., on soil, 1999 Sept. 10, coll. T.Furuki no. 16237 (CBM-BB-24931). <3005> 旭市, 30 m elev., on rock, 1975 Dec. 31, coll. T.Nakamura no. 663 (CBM-BB-1224); on soil, no. 706 (CBM-BB-1267); on sand, no.716 (CBM-BB-1278). <3423> 四街道市, 30 m elev., on soil, 1975 Dec. 14, coll. T.Nakamura no. 4014 (CBM-BB-1197). <3566> 東金市, 40 m elev., on rock, 2002 Jan. 25, coll. T.Furuki no. 17114 (CBM-BB-25512). <4017> 東金市, 35 m elev., on base of trunk of Cryptomeria, 1990 Aug. 23, coll. H.Takamiya no. 90133 (CBM-BB-4862). <4034> 東金市, 50 m elev., on base of trunk of Cryptomeria, 1990 Dec. 14, coll. H.Takamiya no. 90187 (CBM-BB-4901). <4038> 東金市, 40 m elev., on base of trunk of Cryptomeria, 1990 July 7, coll. H.Takamiya no. 90037 (CBM-BB-4785). <4269> 袖ヶ浦市, 30 m elev., on tuff rock, 1996 Dec. 12, coll. T.Kawana no. 96101222 (CBM-BB-22625). <4296> 袖ヶ浦市, 10 m elev., on decaying log, 1996 Dec. 2, coll. T.Kawana no. 96100202 (CBM-BB-22768). <4334> 市原市, 4 m elev., on trunk of Castanopsis sieboldii, 1975 Mar. 4, coll. T.Nakamura no. 416 (CBM-BB-908). <4940> 袖ヶ浦市, 50 m elev., on soil, 1996 Aug. 8, coll. T.Furuki no. 13143 (CBM-BB-23224). <5135> 睦沢町, 25 m elev., on soil, 1992 Nov. 1, coll. H.Takamiya no. 92153 (CBM-BB-13392). <5174> 睦沢町, 35 m elev., on soil, 1990 Nov. 17, coll. H.Takamiya no. 90359 (CBM-BB-9735). <5176> 睦沢町, 60 m elev., on soil, 1991 Aug. 26, coll. H.Takamiya no. 91032 (CBM-BB-9815). <5182> 睦沢町, 70 m elev., on base of trunk, 1992 Aug. 30, coll. H.Takamiya no. 92043 (CBM-BB-13282). <5189>, 一宮町, 30 m elev., on trunk, 1987 June 7, coll. H.Takamiya no. 87090 (CBM-BB-4326). <5194> 睦沢町, 60 m elev., on clay, 1991 July 8, coll. H.Takamiya no. 91002 (CBM-BB-9792). <5196> 睦沢町, 65 m elev., on base of trunk, 1992 Sept. 27, coll. H.Takamiya no. 92064 (CBM-BB-13303). <5778> 大多喜町, 80 m elev., on soil, 1994 Dec. 16, coll. H.Takamiya no. 94156 (CBM-BB-18760). <5797> 大多喜町, 80 m elev., on trunk, 1988 July 10, coll. H.Takamiya no. 88086 (CBM-BB-4407). <5803> 睦沢町, 60 m elev., on clay, 1991 Dec. 20, coll. H.Takamiya no. 91129 (CBM-BB-9888). <5858>, いすみ市, 60 m elev., on rock, 1987 July 5, coll. H.Takamiya no. 87091 (CBM-BB-4484). <6127> 富津市, 50 m elev., on sand, 1997 Mar. 9, coll. T.Kawana no. 97030930 (CBM-BB-24052). <6129> 君津市, 80 m elev., on soil, 2003 Dec. 25, coll. T.Kawana no. 04012523 (CBM-BB-28012). <6194> 富津市, 100 m elev., on soil, 1993 Nov. 22, coll. T.Kawana no. 93383 (CBM-BB-18562). <6241> 君津市, 80 m elev., on sand, 2003 Feb. 8, coll. T.Kawana no. 03020823 (CBM-BB-27732). <6257> 君津市, 250 m elev., on soil, 1986 Aug. 25, coll. H.Takamiya no. 86069 (CBM-BB-4307). <6260> 君津市, 200-300 m elev., on soil, 1993 Dec. 22, coll. T.Furuki no. 11704 (CBM-BB-16949). <6279> 君津市, 240 m elev., on rotten log of Cryptomeria, 2015 Mar. 11, coll. T.Furuki no. 23730 (CBM-BB-37520). <6290> 君津市, 200-300 m elev., on base of trunk of tree, 1993 Dec. 21, coll. T.Furuki no. 11637 (CBM-BB-16882). <6323> 大多喜町, 160 m elev., on cliff, 1993 Mar. 14, coll. H.Takamiya no. 93034 (CBM-BB-18000). <6353> 大多喜町, 200 m elev., on soil, 1993 Dec. 24, coll. H.Takamiya no. 93054 (CBM-BB-18020). <6390> 鴨川市, 160 m elev., on clay, 1995 Mar. 20, coll. H.Takamiya no. 95078 (CBM-BB-21061). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no.

8215 (CBM-BB-17573), T.Furuki no. 8228 (CBM-BB-17586); on rock cliff, 1989 June 15, coll. T.Furuki no. 8219 (CBM-BB-17577). <6790> 南房総市, 170 m elev., on rock, 2003 Mar. 5, coll. T.Furuki no. 18470 (CBM-BB-28168). <6869> 鴨川市, 200 m elev., on soil, 1987 Mar. 13, coll. T.Nakamura no. 4749 (CBM-BB-3699). <6872> 鴨川市, 250 m elev., on decaying log, 1986 Aug. 11, coll. H.Takamiya no. 86070 (CBM-BB-4295). <6901> 鴨川市, 280 m elev., on soil, 1995 Mar. 28, coll. H.Takamiya no. 96020 (CBM-BB-22849); 300 m elev., 2001 Nov. 16, coll. T.Furuki no. 17033 (CBM-BB-25621). <6902> 鴨川市, 340 m elev., on trunk, 1964 Feb. 23, coll. S.Asano no. 40 (CBM-BB-264); 340 m elev., on decaying log, 1964 Feb. 23, coll. S.Asano no. 41 (CBM-BB-265); on trunk of Quercus, 1964 Feb. 23, coll. S.Asano no. 52 (CBM-BB-272). <6904> 鴨川市, 140 m elev., on soil, 1995 Mar. 15, coll. H.Takamiya no. 95015 (CBM-BB-20998). <6913> 鴨川市, 200 m elev., on ledge, 1996 Dec. 10, coll. H.Takamiya no. 96094 (CBM-BB-22923). <6932> 鴨川市, 250 m elev., on rock, 1985 July 14, coll. H.Takamiya no. 85016 (CBM-BB-4191). <6946> 鴨川市, 60 m elev., on stone wall, 1996 Dec. 14, coll. H.Takamiya no. 96169 (CBM-BB-22998). <7155> 南房総市, 65 m elev., on tuff cliff, 2001 May 17, coll. T.Furuki no. 16593 (CBM-BB-25392); 300 m elev., on stone step, 1992 July 26, coll. T.Kawana no. 92308 (CBM-BB-18486); 1992 July 26, coll. T.Kawana no. 92309 (CBM-BB-18487).

***Lophocolea heterophylla* (Schr.) Dumort. トサカゴケ**

<1965> 成田市, 35 m elev., on rock, 1950 Mar. 3, coll. T.Namegata no. 18 (CBM-BB-17028). <3481> 千葉市, 20 m elev., on boulder, 1989 Sept. 5, coll. T.Furuki no. 8400 (CBM-BB-8200). <3588> 東金市, 45 m elev., on decaying log, 1990 July 31, coll. H.Takamiya no. 90105 (CBM-BB-4841). <3646> 山武市, 30 m elev., on decaying log, 1987 July 21, coll. H.Takamiya no. 87094 (CBM-BB-4527). <4961> 袖ヶ浦市, 40 m elev., on decaying log, 1996 Aug. 31, coll. T.Kawana no. 96083139 (CBM-BB-22579). <5082> 市原市, 120 m elev., on fallen log, 1992 Dec. 18, coll. T.Furuki no. 11323 (CBM-BB-11679). <5790> 市原市, 250 m elev., on soil, 1991 June 5, coll. T.Furuki no. 9814 (CBM-BB-11531). <5792> 市原市, 100 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8020 (CBM-BB-17381); 1989 Apr. 13, coll. T.Furuki no. 8024 (CBM-BB-17385); on stump, 1989 Apr. 13, coll. T.Furuki no. 8025 (CBM-BB-17386). <5810> 睦沢町, 125 m elev., on soil, 1992 Aug. 10, coll. H.Takamiya no. 92107 (CBM-BB-13346). <6176> 富津市, 68 m elev., on soil, 2001 Dec. 23, coll. T.Furuki no. 17002 (CBM-BB-25590). <6250> 君津市, 100 m elev., on trunk of Cryptomeria, 2003 Nov. 18, coll. T.Kawana no. 03111812 (CBM-BB-27847). <6301> 市原市, 120 m elev., on decaying log, 1992 Dec. 18, coll. T.Furuki no. 11343 (CBM-BB-11699). <6326> 大多喜町, 180 m elev., on decaying log, 1994 Mar. 12, coll. H.Takamiya no. 94025 (CBM-BB-18629). <6616> 鋸南町, 250 m elev., on stonewall, 1988 June 22, coll. T.Nakamura no. 4959 (CBM-BB-3766). <6869> 鴨川市, 200 m elev., on sand rock, 1987 Mar. 13, coll. T.Nakamura no. 4729 (CBM-BB-3679). <6901> 鴨川市, 270 m elev., on base of trunk of Cryptomeria japonica, 1995 Mar. 28, coll. H.Takamiya no. 96026 (CBM-BB-22855); 300 m elev., on decaying log, 1996 Feb. 4, coll. T.Furuki no. 12824A (CBM-BB-21768).

***Lophocolea horikawana* S.Hatt. (= *Chiloscyphus horikawanus* (S.Hatt.) J.J.Engel & R.M.Schust.) ホリカワトサカゴケ**

<6279> 君津市, 230 m elev., on boulder, 2015 Mar. 11, coll. T.Furuki no. 23760 (CBM-BB-37550).

***Lophocolea minor* Nees (= *Chiloscyphus minor* (Nees) J.J.Engel & R.M.Schust.) ヒメトサカゴケ**

<0193> 野田市, 13 m elev., on rock, 2015 June 15, coll. Y. Utsumi no. 150615-32 (CBM-BB-38372); 2015 June 15, coll. Y. Utsumi no. 150615-35 (CBM-BB-38375). <0458> 野田市, 8 m elev., on trunk, 2015 Mar. 20, coll. Y. Utsumi no. 150320-2-2 (CBM-BB-38282). <0562> 野田市, 16 m elev., on decaying log,

2015 Feb. 25, coll. Y. Utsumi no. 150225-31 (CBM-BB-38263). <0573> 野田市, 15 m elev., on rotten log, 2014 Dec. 24, coll. Y. Utsumi no. 141224-17 (CBM-BB-37716); 16 m elev., on fallen log, 2016 Mar. 16, coll. Y. Utsumi no. 160316-12 (CBM-BB-39269). <0584> 野田市, 16.7 m elev., on dead standing trunks, 2015 Dec. 9, coll. Y. Utsumi no. 151209-11 (CBM-BB-39231); 6 m elev., on trunk, 2015 Mar. 11, coll. Y. Utsumi no. 150311-10-2 (CBM-BB-38276). <0594> 野田市, 15 m elev., on stone lantern, 2014 Dec. 31, coll. Y. Utsumi no. 141031-33 (CBM-BB-37624). <0903> 野田市, 12 m elev., on soil, 2015 May 1, coll. Y. Utsumi no. 150501-5 (CBM-BB-38311); on trunk, 2015 May 1, coll. Y. Utsumi no. 150501-31 (CBM-BB-38337). <1687> 市川市, 10 m elev., on soil, 2012 June 21, coll. T. Furuki, H.Kaneko & K.Kaneko no. 100769 (CBM-BB-35620). <1687>, 15 m elev., on rock, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 22971 (CBM-BB-35796). <1687>, on base of trunks of cryptomeria, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100700 (CBM-BB-35552); on rock, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100701 (CBM-BB-35553); on base of trunks, 2012 June 21, coll. T. Furuki, H.Kaneko & K.Kaneko no. 100768 (CBM-BB-35619); on soil, 2012 Nov. 8, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100827 (CBM-BB-35677). <1687> 市川市, 15 m elev., on rock, 2012 Dec. 5, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100887 (CBM-BB-35737). <1692> 市川市, on base of trunk of Carpinus, 1977 May 2, coll. T.Nakamura no. 1414 (CBM-BB-1649). <1716> 南房総市, 20 m elev., on trunk of Kalopanax, 2005 Dec. 14, coll. T.Furuki no. 21046 (CBM-BB-30422). <1747> 南房総市, 25 m elev., on fallen log, 2005 Dec. 10, coll. T.Furuki no. 20984 (CBM-BB-30360). <1758> 白井市, 20 m elev., on trunk of Quercus, 2007 Feb. 5, coll. T. Furuki no. 21543 (CBM-BB-31608). <1766> 船橋市, 20 m elev., on soil, 2009 Nov. 26, coll. H.Kaneko, K.Kaneko & T. Furuki no. 090505 (CBM-BB-33874). <1774> 船橋市, 10 m elev., on trunk, 2010 Jan. 6, coll. H.Kaneko & K.Kaneko no. 090605 (CBM-BB-33974). <1776> 船橋市, 10 m elev., on trunk, 1989 June 30, coll. T.Furuki no. 8316 (CBM-BB-17672); 20 m elev., on rock, 2010 Mar. 22, coll. H.Kaneko & K.Kaneko no. 090719 (CBM-BB-34081). <2412> 市川市, 20 m elev., on grave stone, 2012 Mar. 28, coll. H.Kaneko & K.Kaneko no. 100555 (CBM-BB-35410). <2413> 市川市, 15 m elev., on soil, 2011 Dec. 22, coll. H.Kaneko & K.Kaneko no. 100369 (CBM-BB-35227); 20 m elev., on soil, 2012 Jan. 6, coll. H.Kaneko & K.Kaneko no. 100414 (CBM-BB-35271). <2504> 船橋市, 30 m elev., on trunk, 2010 Apr. 24, coll. H.Kaneko, K.Kaneko & T. Furuki no. 090763 (CBM-BB-34125). <2573> 習志野市, 25 m elev., on trunk of Cinnamomum, 2008 Dec. 13, coll. H.Kaneko, K.Kaneko & T.Furuki no. 080731 (CBM-BB-31575). <2614> 佐倉市, 25 m elev., on stone lantern, 1997 Mar. 6, coll. T.Furuki no. 13360 (CBM-BB-23442). <2637> 佐倉市, 30 m elev., on trunk of Casanopsis, 1996 Dec. 16, coll. T.Furuki no. 13305 (CBM-BB-23387). <2638> 佐倉市, 50 m elev., on trunks, 1997 Sept. 10, coll. T.Furuki no. 13901 (CBM-BB-24848). <2912> 匝瑳市, 25 m elev., on decaying log, 1974 June 1, coll. T. Nakamura no. 86 (CBM-BB-588). <3005> 旭市, 30 m elev., on trunk of Cryptomeria, 1975 Dec. 31, coll. T.Nakamura no. 680 (CBM-BB-1241). <3008> 銚子市, 30 m elev., on decaying log, 1989 Sept. 29, coll. T.Furuki no. 9364 (CBM-BB-13554). <3329> 千葉市, 10 m elev., on rotten log, 1993 Jan. 20, coll. H.Suga no. 2967 (CBM-BB-11728). <3329> 千葉市, 8 m elev., on soil, 1993 Jan. 20, coll. H.Suga no. 2978 (CBM-BB-11733). <3423> 四街道市, 30 m elev., on soil, 1975 Dec. 14, coll. T.Nakamura no. 4021 (CBM-BB-1204). <3441> 千葉市, 10 m elev., on soil, 1993 Jan. 22, coll. H.Suga no. 3009 (CBM-BB-11744); on trunk of Castanopsis sieboldii, 1993 Jan. 22, coll. T.Nakamura s.n. (CBM-BB-11746); on base of trunk of Quercus serrata (30cm), 1993 Jan. 22, coll. T.Nakamura s.n. (CBM-BB-11747); on base of trunk of Zelkova serrata, 1993 Jan. 22, coll. T.Nakamura s.n. (CBM-BB-11749); on base of trunk of Quercus serrata (30cm), 1993 Jan. 22, coll. T.Nakamura s.n. (CBM-BB-11750). <3467> 千葉市, 30 m elev., on sandy soil, 1994 Dec. 7, coll. H.Suga no. 3975 (CBM-BB-19162); 34 m

elev., on fallen log, 1994 Dec. 7, coll. H.Suga no. 3983 (CBM-BB-19170); 1994 Dec. 7, coll. H.Suga no. 3985 (CBM-BB-19172); on root of *Quercus myrsinaefolia*, 1994 Dec. 7, coll. H.Suga no. 3988 (CBM-BB-19175). <3468> 千葉市, 30 m elev., on soil, 1985 Aug. 6, coll. H.Takamiya no. 85028 (CBM-BB-4203). <3475> 千葉市, 11 m elev., on fallen log, 1993 Dec. 9, coll. H.Suga no. 3444 (CBM-BB-16557); on sandy soil, 1993 Dec. 9, coll. H.Suga no. 3448 (CBM-BB-16561); on base of trunk *Quercus myrsinaefolia*, 1993 Dec. 9, coll. H.Suga no. 3455 (CBM-BB-16567); 15 m elev., on base of trunk of *Quercus myrsinaefolia*, 1995 July 25, coll. H.Suga no. 4051 (CBM-BB-20814); on trunk of *Robinia pseudoacacia*, 1995 July 25, coll. H.Suga no. 4058 (CBM-BB-20821); on trunk of *Castanopsis sieboldii*, 1995 July 25, coll. H.Suga no. 4064 (CBM-BB-20827). <3481> 千葉市, 20 m elev., on base of trunk of *Quercus acutissima*, 1989 Sept. 5, coll. T.Furuki no. 8373 (CBM-BB-8173); on soil, coll. T.Furuki no. 8384 (CBM-BB-8184), 8386 (CBM-BB-8186); on boulder, 1989 Sept. 5, coll. T.Furuki no. 8403 (CBM-BB-8203). <3566> 東金市, 40 m elev., on trunk of *Prunus mume*, 2002 Jan. 25, coll. T.Furuki no. 17102 (CBM-BB-25500). <3598> 東金市, 35 m elev., on rotten log, 1990 Nov. 5, coll. H.Takamiya no. 90208 (CBM-BB-4920). <3645> 山武市, 50 m elev., on soil, 1985 Dec. 18, coll. H.Takamiya no. 85076 (CBM-BB-4251). <3908> 千葉市, 30 m elev., on trunk of *Quercus serrata*, 1993 Dec. 17, coll. H.Suga no. 3563 (CBM-BB-16696); 40 m elev., on trunk of *Prunus jamazakura*, 1993 Dec. 17, coll. T.Nakamura no. 93052 (CBM-BB-16774). <3923> 千葉市, on base of trunk of *Quercus serrata* (30cm), 1993 Feb. 19, coll. T.Nakamura s.n. (CBM-BB-11772); 20 m elev., on trunk of *Quercus serrata*, 1993 Feb. 19, coll. T.Nakamura s.n. (CBM-BB-11770); 22 m elev., on soil, 1993 Feb. 6, coll. H.Suga no. 3087 (CBM-BB-11766). <3924> 千葉市, 18 m elev., on trunk of *Quercus serrata*, 1993 Jan. 28, coll. H.Suga no. 3038 (CBM-BB-11756); on base of trunk of *Cryptomeria*, 1993 Feb. 6, coll. H.Suga no. 3073 (CBM-BB-11762); on decaying log, 1993 Feb. 6, coll. H.Suga no. 3075 (CBM-BB-11763). <3925> 千葉市, 20 m elev., on trunk base, 1979 Apr. 3, coll. T.Nakamura no. 3651 (CBM-BB-2568). <4005> 東金市, 60 m elev., on trunk of *Cryptomeria*, 1990 July 23, coll. H.Takamiya no. 90081 (CBM-BB-4820). <4029> 東金市, 30 m elev., on trunk of *Cinnamomum camphora*, 1990 July 11, coll. H.Takamiya no. 90041 (CBM-BB-4789). <4054> 大網白里市, 50 m elev., on trunk, 1988 Aug. 23, coll. H.Takamiya no. 88088 (CBM-BB-4434). <4081> 東金市, 4 m elev., on decaying log, 1989 July 23, coll. H.Takamiya no. 89068 (CBM-BB-4651). <4082> 千葉市, 70 m elev., on decaying log, 1995 Aug. 26, coll. H.Suga no. 4151 (CBM-BB-20902); 90 m elev., on base of trunk of *Prunus*, 1995 Sept. 22, coll. H.Suga no. 4193 (CBM-BB-20927); on trunk of *Prunus*, 1995 Sept. 22, coll. H.Suga no. 4194 (CBM-BB-20928). <4102> 東金市, 7 m elev., on rotten log, 1989 Sept. 28, coll. H.Takamiya no. 90172 (CBM-BB-4890). <4134> 東金市, 5 m elev., on soil, 1989 Aug. 20, coll. H.Takamiya no. 89125 (CBM-BB-4659). <4141> 東金市, 5 m elev., on decaying log, 1989 Aug. 20, coll. H.Takamiya no. 89116 (CBM-BB-4759). <4171> 東金市, 5 m elev., on base of trunk of *Pinus*, 1989 Sept. 24, coll. H.Takamiya no. 90147 (CBM-BB-4875). <4180> 東金市, 4 m elev., on stump, 1989 July 23, coll. H.Takamiya no. 89063 (CBM-BB-4674). <4182> 東金市, 5 m elev., on rotten log, 1989 Sept. 28, coll. H.Takamiya no. 90159 (CBM-BB-4881). <4296> 袖ヶ浦市, 10 m elev., on branch, 1995 Sept. 10, coll. T.Kawana no. 95091002 (CBM-BB-22446). <4338> 市原市, 15 m elev., on trunk of *Quercus serrata*, 1978 Jan. 04, coll. T.Nakamura no. 1924 (CBM-BB-2112). <4930> 袖ヶ浦市, 11 m elev., on decayed *Cryptomeria japonica*, 1996 Aug. 9, coll. T.Kawana no. 96080902 (CBM-BB-22524). <4952> 袖ヶ浦市, 40 m elev., on stone wall, 1996 Sept. 21, coll. T.Kawana no. 96092109 (CBM-BB-22815). <4960> 袖ヶ浦市, 40 m elev., on trunk of standing dead tree, 1996 Aug. 8, coll. T.Furuki no. 13167 (CBM-BB-23248); 50 m elev., on base of trunk of *Illicium anisatum*, 1996 Mar. 8, coll. T.Kawana no. 96030807 (CBM-BB-22480). <4961> 袖ヶ浦市, 40 m elev., on trunk of *Castanopsis sieboldii*, 1996 Aug. 31, coll. T.Kawana no.

96083132 (CBM-BB-22574). <4971> 袖ヶ浦市, 60 m elev., on standing dead of *Cryptomeria*, 1997 Mar. 2, coll. T.Kawana no. 97030213 (CBM-BB-24004). <4980> 袖ヶ浦市, 60 m elev., on fallen log, 1996 Dec. 4, coll. T.Kawana no. 96100403 (CBM-BB-22754). <5082> 市原市, 80 m elev., on decaying log, 1987 July 12, coll. H.Takamiya no. 87093 (CBM-BB-4498). <5145> 睦沢町, 40 m elev., on rotten log, 1992 May 31, coll. H.Takamiya no. 92009 (CBM-BB-13248). <5147> 睦沢町, 5 m elev., on decaying log, 1992 Aug. 16, coll. H.Takamiya no. 92024 (CBM-BB-13263). <5187> 睦沢町, 65 m elev., on decorticated logs, 1991 July 8, coll. H.Takamiya no. 91014 (CBM-BB-9804). <5189>, 一宮町, 30 m elev., on trunk, 1987 June 7, coll. H.Takamiya no. 87092 (CBM-BB-4327). <5792> 市原市, 100 m elev., on soil, 1989 Apr. 13, coll. T.Furuki no. 8009 (CBM-BB-17370); on trunk of *Prunus*, 1989 Apr. 13, coll. T.Furuki no. 8013 (CBM-BB-17374). <5800> 睦沢町, 105 m elev., on base of trunk, 1991 Dec. 16, coll. H.Takamiya no. 91076 (CBM-BB-9843). <6149> 君津市, 80 m elev., on trunk of *Quercus serrata*, 2002 Dec. 12, coll. T.Kawana no. 02121213 (CBM-BB-27649). <6159> 君津市, 100 m elev., on trunk of *Quercus glauca*, 2003 Nov. 15, coll. T.Kawana no. 03111517 (CBM-BB-27806); on trunk of *Mallotus japonicus*, 2003 Nov. 15, coll. T.Kawana no. 03111520 (CBM-BB-27809); on fallen log, 2003 Dec. 3, coll. T.Kawana no. 03120311 (CBM-BB-27910); on base of *Cryptomeria*, 2003 Dec. 3, coll. T.Kawana no. 03120312 (CBM-BB-27911); on trunk of *Cryptomeria*, 2003 Dec. 3, coll. T.Kawana no. 03120333 (CBM-BB-27930); 170 m elev., on boulder, 2002 Aug. 28, coll. T.Kawana no. 02082814 (CBM-BB-27465). <6176> 富津市, 68 m elev., on base of trunk, 2001 Dec. 23, coll. T.Furuki no. 17003 (CBM-BB-25591). <6195> 富津市, 200 m elev., on boulder, 1997 Mar. 26, coll. T.Furuki no. 13405 (CBM-BB-23891). <6231> 君津市, 90 m elev., on trunk of *Quercus serrata*, 2003 Jan. 21, coll. T.Kawana no. 03012142 (CBM-BB-27689). <6250> 君津市, 100 m elev., on decaying log, 2003 Nov. 24, coll. T.Kawana no. 03112443 (CBM-BB-27908). <6251> 君津市, 30 m elev., on dead trunk of *Cryptomeria japonica*, 1976 July 30, coll. T.Nakamura no. 1119c (CBM-BB-1470). <6260> 君津市, 200-300 m elev., on base of trunk of tree, 1993 Dec. 22, coll. T.Furuki no. 11682 (CBM-BB-16927); 300 m elev., on soil, 1993 Dec. 22, coll. T.Nakamura no. 93034 (CBM-BB-16603). <6276> 君津市, 140 m elev., on rock, 2016 Mar. 28, coll. T.Furuki no. 24181 (CBM-BB-38638). <6279> 君津市, 230 m elev., on trunk of *Cedurus*, 2015 Mar. 11, coll. T.Furuki no. 23759 (CBM-BB-37549). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11630 (CBM-BB-16875). <6301> 市原市, 120 m elev., on soil, 1992 Dec. 18, coll. T.Furuki no. 11289 (CBM-BB-11645); on decaying log, 1992 Dec. 18, coll. T.Furuki no. 11295 (CBM-BB-11651). <6329> 大多喜町, 110 m elev., on decaying log, 1993 Nov. 23, coll. H.Takamiya no. 93153 (CBM-BB-18118). <6337> 大多喜町, 170 m elev., on decaying log, 1994 Mar. 15, coll. H.Takamiya no. 94037 (CBM-BB-18641). <6381> 鴨川市, 220 m elev., on decaying log, 1995 Dec. 15, coll. H.Takamiya no. 95106 (CBM-BB-21089). <6389> 大多喜町, on decaying log, 1993 Nov. 14, coll. H.Takamiya no. 93139 (CBM-BB-18104). <6390> 鴨川市, 160 m elev., on base of trunk of *Pinus thunbergii*, 1995 Mar. 20, coll. H.Takamiya no. 95079 (CBM-BB-21062). <6394> 大多喜町, 320 m elev., on decaying log, 1993 Nov. 7, coll. H.Takamiya no. 93106 (CBM-BB-18071). <6606> 富津市, 150 m elev., on rock cliff, 1989 June 15, coll. T.Furuki no. 8206 (CBM-BB-17564). <6616> 鋸南町, 230 m elev., on tuff cliff, 1974 Nov. 1, coll. T.Nakamura no. 327 (CBM-BB-831); 250 m elev., on trunk, 1989 June 15, coll. T.Furuki no. 8279 (CBM-BB-17636). <6689> 南房総市, 40 m elev., on decaying log, 1992 Nov. 18, coll. H.Suga no. 2891 (CBM-BB-13481). <6773> 南房総市, 320 m elev., on crevice, 1992 Nov. 11, coll. H.Suga no. 2877 (CBM-BB-13466). <6780> 南房総市, 260 m elev., on soil, 1992 Nov. 18, coll. H.Suga no. 2928 (CBM-BB-13517); 340 m elev., on trunk of *Prunus*, 2003 Mar. 5, coll. T.Furuki no. 18475 (CBM-BB-28174); on fallen log, 1992 Nov. 18, coll. H.Suga no. 2938 (CBM-BB-13527); 342 m elev., on branch, 1992 Nov. 18, coll. H.Suga no. 2949 (CBM-

BB-13538). <6782> 南房総市, 330 m elev., on trunk of *Cryptomeria*, 2003 Mar. 7, coll. T.Furuki no. 18568 (CBM-BB-28268). <6911> 鴨川市, 250 m elev., on rock, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24483 (CBM-BB-39400); 280 m elev., on cliff, 2015 Mar. 11, coll. T.Furuki no. 23709 (CBM-BB-37499). <6922> 鴨川市, 115 m elev., on trunk, 2016 Mar. 9, coll. T.Furuki no. 24123 (CBM-BB-38580). <7155> 南房総市, 65 m elev., on tuff cliff, 2001 May 17, coll. T.Furuki no. 16595 (CBM-BB-25394). <7178> 館山市, 65 m elev., on rock cliff, 2003 Mar. 7, coll. T.Furuki no. 18565 (CBM-BB-28265). <7439> 館山市, on rock cliff, 1987 Dec. 10, coll. T.Nakamura no. 4778 (CBM-BB-3728). <7496> 館山市, 20 m elev., on boulder, 2003 Mar. 6, coll. T.Furuki no. 18543 (CBM-BB-28243). <7700> 南房総市, 5 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18498 (CBM-BB-28198). <不明> 鴨川市, 1997 Apr. 17, coll. T.Furuki no. 13500 (CBM-BB-23986).

***Lophocolea nakajimae* S.Hatt. & Inoue (= *Chiloscyphus nakajimae* (S.Hatt. & Inoue) J.J.Engel & R.M.Schust.) ナカジマトサカゴケ**

<6267> 君津市, 100 m elev., on rotten log, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24533 (CBM-BB-39450). <6279> 君津市, 200 m elev., on decaying log, 1995 Mar. 2, coll. T.Furuki no. 12031 (CBM-BB-21582); 230 m elev., on rotten log of *Cryptomeria*, 2015 Mar. 11, coll. T.Furuki no. 23731 (CBM-BB-37521). <6390> 鴨川市, 250 m elev., on decaying log, 1996 Jan. 14, coll. T.Furuki no. 12822 (CBM-BB-21766). <6901> 鴨川市, 250 m elev., on rotten log, 2019 Feb. 27, coll. T.Furuki no. 25260e (CBM-BB-41740). <不明> 鴨川市, on rotten log, 1997 Apr. 17, coll. T.Furuki no. 13497 (CBM-BB-23983).

Lunulariaceae ミカヅキゼニゴケ科

***Lunularia cruciata* (L.) Dumort. ex Lindb. ミカヅキゼニゴケ**

<0277> 野田市, 15 m elev., on soil, 2014 Dec. 31, coll. Y.Utsumi no. 141231-13 (CBM-BB-37738). <0469> 野田市, 13 m elev., on soil, 2016 Apr. 8, coll. Y.Utsumi & T.Furuki no. 24266 (CBM-BB-38723). <0479> 野田市, 12.8 m elev., on soil, 2016 Apr. 8, coll. Y.Utsumi no. 160408-62 (CBM-BB-39352). <0553> 野田市, 17 m elev., on soil, 2015 Feb. 10, coll. Y.Utsumi no. 150210-17 (CBM-BB-38211); <0594> 野田市, 15 m elev., on soil, 2014 Dec. 31, coll. Y.Utsumi no. 141031-4 (CBM-BB-37597); 2014 Dec. 31, coll. Y.Utsumi no. 141031-39 (CBM-BB-37630). <1687> 市川市, 15 m elev., on soil, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100715 (CBM-BB-35567). <1697> 市川市, 20 m elev., on soil, 2012 Feb. 9, coll. H.Kaneko & K.Kaneko no. 100466 (CBM-BB-35322). <1716> 南房総市, 25 m elev., on soil, 2005 Nov. 22, coll. T.Furuki no. 20942 (CBM-BB-30318). <1755> 白井市, 20 m elev., 2007 Feb. 26, coll. T.Furuki no. 21640 (CBM-BB-31705). <2406> 市川市, 25 m elev., on soil, 2011 June 18, coll. H.Kaneko & K.Kaneko no. 100296 (CBM-BB-35158). <2413> 市川市, 15 m elev., on soil, 2011 Dec. 22, coll. H.Kaneko & K.Kaneko no. 100375 (CBM-BB-35233). <2419> 船橋市, 20 m elev., on soil, 2010 Feb. 5, coll. H.Kaneko & K.Kaneko no. 090649 (CBM-BB-34017). <2427> 市川市, 20 m elev., on soil, 2011 Jan. 03, coll. H.Kaneko & K.Kaneko no. 100125 (CBM-BB-34989). <2438> 船橋市, 10 m elev., on soil, 2009 Dec. 30, coll. H.Kaneko & K.Kaneko no. 090540 (CBM-BB-33909). <2446> 船橋市, 20 m elev., on soil, 2009 Apr. 6, coll. H.Kaneko & K.Kaneko no. 090314 (CBM-BB-33683). <2458> 船橋市, 20 m elev., on soil, 2009 Feb. 12, coll. H.Kaneko & K.Kaneko no. 090009 (CBM-BB-33383). <2464> 市川市, 5 m elev., on soil, 2011 Apr. 28, coll. H.Kaneko & K.Kaneko no. 100237 (CBM-BB-35099). <2469> 船橋市, 5 m elev., on soil, 2009 Feb. 12, coll. H.Kaneko & K.Kaneko no. 090056 (CBM-BB-33426), no. 090057 (CBM-BB-33427), 090061 (CBM-BB-33431); 2009 Mar. 8, coll. H.Kaneko & K.Kaneko no. 090144 (CBM-BB-33514), 090146 (CBM-BB-33516), 090147 (CBM-BB-33517), 090160 (CBM-BB-33530); 2009 Feb. 21, coll. H.Kaneko & K.Kaneko no. 090107 (CBM-BB-33477). <2473> 市川市, 5 m elev., on soil, 2012 Feb. 22, coll. H.Kaneko & K.Kaneko no. 100478 (CBM-

BB-35334). <2491> 浦安市, 2 m elev., on soil, 2013 Apr. 18, coll. H.Kaneko & K.Kaneko no. 130046 (CBM-BB-39701). <2499> 船橋市, 5 m elev., on soil, 2010 Apr. 3, coll. H.Kaneko & K.Kaneko no. 090742 (CBM-BB-34104). <2503> 船橋市, 20 m elev., on soil, 1989 June 30, coll. T.Furuki no. 8293 (CBM-BB-17650). <2542> 船橋市, 20 m elev., on soil, 2009 Nov. 23, coll. H.Kaneko & K.Kaneko no. 090486 (CBM-BB-33855). <2543> 船橋市, 10 m elev., on soil, 2009 Nov. 12, coll. H.Kaneko & K.Kaneko no. 090456 (CBM-BB-33825). <2544> 船橋市, 15 m elev., on soil, 2009 Sept. 4, coll. H.Kaneko & K.Kaneko no. 090413 (CBM-BB-33782). <2550> 船橋市, 20 m elev., on soil, 2009 Mar. 12, coll. H.Kaneko & K.Kaneko no. 090208 (CBM-BB-33578). <2571> 習志野市, 20 m elev., on soil, 2008 Nov. 7, coll. K.Kaneko no. 080651 (CBM-BB-31495). <2575> 習志野市, 20 m elev., on soil, 2008 June 28, coll. H.Kaneko & K.Kaneko no. 080265 (CBM-BB-31109). <2580> 習志野市, 5 m elev., on soil, 2008 Sept. 22, coll. K.Kaneko no. 080477 (CBM-BB-31321); 2008 Dec. 10, coll. K.Kaneko no. 080526 (CBM-BB-31370), 080527 (CBM-BB-31371). <2581> 習志野市, 10 m elev., on soil, 2008 May 18, coll. H.Kaneko & K.Kaneko no. 080139 (CBM-BB-30983); 15 m elev., on soil, 2008 Apr. 9, coll. H.Kaneko & K.Kaneko no. 080016 (CBM-BB-30860); 2008 June 8, coll. H.Kaneko & K.Kaneko no. 080184 (CBM-BB-31028); 20 m elev., on soil, 2008 Apr. 13, coll. H.Kaneko & K.Kaneko no. 080046 (CBM-BB-30890), no. 080047 (CBM-BB-30891). <2582> 習志野市, 10 m elev., on soil, 2008 May 3, coll. H.Kaneko & K.Kaneko no. 080089 (CBM-BB-30933), no. 080090 (CBM-BB-30934). <2638> 佐倉市, 20 m elev., on soil, 1997 Sept. 10, coll. T.Furuki no. 13872 (CBM-BB-24819). <3201> 浦安市, 2 m elev., on soil, 2013 May 8, coll. H.Kaneko & K.Kaneko no. 130055 (CBM-BB-39710), 130066 (CBM-BB-39721); 2013 Nov. 28, coll. T.Furuki, H.Kaneko & K.Kaneko no. 130221 (CBM-BB-39875); 2013 Apr. 8, coll. H.Kaneko & K.Kaneko no. 130022 (CBM-BB-39677). <3213> 浦安市, 2 m elev., on soil, 2013 Dec. 17, coll. H.Kaneko & K.Kaneko no. 130160 (CBM-BB-39815). <3231> 浦安市, 2 m elev., on soil, 2013 Nov. 22, coll. H.Kaneko & K.Kaneko no. 130184 (CBM-BB-39839). <3349> 千葉市, 26 m elev., on sandy soil, 1994 Dec. 18, coll. H.Suga no. 3802 (CBM-BB-19007). <3358> 千葉市, 20 m elev., on sandy soil, 1994 Jan. 21, coll. H.Suga no. 3640 (CBM-BB-16828). <3369> 千葉市, 19 m elev., on soil, 1993 Nov. 16, coll. H.Suga no. 3480 (CBM-BB-16614); 1993 Nov. 16, coll. H.Suga no. 3483 (CBM-BB-16617). <3379> 千葉市, 3 m elev., on soil, 1994 Dec. 25, coll. H.Suga no. 3838 (CBM-BB-19043); 1994 Dec. 25, coll. H.Suga no. 3848 (CBM-BB-19055); 1994 Dec. 25, coll. H.Suga no. 3850 (CBM-BB-19058). <3413> 四街道市, 15 m elev., on soil, 1994 Nov. 24, coll. H.Suga no. 3886 (CBM-BB-19095); 22 m elev., on soil, 1994 Nov. 24, coll. H.Suga no. 3892 (CBM-BB-19101). <3431> 千葉市, 18 m elev., on stone walls, 2009 Feb. 9, coll. Tai. Nakamura no. 20090209-03 (CBM-BB-42457). <3470> 千葉市, 15 m elev., on soil, 1974 June 1, coll. T.Nakamura no. 74 (CBM-BB-577). <3481> 千葉市, 20 m elev., on soil, 1992 Mar. 10, coll. H.Suga s.n. (CBM-BB-16980); 1993 Dec. 5, coll. T.Furuki s.n. (CBM-BB-15799). <3924> 千葉市, 18 m elev., on soil, 1993 Feb. 6, coll. H.Suga no. 3067 (CBM-BB-11758). <4360> 袖ヶ浦市, 20 m elev., on soil, 1996 Sept. 1, coll. T.Furuki no. 13228 (CBM-BB-23309). <5021> 市原市, 30 m elev., on soil, 1992 Dec. 18, coll. T.Furuki no. 11359 (CBM-BB-11715). <5147> 睦沢町, 5 m elev., on soil, 1992 Aug. 16, coll. H.Takamiya no. 92023 (CBM-BB-13262). <7440> 館山市, 30 m elev., on soil, 2003 Mar. 7, coll. T.Furuki no. 18551 (CBM-BB-28251). <7496> 館山市, 20 m elev., on soil, 2003 Mar. 6, coll. T.Furuki no. 18539 (CBM-BB-28239).

Plagiochilaceae ハネゴケ科

***Plagiochila furcifolia* Mitt. ヤハズハネゴケ**

<2285> 旭市, 50 m elev., on trunk, 1985 Dec. 17, coll. H.Takamiya no. 85105 (CBM-BB-4280). <2295> 旭市, 50 m elev., on rock, 1976 Nov. 6, coll. H.Takamiya no. 76052 (CBM-BB-4157).

***Plagiochila ovalifolia* Mitt. マルバハネゴケ**

<1947> 成田市, 35 m elev., on soil, 2004 June 14, coll. T.Furuki no. 19372 (CBM-BB-29060). <5183> 睦沢町, 70 m elev., on clay, 1990 Nov. 17, coll. H.Takamiya no. 90411 (CBM-BB-9774). <5802> 睦沢町, 80 m elev., on rock, 1987 June 28, coll. H.Takamiya no. 87095 (CBM-BB-4468). <6149> 君津市, 80 m elev., on rock cliff, 2002 Dec. 12, coll. T.Kawana no. 02121204 (CBM-BB-27646). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17801 (CBM-BB-28071). <6250> 君津市, 100 m elev., on trunk of Cryptomeria, 2003 Nov. 18, coll. T.Kawana no. 03111813 (CBM-BB-27848); 120 m elev., on rock cliff, 2003 June 3, coll. T.Kawana no. 03060334 (CBM-BB-27748); 200-300 m elev., on boulder, 1993 Dec. 22, coll. T.Furuki no. 11670 (CBM-BB-16915). <6260> 君津市, 150250 m elev., on rocks, 1976 Sept. 5, coll. T.Nakamura no. 1275b (CBM-BB-1530). <6281> 君津市, 150 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88090 (CBM-BB-4340). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11617 (CBM-BB-16862). <6301> 市原市, 85 m elev., on rock cliff, 2011 June 12, coll. T.Furuki no. 22636 (CBM-BB-36417); 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8100 (CBM-BB-17461). <6316> 大多喜町, on boulder, 1974 Dec. 18, coll. S.Asano no. 31 (CBM-BB-337). <6328> 大多喜町, 150 m elev., on rotten log, 1993 Nov. 23, coll. H.Takamiya no. 93167 (CBM-BB-18132). <6377> 大多喜町, on cliff, 1994 Mar. 15, coll. H.Takamiya no. 94049 (CBM-BB-18653). <6381> 鴨川市, 210 m elev., on cliff, 1995 Dec. 15, coll. H.Takamiya no. 95109 (CBM-BB-21092). <6390> 鴨川市, 160 m elev., on boulder, 1995 Mar. 20, coll. H.Takamiya no. 95082 (CBM-BB-21065). <6391> 鴨川市, 190 m elev., on cliff, 1995 Dec. 15, coll. H.Takamiya no. 95122 (CBM-BB-21105). <6394> 大多喜町, 310 m elev., on boulder, 1993 Nov. 7, coll. H.Takamiya no. 93104 (CBM-BB-18069). <6616> 鋸南町, 100 m elev., on rock, 1997 Aug. 22, coll. T.Furuki no. 13841 (CBM-BB-38088). <6617> 鋸南町, on soil, 1976 Dec. 13, coll. H.Takamiya no. 76069 (CBM-BB-4174). <6811> 君津市, 250 m elev., on rock, 2002 Dec. 19, coll. T.Kawana no. 02121919 (CBM-BB-27661). <6901> 鴨川市, 250 m elev., on rock, 2005 June 14, coll. T.Furuki no. 19870 (CBM-BB-30262). <6902> 鴨川市, 340 m elev., on boulder, 1944 June 4, coll. S.Asano s.n. (CBM-BB-107); on boulder, 1944 June 4, coll. S.Asano s.n. (CBM-BB-108); 1944 June 4, coll. S.Asano s.n. (CBM-BB-112). <6903> 鴨川市, 190 m elev., on boulder, 1995 Dec. 22, coll. H.Takamiya no. 95132 (CBM-BB-21115). <6912> 鴨川市, 340 m elev., on boulder, 1944 July 16, coll. S.Asano no. 13 (CBM-BB-121); 1944 July 16, coll. S.Asano no. 16 (CBM-BB-124); 1937 Aug. 16, coll. M.Tuzize no. 1055 (CBM-BB-40774); 150 m elev., on rock, 1987 Aug. 3, coll. H.Takamiya no. 87096 (CBM-BB-4541). <6913> 鴨川市, 210 m elev., on boulder, 1996 Dec. 10, coll. H.Takamiya no. 96098 (CBM-BB-22927). <6915> 鴨川市, 80 m elev., on boulder, 1995 Mar. 15, coll. H.Takamiya no. 95019 (CBM-BB-21002). <6922> 鴨川市, 115 m elev., on rock cliff, 2016 Mar. 9, coll. T.Furuki no. 24133 (CBM-BB-38590). <6924> 鴨川市, 110 m elev., on ledge, 1995 Mar. 15, coll. H.Takamiya no. 95049 (CBM-BB-21032). <6935> 鴨川市, 120 m elev., on boulder, 1995 Dec. 14, coll. H.Takamiya no. 95162 (CBM-BB-21145). <6946> 鴨川市, 60 m elev., on ledge, 1996 Dec. 14, coll. H.Takamiya no. 96172 (CBM-BB-23001). <不明> 鴨川市, 1937 June 1, coll. M.Tuzize no. 565 (CBM-BB-40284).

***Plagiochila parvifolia* Lindenb. (= *P. yokogurensis* Steph.) ヨコグラハネゴケ**

<6912> 鴨川市, 275 m elev., on trunk, 1991 Dec. 2, coll. T.Furuki no. 9841 (CBM-BB-17902).

***Plagiochila sciophila* Nees ex Lindenb. (= *P. acanthophylla* Gottsche ssp. *japonica* (Sande Lac.) Inoue = *P. japonica* Sande Lac.) コハネゴケ**

<1687> 市川市, 15 m elev., on rock, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100704 (CBM-BB-35556); 2012

Dec. 5, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100888 (CBM-BB-35738). <1965> 成田市, 35 m elev., on trunk, 1950 Mar. 4, coll. T.Namegata no. 47 (CBM-BB-17049). <1972> 成田市, 40 m elev., on trunk, 1988 Aug. 10, coll. H.Takamiya no. 88091 (CBM-BB-4422). <2264> 東庄町, 50 m elev., on root of tree, 1987 Aug. 25, coll. H.Takamiya no. 87097 (CBM-BB-4562). <2285> 旭市, 50 m elev., on trunk, 1985 Dec. 17, coll. H.Takamiya no. 85106 (CBM-BB-4281). <3005> 旭市, 30 m elev., on trunk of Quercus glauca, 1975 Dec. 31, coll. T.Nakamura no. 681 (CBM-BB-1242). <3555> 東金市, 25 m elev., on decaying log, 1989 Aug. 2, coll. H.Takamiya no. 89078 (CBM-BB-4665). <3558> 山武市, 30 m elev., on trunk of tree, 1985 Aug. 11, coll. H.Takamiya no. 85044 (CBM-BB-4219). <3567> 東金市, 35 m elev., on decayed Cryptomeria japonica, 1989 Sept. 10, coll. H.Takamiya no. 89157 (CBM-BB-4636). <3567> 東金市, 40 m elev., on soil, 2002 Jan. 25, coll. T.Furuki no. 17134 (CBM-BB-25532). <4036> 東金市, 15 m elev., on trunk of Quercus serrata, 1989 Sept. 17, coll. H.Takamiya no. 89199 (CBM-BB-4584). <5183> 睦沢町, 65 m elev., on base of trunk, 1990 Nov. 17, coll. H.Takamiya no. 90408 (CBM-BB-9771). <5802> 睦沢町, 80 m elev., on rock, 1987 June 28, coll. H.Takamiya no. 87098 (CBM-BB-4469). <5810> 睦沢町, 125 m elev., on root of tree, 1992 Aug. 10, coll. H.Takamiya no. 92105 (CBM-BB-13344). <6159> 君津市, 80 m elev., on rock cliff, 2002 Nov. 2, coll. T.Kawana no. 021102016 (CBM-BB-27478); on root of scrub, 2002 Nov. 2, coll. T.Kawana no. 021102027 (CBM-BB-27489); 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17804 (CBM-BB-28074); on trunk of Diospyrus, 2003 Nov. 15, coll. T.Kawana no. 03111519 (CBM-BB-27808); on rock cliff, 2003 Nov. 15, coll. T.Kawana no. 03111525 (CBM-BB-27814); on trunk of Euptelea polyandra, 2003 Dec. 3, coll. T.Kawana no. 03120315 (CBM-BB-27914); on rock cliff, 2003 Dec. 3, coll. T.Kawana no. 03120334a (CBM-BB-27931). <6185> 富津市, 80 m elev., on clay, 1995 Jan. 24, coll. T.Kawana no. 95012404 (CBM-BB-18940); on rock, 1995 Jan. 24, coll. T.Kawana no. 95012411 (CBM-BB-18947). <6195> 富津市, 200 m elev., on trunk, 1997 Mar. 26, coll. T.Furuki no. 13432 (CBM-BB-23918). <6241> 君津市, 80 m elev., on rock, 2003 Feb. 4, coll. T.Kawana no. 03020430 (CBM-BB-27723). <6250> 君津市, 200-300 m elev., on trunk, 1993 Dec. 22, coll. T.Furuki no. 11653 (CBM-BB-16898). <6251> 君津市, 100 m elev., on decaying log, 2002 Dec. 1, coll. T.Kawana no. 02120121 (CBM-BB-27612); 150 m elev., on rock cliff, 2002 Nov. 3, coll. T.Kawana no. 02111803 (CBM-BB-27518); 2002 Nov. 18, coll. T.Kawana no. 02111828 (CBM-BB-27543); on soil, 2002 Nov. 29, coll. T.Kawana no. 02112949 (CBM-BB-27587). <6260> 君津市, 150250 m elev., on rocks, 1976 Sept. 5, coll. T.Nakamura no. 1286a (CBM-BB-1536). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11604 (CBM-BB-16849). <6301> 市原市, 120 m elev., on trunk of Acer, 1992 Sept. 8, coll. T.Furuki no. 11154 (CBM-BB-11544). <6329> 大多喜町, 110 m elev., on decaying log, 1993 Nov. 23, coll. H.Takamiya no. 93154 (CBM-BB-18119). <6332> 大多喜町, 180 m elev., on mad stone cliff, 1993 Mar. 14, coll. H.Takamiya no. 93010 (CBM-BB-17976). <6334> 大多喜町, 135 m elev., on base of trunk of Zelkova serrata, 1992 Dec. 16, coll. H.Takamiya no. 92208 (CBM-BB-17962). <6358> 大多喜町, 170 m elev., on decaying log, 1993 Nov. 14, coll. H.Takamiya no. 93129 (CBM-BB-18094). <6368> 大多喜町, 180 m elev., on mad-stone cliff at Castanopsis sieboldii-, 1994 Dec. 23, coll. H.Takamiya no. 94082 (CBM-BB-18686). <6377> 大多喜町, 210 m elev., on trunk base of Quercus, 1994 Mar. 15, coll. H.Takamiya no. 94050 (CBM-BB-18654). <6381> 鴨川市, 210 m elev., on decaying log, 1995 Dec. 15, coll. H.Takamiya no. 95112 (CBM-BB-21095). <6391> 鴨川市, 195 m elev., on root of standing dead tree, 1995 Dec. 15, coll. H.Takamiya no. 95120 (CBM-BB-21103). <6609> 富津市, 60 m elev., on base of trunk, 1996 July 14, coll. T.Kawana no. 96071401 (CBM-BB-23540). <6689> 南房総市, 50 m elev., on stone wall, 1992 Nov. 18, coll. H.Suga no. 2895 (CBM-BB-13485). <6710> 富津市, 175 m elev., on trunk, 1989 Apr. 20, coll. T.Furuki no. 8195 (CBM-BB-17556). <6780> 南房総市, 280 m elev., on stone wall, 1992 Nov. 18, coll. H.Suga no.

2930 (CBM-BB-13519). <6811> 君津市, 250 m elev., on rock, 2002 Dec. 19, coll. T.Kawana no. 02122122 (CBM-BB-27679). <6901> 鴨川市, 250 m elev., on fallen log, 2019 Feb. 27, coll. T.Furuki no. 25260k (CBM-BB-41746); 200 m elev., on trunk, 1989 Apr. 13, coll. T.Furuki no. 8127 (CBM-BB-17488). <6902> 鴨川市, 290 m elev., on stone wall, 1996 Mar. 29, coll. H.Takamiya no. 96046 (CBM-BB-22875). <6903> 鴨川市, 200 m elev., on base of trunk of *Castanopsis sieboldii*, 1995 Dec. 22, coll. H.Takamiya no. 95140 (CBM-BB-21123). <6904> 鴨川市, 150 m elev., on base of trunk of *Quercus salicina* at *Quercus salicina*-*Machilus*, 1995 Mar. 15, coll. H.Takamiya no. 95010 (CBM-BB-20993). <6911 & 6901> 鴨川市, 1937 Aug. 15, coll. M.Tuzize no. 976 (CBM-BB-40701). <6911> 鴨川市, 1937 Aug. 15, coll. M.Tuzize no. 956 (CBM-BB-40681); 君津市, 280 m elev., on decaying log, 2015 Mar. 11, coll. T.Furuki no. 23701 (CBM-BB-37491); <6912> 鴨川市, 340 m elev., on boulder, 1944 June 4, coll. S.Asano s.n. (CBM-BB-106); <6922> 鴨川市, 115 m elev., on trunk, 2016 Mar. 9, coll. T.Furuki no. 24126 (CBM-BB-38583); <6924> 鴨川市, 120 m elev., on branch, 1995 Mar. 15, coll. H.Takamiya no. 95047 (CBM-BB-21030); <6926> 鴨川市, 90 m elev., on base of trunk of *Quercus acuta*, 1995 Dec. 14, coll. H.Takamiya no. 95191 (CBM-BB-21173); <6932> 鴨川市, 180 m elev., on stone wall, 1996 Dec. 10, coll. H.Takamiya no. 96119 (CBM-BB-22948); 250 m elev., on rock, 1985 July 14, coll. H.Takamiya no. 85002 (CBM-BB-4177); 250 m elev., on rock, 1985 July 14, coll. H.Takamiya no. 85011 (CBM-BB-4186). <6935> 鴨川市, 90 m elev., on base of trunk of *Castanopsis sieboldii*, 1995 Dec. 14, coll. H.Takamiya no. 95163 (CBM-BB-21146). <6942> 鴨川市, 70 m elev., on base of trunk of *Castanopsis sieboldii*, 1996 Dec. 10, coll. H.Takamiya no. 96136 (CBM-BB-22965). <6946> 鴨川市, 60 m elev., on base of trunk of *Castanopsis sieboldii*, 1996 Dec. 14, coll. H.Takamiya no. 96171 (CBM-BB-23000). <6956> 鴨川市, 70 m elev., on root of *Castanopsis sieboldii*, 1996 Dec. 14, coll. H.Takamiya no. 96153 (CBM-BB-22982).

***Plagiochila trabeculata* Steph. キハネゴケ**

<2295> 旭市, 50 m elev., on decaying log, 1976 Nov. 6, coll. H.Takamiya no. 76053 (CBM-BB-4158). <3558> 山武市, 30 m elev., on dead trunk of tree in valley, 1985 Aug. 11, coll. H.Takamiya no. 85041 (CBM-BB-4216).

Porellaceae クラマゴケモドキ科

***Porella caespitans* (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt. ex T.Katag. & T.Yamag. ヒメクラマゴケモドキ**
<6862> 鴨川市, on rock 1976 Nov. 6, coll. H.Takamiya no. 76048 (CBM-BB-4153).

***Porella densifolia* (Steph.) S.Hatt. var. *fallax* (C.Massal.) S.Hatt. シゲリクラマゴケモドキ**

<6257> 君津市, 1938 May 2, coll. M.Tuzize no. 1583-2 (CBM-BB-41028). <6323> 大多喜町, 160 m elev., on cliff, 1993 Mar. 14, coll. H.Takamiya no. 93033 (CBM-BB-17999).

***Porella grandiloba* Lindb. オオクラマゴケモドキ**

<1687> 市川市, 15 m elev., on rock, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 22968 (CBM-BB-35793); 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100705 (CBM-BB-35557). <6281> 君津市, 150 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88100 (CBM-BB-4342). <6932> 鴨川市, 160 m elev., on stone wall, 1996 Dec. 10, coll. H.Takamiya no. 96120 (CBM-BB-22949).

***Porella japonica* (Sande Lac.) Mitt. ヤマトクラマゴケモドキ**

<6149> 君津市, 80 m elev., on trunk of *Quercus serrata*, 2002 Dec. 6, coll. T.Kawana no. 02120637 (CBM-BB-27640); 170 m elev., on rock cliff, 2002 Aug. 28, coll. T.Kawana no. 02082816 (CBM-BB-27467). <6159> 君津市, 80 m elev., on root of scrub, 2002 Nov. 2, coll. T.Kawana no. 021102026 (CBM-BB-27488). <6250> 君津市, on boulder, 1976 Dec. 18, coll. H.Takamiya no. 76047 (CBM-BB-4152). <6250> 君津市, 200-300 m elev., on

trunk, 1993 Dec. 22, coll. T.Furuki no. 11671 (CBM-BB-16916). <6258> 君津市, 100 m elev., on rock cliff, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24529 (CBM-BB-39446). <6290> 君津市, 150 m elev., on sand rock, 1993 Dec. 21, coll. T.Nakamura s.n. (CBM-BB-16988); on decaying root, 1993 Dec. 22, coll. T.Nakamura s.n. (CBM-BB-16989). <6323> 大多喜町, 160 m elev., on base of trunk of *Zelkova serrata*, 1993 Mar. 14, coll. H.Takamiya no. 93032 (CBM-BB-17998). <6377> 大多喜町, 120 m elev., on trunk base of *Quercus*, 1994 Mar. 15, coll. H.Takamiya no. 94051 (CBM-BB-18655). <6389> 大多喜町, 240 m elev., on mad stone ledge, 1993 Nov. 14, coll. H.Takamiya no. 93143 (CBM-BB-18108). <6394> 大多喜町, 310 m elev., on trunk base of *Quercus*, 1993 Nov. 7, coll. H.Takamiya no. 93108 (CBM-BB-18073). <6780> 南房総市, 330 m elev., on stone wall, 1992 Nov. 18, coll. H.Suga no. 2950 (CBM-BB-13539). <6862> 鴨川市, on rock, 1976 Nov. 16, coll. H.Takamiya no. 76061 (CBM-BB-4166). <6902> 鴨川市, 290 m elev., on root of tree, 1996 Mar. 29, coll. H.Takamiya no. 96050 (CBM-BB-22879); 200 m elev., on rock, 1976 Aug. 10, coll. H.Takamiya no. 76014 (CBM-BB-4119). <6911> 君津市, 280 m elev., on rock cliff, 2015 Mar. 11, coll. T.Furuki no. 23711 (CBM-BB-37501). <6926> 鴨川市, 90 m elev., on stone wall, 1995 Dec. 14, coll. H.Takamiya no. 95193 (CBM-BB-21175). <6932> 鴨川市, 50 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12051 (CBM-BB-21602). <6937> 鴨川市, 80 m elev., on clay, 1995 Dec. 14, coll. H.Takamiya no. 95183 (CBM-BB-21165).

***Porella perrottetiana* (Mont.) Trevis. クラマゴケモドキ**

<6247> 君津市, 100 m elev., on rock, 1976 Dec. 4, coll. H.Takamiya no. 76030 (CBM-BB-4135). <6250> 君津市, on rock, 1976 Dec. 18, coll. H.Takamiya no. 76046 (CBM-BB-4151). <6361> 鴨川市, 1937 June 2, coll. M.Tuzize no. 590 (CBM-BB-40309). <6872> 鴨川市, 1937 July 17, coll. M.Tuzize no. 819 (CBM-BB-40541). <6911 & 6901> 鴨川市, 1937 Aug. 15, coll. M.Tuzize no. 989 (CBM-BB-40712). <6922> 鴨川市, 115 m elev., on rock, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24569 (CBM-BB-39486).

***Porella ulophylla* (Steph.) S.Hatt. (= *Macvicaria ulophylla* (Steph.) S.Hatt.) チヂミカヤゴケ**

<2637> 佐倉市, 5 m elev., on trunk of *Aphananthe aspera*, 1996 Dec. 16, coll. T.Furuki no. 13282 (CBM-BB-23364). <3475> 千葉市, 15 m elev., on trunk of *Robinia pseudoacacia*, 1995 July 25, coll. H.Suga no. 4057 (CBM-BB-20820). <4059> 東金市, 8 m elev., on trunk of *Diospyros kaki*, 1989 July 2, coll. H.Takamiya no. 89062 (CBM-BB-4747). <4160> 東金市, 5 m elev., on trunk of *Prunus mume*, 1989 Dec. 10, coll. H.Takamiya no. 90181 (CBM-BB-4897). <4906> 袖ヶ浦市, 60 m elev., on trunk of *Eriobotrya japonica*, 1996 Aug. 29, coll. T.Furuki no. 13193 (CBM-BB-23274). <4935> 袖ヶ浦市, 20 m elev., on trunk of *Ginkgo biloba*, 1996 Aug. 26, coll. T.Kawana no. 96082601 (CBM-BB-22542). <4961> 袖ヶ浦市, 40 m elev., on decaying *Neolitsea sericera*, 1996 Dec. 4, coll. T.Kawana no. 96100410 (CBM-BB-22761). <4970> 袖ヶ浦市, 60 m elev., on trunk of *Cinnamomum camphora*, 1996 Sept. 30, coll. T.Kawana no. 96093029 (CBM-BB-22800). <5082> 市原市, 80 m elev., on trunk, 1987 July 12, coll. H.Takamiya no. 87109 (CBM-BB-4500). <5155> 睦沢町, 55 m elev., on trunk, 1991 Aug. 27, coll. H.Takamiya no. 91042 (CBM-BB-9823). <5176> 睦沢町, 60 m elev., on base of trunk, 1991 Aug. 26, coll. H.Takamiya no. 91027 (CBM-BB-9810). <5182> 睦沢町, 90 m elev., on trunk of standing dead tree, 1992 Aug. 30, coll. H.Takamiya no. 92038 (CBM-BB-13277). <5782> 市原市, 70 m elev., on trunk, 2013 June 27, coll. T.Furuki no. 23278 (CBM-BB-36972). <5790> 市原市, 280 m elev., on trunk, 1991 June 5, coll. H.Suga no. 2336 (CBM-BB-9950). <5792> 市原市, 75 m elev., on trunk, 2011 June 12, coll. T.Furuki no. 22640a (CBM-BB-36421); 85 m elev., on rock cliff, 2018 Dec. 9, coll. T.Furuki no. 25046 (CBM-BB-41484); 150 m elev., on trunk, 1988 May 29, coll. H.Takamiya no. 88103 (CBM-BB-4360). <6119> 君津市, 80 m elev., on trunk of *Ginkgo*, 2003 Jan. 21, coll. T.Kawana no. 03012146 (CBM-BB-27692). <6138> 君津市, 100 m elev., on trunk of

Machilus, 2004 Feb. 5, coll. T.Kawana no. 04020517 (CBM-BB-28125). <6139> 君津市, 100 m elev., on base of Quercus serrata, 2003 Dec. 26, coll. T.Kawana no. 04012614 (CBM-BB-28025). <6231> 君津市, 90 m elev., on trunk of Diospyrus kaki, 2003 Jan. 21, coll. T.Kawana no. 03012143 (CBM-BB-27690). <6231> 君津市, 90 m elev., on trunk of Quercus acutissima, 2003 Jan. 21, coll. T.Kawana no. 03012144 (CBM-BB-27691). <6251> 君津市, 150 m elev., on trunk of Quercus glauca, 2002 Dec. 1, coll. T.Kawana no. 02120123 (CBM-BB-27614). <6279> 君津市, 230 m elev., on fallen log, 2015 Mar. 11, coll. T.Furuki no. 23751 (CBM-BB-37541). <6300> 市原市, 115 m elev., on trunk, 2005 June 14, coll. T.Furuki no. 19863 (CBM-BB-30255); 2005 June 14, coll. T.Furuki no. 19864 (CBM-BB-30256); 2005 June 14, coll. T.Furuki no. 19867 (CBM-BB-30259). <6301> 市原市, 120 m elev., on trunk of Acer, 1992 Sept. 8, coll. T.Furuki no. 11146 (CBM-BB-11536). <6334> 大多喜町, 135 m elev., on trunk of standing dead tree, 1992 Dec. 16, coll. H.Takamiya no. 92203 (CBM-BB-17957). <6355> 大多喜町, 210 m elev., on trunk of Morus australis, 1994 Nov. 3, coll. H.Takamiya no. 94105 (CBM-BB-18709). <6358> 大多喜町, 200 m elev., on decaying log, 1993 Nov. 14, coll. H.Takamiya no. 93122 (CBM-BB-18087). <6373> 大多喜町, 310 m elev., on trunk base of Quercus, 1993 Dec. 24, coll. H.Takamiya no. 93074 (CBM-BB-18040). <6385> 大多喜町, 190 m elev., on trunk base of Quercus, 1993 Nov. 7, coll. H.Takamiya no. 93087 (CBM-BB-18052). <6393> 大多喜町, 200 m elev., on trunk, 1988 June 19, coll. H.Takamiya no. 88105 (CBM-BB-4386). <6737> 鴨川市, on sand rock, 1944 July 29, coll. S.Asano s.n. (CBM-BB-126). <6758> 鴨川市, 1937 Aug. 20, coll. M.Tuzize no. 1089 (CBM-BB-40805). <6783> 南房総市, 63 m elev., on trunk of Ginkgo biloba, 1992 Nov. 11, coll. H.Suga no. 2831 (CBM-BB-13421). <6872> 鴨川市, 250 m elev., on trunk, 1986 Aug. 11, coll. H.Takamiya no. 86098 (CBM-BB-4300). <6902> 鴨川市, 1937 May 27, coll. M.Tuzize no. 419 (CBM-BB-40139). <6911> 鴨川市, 295 m elev., on trunk of Ginkgo, 2019 Feb. 27, coll. T.Furuki no. 25259 (CBM-BB-41735). <6912> 鴨川市, 275 m elev., on trunk, 1991 Dec. 2, coll. T.Furuki no. 9842 (CBM-BB-17903). <7496> 館山市, 20 m elev., on trunk of Ginkgo, 2003 Mar. 6, coll. T.Furuki no. 18546 (CBM-BB-28246).

Porella vernicosa Lindb. ニスビキカヤゴケ

<5598> 富津市, 280 m elev., on trunk, 1988 July 3, coll. H.Takamiya no. 88106 (CBM-BB-4402). <6257> 君津市, 1938 May 2, coll. M.Tuzize no. 1596-2 (CBM-BB-41042). <6862> 鴨川市, 1937 July 16, coll. M.Tuzize no. 748 (CBM-BB-40467). <不明> 鴨川市, 1937 July 17, coll. M.Tuzize no. 823b (CBM-BB-40546); M.Tuzize no. 846c (CBM-BB-40571).

Pseudolepicoleaceae マツバウロコゴケ科

Blepharostoma minus Horik. チャボマツバウロコゴケ

<3908> 千葉市, 40 m elev., on soil, 2013 June 6, coll. T.Furuki no. 23277 (CBM-BB-36971). <4029> 東金市, 45 m elev., on clay, 1990 July 11, coll. H.Takamiya no. 90039 (CBM-BB-4787). <5082> 市原市, 80 m elev., on soil, 1987 July 12, coll. H.Takamiya no. 87065 (CBM-BB-4496). <5173> 睦沢町, 55 m elev., on clay, 1990 Nov. 17, coll. H.Takamiya no. 90394 (CBM-BB-9762). <5182> 睦沢町, 90 m elev., on clay, 1992 Aug. 30, coll. H.Takamiya no. 92035 (CBM-BB-13274). <5183> 睦沢町, 70 m elev., on clay, 1990 Nov. 17, coll. H.Takamiya no. 90404 (CBM-BB-9767). <5187> 睦沢町, 70 m elev., on soil, 1991 July 8, coll. H.Takamiya no. 91015 (CBM-BB-9805). <5194> 睦沢町, 70 m elev., on clay, 1991 July 8, coll. H.Takamiya no. 91008 (CBM-BB-9798). <5197> いすみ市, 85 m elev., on soil, 1992 Nov. 1, coll. H.Takamiya no. 92141 (CBM-BB-13380). <5561> 富津市, 20 m elev., on stone wall, 1997 Mar. 8, coll. T.Kawana no. 97030805 (CBM-BB-24023). <5571> 富津市, 20 m elev., on crevice of stonewall, 1997 Mar. 8, coll. T.Kawana no. 97030811 (CBM-BB-24031). <5589> 君津市, 50 m elev., on soil, 2003 Nov. 7, coll. T.Kawana no. 03110712 (CBM-BB-27769). <5747> 大多喜町, 120 m elev., on clay, 1994 Nov. 27, coll. H.Takamiya no. 94123 (CBM-BB-18727). <5756> 大多喜町, 200 m elev.,

on rocks, 1994 Dec. 16, coll. H.Takamiya no. 94180 (CBM-BB-18784). <5758> 大多喜町, 90 m elev., on rock, 1994 Nov. 27, coll. H.Takamiya no. 94128 (CBM-BB-18732). <5768> 大多喜町, 110 m elev., on rock, 1987 July 19, coll. H.Takamiya no. 87067 (CBM-BB-4519). <5776> 大多喜町, 180 m elev., on clay, 1994 Dec. 16, coll. H.Takamiya no. 94159 (CBM-BB-18763). <5778> 大多喜町, 80 m elev., on soil, 1994 Dec. 16, coll. H.Takamiya no. 94154 (CBM-BB-18758). <5790> 市原市, 200 m elev., on soil, 1992 Nov. 13, coll. T.Furuki no. 11225 (CBM-BB-11581). <5801> 睦沢町, 105 m elev., on soil, 1992 Aug. 10, coll. H.Takamiya no. 92125 (CBM-BB-13364); 125 m elev., on soil, 1992 Aug. 10, coll. H.Takamiya no. 92104 (CBM-BB-13343). <5811> 睦沢町, 90 m elev., on clay, 1990 Nov. 21, coll. H.Takamiya no. 90419 (CBM-BB-9782); <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17793 (CBM-BB-28063); on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17811b (CBM-BB-28082). <6195> 富津市, 200 m elev., on rock, 1997 Mar. 26, coll. T.Furuki no. 13404 (CBM-BB-23890). <6250> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 22, coll. T.Furuki no. 11668 (CBM-BB-16913). <6279> 君津市, 240 m elev., on soil, 2015 Mar. 11, coll. T.Furuki no. 23724 (CBM-BB-37514). <6279> 君津市, 240 m elev., on rock cliff, 2015 Mar. 11, coll. T.Furuki no. 23787 (CBM-BB-37577). <6281> 君津市, 150 m elev., on soil, 1988 Apr. 24, coll. H.Takamiya no. 88072 (CBM-BB-4579). <6301> 市原市, 120 m elev., on rock cliff, 1992 Sept. 8, coll. T.Furuki no. 11159 (CBM-BB-11549); on fallen log, 1992 Dec. 18, coll. T.Furuki no. 11344 (CBM-BB-11700). <6323> 大多喜町, 150 m elev., on cliff, 1993 Mar. 14, coll. H.Takamiya no. 93030 (CBM-BB-17996). <6373> 大多喜町, 300 m elev., on soil, 1993 Dec. 24, coll. H.Takamiya no. 93069 (CBM-BB-18035). <6380> 鴨川市, 250 m elev., on clay, 1995 Mar. 20, coll. H.Takamiya no. 95067 (CBM-BB-21050). <6385> 大多喜町, 190 m elev., among humus, 1993 Nov. 7, coll. H.Takamiya no. 93088 (CBM-BB-18053). <6390> 鴨川市, 160 m elev., on soil, 1995 Mar. 20, coll. H.Takamiya no. 95085 (CBM-BB-21068). <6392> 市原市, 100 m elev., on soil, 1996 Nov. 7, coll. T.Furuki no. 13320 (CBM-BB-23402). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no. 8237 (CBM-BB-17595). <6616> 鋸南町, 100 m elev., on rock, 1997 Aug. 22, coll. T.Furuki no. 13842b (CBM-BB-38090). 富津市, 210 m elev., on stone wall, 1974 Nov. 1, coll. T.Nakamura no. 324 (CBM-BB-827). <6700> 富津市, 150 m elev., on rock, 1989 Apr. 20, coll. T.Furuki no. 8172 (CBM-BB-17533). <6773> 南房総市, 180 m elev., on soil, 1992 Nov. 11, coll. H.Suga no. 2863 (CBM-BB-13451). <6869> 鴨川市, 200 m elev., on sand rock, 1987 Mar. 13, coll. T.Nakamura no. 4748 (CBM-BB-3698). <6901> 鴨川市, 290 m elev., on stone wall, 1995 Mar. 28, coll. H.Takamiya no. 96008 (CBM-BB-22837). <6912> 鴨川市, 200 m elev., on soil, 1987 Aug. 3, coll. H.Takamiya no. 87066 (CBM-BB-4535). <6922> 鴨川市, 170 m elev., on soil, 1995 Mar. 28, coll. H.Takamiya no. 95097 (CBM-BB-21080). <6932> 鴨川市, 150 m elev., on soil, 1996 Dec. 10, coll. H.Takamiya no. 96114 (CBM-BB-22943). <6942> 鴨川市, 80 m elev., on soil, 1996 Dec. 10, coll. H.Takamiya no. 96135 (CBM-BB-22964). <6956> 鴨川市, 60 m elev., on clay, 1996 Dec. 14, coll. H.Takamiya no. 96155 (CBM-BB-22984). <7042> 勝浦市, 20 m elev., on soil, 1997 Mar. 13, coll. T.Furuki no. 13377 (CBM-BB-23863). <7155> 南房総市, 30 m elev., on soil, 2001 May 17, coll. T.Furuki no. 16580 (CBM-BB-25378). <7700> 南房総市, 25 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18522 (CBM-BB-28222).

Radulaceae ケビラゴケ科

Radula constricta Steph. クビレケビラゴケ

<2874> 芝山町, 36 m elev., on trunk, 1991 Mar. 10, coll. H.Suga no. 2271 (CBM-BB-9923). <3423> 四街道市, 30 m elev., on trunk of Ginkgo biloba, 1975 Dec. 14, coll. T.Nakamura no. 4011 (CBM-BB-1194). <3566> 東金市, 40 m elev., on trunk of Prunus mume, 2002 Jan. 25, coll. T.Furuki no. 17101 (CBM-BB-25499). <4970> 袖ヶ浦市, 60 m elev., on trunk of Diospyros kaki, 1996 Sept. 30, coll. T.Kawana no. 96093008 (CBM-BB-22780). <5792> 市原市, 150 m elev., on trunk, 1988

May 29, coll. H.Takamiya no. 88098 (CBM-BB-4359). <6241> 君津市, 80 m elev., on trunk of Diospyrus kaki, 2003 Feb. 8, coll. T.Kawana no. 03020824 (CBM-BB-27733). <6301> 市原市, 120 m elev., on trunk of Acer, 1992 Sept. 8, coll. T.Furuki no. 11151 (CBM-BB-11541).

Radula japonica Gottsche ex Steph. ヤマトケビラゴケ

<2285> 旭市, 50 m elev., on trunk, 1985 Dec. 17, coll. H.Takamiya no. 85107 (CBM-BB-4282). <2637> 佐倉市, 30 m elev., on trunk of Hovenia dulcis, 1996 Dec. 16, coll. T.Furuki no. 13317 (CBM-BB-23399). <2874> 芝山町, 60 m elev., on trunk, 1988 Apr. 12, coll. H.Takamiya no. 88094 (CBM-BB-4571). <3008> 銚子市, 30 m elev., on trunk, 1989 Sept. 29, coll. T.Furuki no. 9363 (CBM-BB-13553); on decaying log, 1989 Sept. 29, coll. T.Furuki no. 9371 (CBM-BB-13561); 1989 Sept. 29, coll. T.Furuki no. 9415 (CBM-BB-13605). <3587> 東金市, 55 m elev., on trunk of Castanopsis sieboldii, 1989 Aug. 2, coll. H.Takamiya no. 89088 (CBM-BB-4675). <4005> 東金市, 60 m elev., on trunk of Cinnamomum camphora, 1990 July 23, coll. H.Takamiya no. 90084 (CBM-BB-4823). <4027> 東金市, 60 m elev., on trunk of Machilus thunbergii, 1990 July 15, coll. H.Takamiya no. 90054 (CBM-BB-4795). <4028> 東金市, 50 m elev., on trunk, 1991 Feb. 2, coll. T.Furuki no. 9788 (CBM-BB-17892). <4038> 東金市, 35 m elev., on trunk of Acer palmatum, 1990 July 7, coll. H.Takamiya no. 90036 (CBM-BB-4784). <4059> 東金市, 8 m elev., on trunk of Podocarpus, 1989 July 2, coll. H.Takamiya no. 89053 (CBM-BB-4693). <4065> 大網白里市, 70 m elev., on decaying log, 1990 Nov. 11, coll. H.Takamiya no. 90356 (CBM-BB-9734). <4334> 市原市, 4 m elev., on trunk of Castanopsis sieboldii, 1975 Mar. 4, coll. T.Nakamura no. 417 (CBM-BB-909). <4906> 袖ヶ浦市, 60 m elev., on trunk of Diospyrus kaki, 1996 Aug. 29, coll. T.Furuki no. 13191 (CBM-BB-23272). <4906> 袖ヶ浦市, 60 m elev., 1996 Aug. 29, coll. T.Furuki no. 13194 (CBM-BB-23275). <4961> 袖ヶ浦市, 40 m elev., on trunk of Zelkova serrata, 1996 Aug. 31, coll. T.Kawana no. 96083130 (CBM-BB-22573); on trunk of Wisteria floribunda, 1996 Aug. 31, coll. T.Kawana no. 96083135 (CBM-BB-22576). <4970> 袖ヶ浦市, 60 m elev., on trunk of Diospyrus kaki, 1996 Sept. 30, coll. T.Kawana no. 96093005 (CBM-BB-22777). <5026> 長南町, m elev., on trunk, 1976 Sept. 10, coll. H.Takamiya no. 76022 (CBM-BB-4127). <5045> 市原市, 80 m elev., on decaying log, 1987 July 12, coll. H.Takamiya no. 87103 (CBM-BB-4490). <5082> 市原市, 80 m elev., on decaying log, 1987 July 12, coll. H.Takamiya no. 87102 (CBM-BB-4499). <5082> 市原市, 90 m elev., on trunk of Castanopsis sieboldii, 1977 Mar. 15, coll. T.Nakamura no. 1305 (CBM-BB-1546). <5147> 睦沢町, 6 m elev., on trunk, 1992 Aug. 16, coll. H.Takamiya no. 92018 (CBM-BB-13257). <5155> 睦沢町, 50 m elev., on tonewall, 1991 Aug. 27, coll. H.Takamiya no. 91048 (CBM-BB-9829). <5176> 睦沢町, 60 m elev., on trunk, 1991 Aug. 26, coll. H.Takamiya no. 91035 (CBM-BB-9818). <5182> 睦沢町, 85 m elev., on base of trunk, 1992 Aug. 30, coll. H.Takamiya no. 92039 (CBM-BB-13278). <5189>, 一宮町, 30 m elev., on trunk, 1987 June 7, coll. H.Takamiya no. 87101 (CBM-BB-4328). <5192> 睦沢町, 75 m elev., on trunk, 1990 Nov. 17, coll. H.Takamiya no. 90376 (CBM-BB-9752). <5790> 市原市, 280 m elev., on trunk, 1991 June 5, coll. H.Suga no. 2335 (CBM-BB-9949); 250 m elev., on trunk, 1991 June 5, coll. T.Furuki no. 9808 (CBM-BB-11525). <5792> 市原市, 150 m elev., on trunk, 1988 May 29, coll. H.Takamiya no. 88095 (CBM-BB-4358). <5797> 大多喜町, 80 m elev., on trunk, 1988 July 10, coll. H.Takamiya no. 88096 (CBM-BB-4408). <5800> 睦沢町, 105 m elev., on trunk, 1991 Dec. 16, coll. H.Takamiya no. 91078 (CBM-BB-9845). <6169> 君津市, m elev., on rock, 1976 Dec. 18, coll. H.Takamiya no. 76044 (CBM-BB-4149). <6250> 君津市, 100 m elev., on trunk of Acer, 2003 Nov. 24, coll. T.Kawana no. 03112432 (CBM-BB-27897); 200-300 m elev., on boulder, 1993 Dec. 22, coll. T.Furuki no. 11652 (CBM-BB-16897). <6260> 君津市, 150-250 m elev., on rocks, 1976 Sept. 5, coll. T.Nakamura no. 1287 (CBM-BB-1537); 200-300 m elev., on rock cliff, 1993 Dec. 22, coll. T.Furuki no. 11697 (CBM-BB-16942). <6288> 鴨川市, 270 m elev., on trunk, 2019

Feb. 26, coll. T.Furuki no. 25247 (CBM-BB-41723). <6316> 大多喜町, on boulder, 1974 Dec. 29, coll. S.Asano no. 1 (CBM-BB-349). <6357> 大多喜町, 190 m elev., on trunk of Machilus thunbergii, 1994 Dec. 16, coll. H.Takamiya no. 94059 (CBM-BB-18663). <6724> 富津市, 100 m elev., on clay, 1993 Nov. 26, coll. T.Kawana no. 93403 (CBM-BB-18581). <6734> 富津市, 160 m elev., on trunk of Machilus thunbergii, 1995 Dec. 19, coll. T.Kawana no. 95120814 (CBM-BB-23535). <6811> 君津市, 250 m elev., on trunk of Euptelea polyandra, 2002 Dec. 19, coll. T.Kawana no. 02121923 (CBM-BB-27665). <6872> 鴨川市, 200 m elev., on trunk, 1986 Aug. 11, coll. H.Takamiya no. 86081 (CBM-BB-4296). <6902> 鴨川市, 370 m elev., on trunk, 2016 Feb. 24, coll. T.Furuki no. 24056 (CBM-BB-38513). <6922> 鴨川市, 140 m elev., on base of trunk of Quercus acuta, 1995 Mar. 28, coll. H.Takamiya no. 95098 (CBM-BB-21081). <7496> 館山市, 20 m elev., on trunk of Cinnamomum, 2003 Mar. 6, coll. T.Furuki no. 18525 (CBM-BB-28225); on trunk of Castanopsis, 2003 Mar. 6, coll. T.Furuki no. 18538 (CBM-BB-28238). <不明> 君津市, 1937 June 30, coll. M.Tuzize no. 636 (CBM-BB-40355).

Radula kojana Steph. コウヤケビラゴケ

<1776> 船橋市, 10 m elev., on soil, 1989 June 30, coll. T.Furuki no. 8329 (CBM-BB-17685). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17795 (CBM-BB-28065). <6251> 君津市, 30 m elev., on rock, 1976 July 30, coll. T.Nakamura no. 1125d (CBM-BB-1485). <6281> 君津市, 150 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88099 (CBM-BB-4341). <6390> 鴨川市, 150 m elev., on cliff, 1995 Mar. 20, coll. H.Takamiya no. 95084 (CBM-BB-21067). <6901> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8110 (CBM-BB-17471). <6902> 鴨川市, 310 m elev., on stone wall, 1996 Mar. 29, coll. H.Takamiya no. 96040 (CBM-BB-22869). <6911> 鴨川市, 250 m elev., on rock, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24484 (CBM-BB-39401). <6913> 鴨川市, 125 m elev., on rock cliff, 2016 Mar. 9, coll. T.Furuki no. 24141 (CBM-BB-38598); on soil, 2016 Mar. 9, coll. T.Furuki no. 24152 (CBM-BB-38609). <6932> 鴨川市, 250 m elev., on soil, 1985 July 14, coll. H.Takamiya no. 85013 (CBM-BB-4188); on rock, 1985 July 14, coll. H.Takamiya no. 85014 (CBM-BB-4189). <6937> 鴨川市, 80 m elev., on clay, 1995 Dec. 14, coll. H.Takamiya no. 95182 (CBM-BB-21164).

Radula oyamensis Steph. ヒメケビラゴケ

<2874> 芝山町, 60 m elev., on trunk, 1988 Apr. 12, coll. H.Takamiya no. 88092 (CBM-BB-4570). <5858>, いすみ市, 60 m elev., on trunk, 1987 July 5, coll. H.Takamiya no. 87104 (CBM-BB-4477). <6247> 君津市, 150 m elev., on trunk, 1989 Aug. 24, coll. T.Furuki no. 8332 (CBM-BB-17688). <6257> 君津市, 250 m elev., on trunk, 1986 Aug. 25, coll. H.Takamiya no. 86085 (CBM-BB-4309). <6267> 君津市, 100 m elev., on trunk, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24530 (CBM-BB-39447); 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24535 (CBM-BB-39452). <6286> 君津市, 165 m elev., on trunk, 2016 Mar. 28, coll. T.Furuki no. 24218 (CBM-BB-38675). <6297> 君津市, 325 m elev., on trunk, 2016 Mar. 28, coll. T.Furuki no. 24205 (CBM-BB-38662). <6352> 君津市, 200 m elev., on trunk, 2017 Mar. 7, coll. H.Kiguchi & T.Furuki no. 24542 (CBM-BB-39459). <6357> 大多喜町, 190 m elev., on trunk base of Quercus, 1994 Dec. 16, coll. H.Takamiya no. 94058 (CBM-BB-18662). <6391> 鴨川市, 200 m elev., on trunk of Pinus, 1995 Mar. 3, coll. T.Furuki no. 12062 (CBM-BB-21613). <6901> 鴨川市, 250 m elev., on branch, 2019 Feb. 27, coll. T.Furuki no. 25260i (CBM-BB-41744). <6902> 鴨川市, 340 m elev., on trunk, 1964 Feb. 23, coll. S.Asano no. 38 (CBM-BB-262). <6912> 鴨川市, 275 m elev., on stone wall, 1991 Dec. 2, coll. T.Furuki no. 9844 (CBM-BB-17905). <6922> 鴨川市, 115 m elev., on trunk, 2016 Mar. 9, coll. T.Furuki no. 24120 (CBM-BB-38577).

Radula perrottetii Gottsche ex Steph. オオケビラゴケ

<5192> 睦沢町, 65 m elev., on humus, 1990 Nov. 17, coll.

H.Takamiya no. 90375 (CBM-BB-9751). <5598> 富津市, 250 m elev., on rock, 1988 July 3, coll. H.Takamiya no. 88097 (CBM-BB-4400). <5802> 睦沢町, 80 m elev., on rock, 1987 June 28, coll. H.Takamiya no. 87105 (CBM-BB-4470). <6159> 君津市, 100 m elev., on rock cliff, 2003 Dec. 3, coll. T.Kawana no. 03120334b (CBM-BB-27932). <6195> 富津市, 200 m elev., on rock, 1997 Mar. 26, coll. T.Furuki no. 13420 (CBM-BB-23906). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11605 (CBM-BB-16850). <6862> 鴨川市, on rock, 1976 Nov. 16, coll. H.Takamiya no. 76059 (CBM-BB-4164). <6901> 鴨川市, 200 m elev., on rock cliff, 1990 Apr. 15, coll. T.Furuki no. 8587 (CBM-BB-17875). <6912> 鴨川市, 200 m elev., on rock, 1987 Aug. 3, coll. H.Takamiya no. 87106 (CBM-BB-4543).

Radula tokiensis Steph. ミヤコノケビラゴケ

<1687> 市川市, 15 m elev., on rock, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 22974 (CBM-BB-35799); 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100703 (CBM-BB-35555). <1776> 船橋市, 20 m elev., on rock, 2010 Mar. 22, coll. H.Kaneko & K.Kaneko no. 090720 (CBM-BB-34082).

Scapaniaceae ヒシャクゴケ科

Diplophyllum serrulatum (Müll.Frib.) Steph. ノコギリコオイゴケ

<6281> 君津市, 150 m elev., on soil, 1988 Apr. 24, coll. H.Takamiya no. 88085 (CBM-BB-4339). <6286> 君津市, 165 m elev., on soil, 2016 Mar. 28, coll. T.Furuki no. 24222 (CBM-BB-38679). <6361> 鴨川市, 200 m elev., on soil, 2001 Jan. 12, coll. T.Furuki no. 16554 (CBM-BB-25354). <6911> 君津市, 275 m elev., on soil, 2015 Mar. 19, coll. T.Furuki no. 23846 (CBM-BB-37818). <6932> 鴨川市, 250 m elev., on soil, 1985 Apr. 21, coll. H.Takamiya no. 85001 (CBM-BB-4176).

Scapania ligulata Steph. (= *S. javanica* Gottsche var. *nipponica* S.Hatt. ツクシヒシャクゴケ = *S. stephanii* Müll. Frib. チャボヒシャクゴケ) シタバヒシャクゴケ

<1687> 市川市, 15 m elev., on rock, 2012 June 7, coll. T.Furuki, H.Kaneko & K.Kaneko no. 100702 (CBM-BB-35554). <1757> 白井市, 25 m elev., 2007 Feb. 26, coll. T.Furuki no. 21603 (CBM-BB-31668). <2437> 船橋市, 10 m elev., on soil, 2009 Dec. 30, coll. H.Kaneko & K.Kaneko no. 090582 (CBM-BB-33951). <4028> 東金市, 40 m elev., on cliff, 2002 Jan. 25, coll. T.Furuki no. 17081 (CBM-BB-25480). <5589> 君津市, 50 m elev., on rock cliff, 2003 Nov. 7, coll. T.Kawana no. 03110735 (CBM-BB-27784); on boulder, 2003 Nov. 7, coll. T.Kawana no. 03110741 (CBM-BB-27790). <5790> 市原市, 200 m elev., on rock, 1992 Nov. 13, coll. T.Furuki no. 11242 (CBM-BB-11598). <5790> 市原市, 250 m elev., on soil, 1991 June 5, coll. T.Furuki no. 9799 (CBM-BB-11516); 1991 June 5, coll. T.Furuki no. 9801 (CBM-BB-11518); 1991 June 5, coll. T.Furuki no. 9815 (CBM-BB-11532); 市原市, 270 m elev., on sand, 1991 June 5, coll. H.Suga no. 2328 (CBM-BB-9942). <6149> 君津市, 80 m elev., on trunk of *Quercus glauca*, 2003 Nov. 15, coll. T.Kawana no. 03111554 (CBM-BB-27838). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17786 (CBM-BB-28055); 2002 Nov. 2, coll. T.Kawana no. 021102038 (CBM-BB-27500); 2003 Dec. 3, coll. T.Kawana no. 03120336 (CBM-BB-27934); T.Kawana no. 03120339 (CBM-BB-27937); 2003 Dec. 4, coll. T.Kawana no. 03120419 (CBM-BB-27997). <6195> 富津市, 200 m elev., on rock, 1997 Mar. 26, coll. T.Furuki no. 13417 (CBM-BB-23903). <6241> 君津市, 80 m elev., on rock, 2003 Feb. 4, coll. T.Kawana no. 03020424 (CBM-BB-27717). <6247> 君津市, 100 m elev., on rock, 1976 Dec. 4, coll. H.Takamiya no. 76029 (CBM-BB-4134); 150 m elev., on rock, 1989 Aug. 24, coll. T.Furuki no. 8334 (CBM-BB-17690). <6250> 君津市, 100 m elev., on soil, 2003 Nov. 18, coll. T.Kawana no. 03111845 (CBM-BB-27880). <6267> 君津市, 100 m elev., on rotten log, 2017 Mar. 6, coll. H.Kiguchi & T.Furuki no. 24531 (CBM-BB-39448). <6278> 君津市, 200 m elev., on rock, 2016 Mar. 3, coll. T.Furuki no. 24110 (CBM-BB-38567). <6281> 君

津市, 150 m elev., on rock, 1988 Apr. 24, coll. H.Takamiya no. 88084 (CBM-BB-4338). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11615 (CBM-BB-16860). <6297> 君津市, 320 m elev., on rock cliff, 2019 Feb. 26, coll. T.Furuki no. 25251 (CBM-BB-41727). <6301> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8066 (CBM-BB-17427); 1989 Apr. 13, coll. T.Furuki no. 8099 (CBM-BB-17460). <6316> 大多喜町, on boulder, 1974 Dec. 18, coll. S.Asano no. 36 (CBM-BB-341). <6380> 鴨川市, 190 m elev., on boulder, 1995 Mar. 20, coll. H.Takamiya no. 95068 (CBM-BB-21051). <6381> 鴨川市, 210 m elev., on cliff, 1995 Dec. 15, coll. H.Takamiya no. 95108 (CBM-BB-21091). <6385> 大多喜町, 180 m elev., on sand, 1993 Nov. 7, coll. H.Takamiya no. 93089 (CBM-BB-18054). <6390> 鴨川市, 170 m elev., on soil, 1995 Mar. 20, coll. H.Takamiya no. 95081 (CBM-BB-21064). <6391> 鴨川市, 180 m elev., on soil, 1995 Dec. 15, coll. H.Takamiya no. 95125 (CBM-BB-21108). <6606> 富津市, 150 m elev., on rock cliff, 1989 June 15, coll. T.Furuki no. 8201 (CBM-BB-17559). <6606> 富津市, 150 m elev., on rock, 1989 June 15, coll. T.Furuki no. 8213 (CBM-BB-17571); 150 m elev., on rock, 1989 June 15, coll. T.Nakamura s.n. (CBM-BB-17716). <6816> 鴨川市, 80 m elev., on boulder, 1974 Aug. 22, coll. S.Asano no. 14 (CBM-BB-321). <6901> 鴨川市, 200 m elev., on rock cliff, 1990 Apr. 1, coll. T.Furuki no. 8546 (CBM-BB-17834); 1990 Apr. 1, coll. T.Furuki no. 8550 (CBM-BB-17838); 1990 Apr. 1, coll. T.Furuki no. 8583 (CBM-BB-17871). <6902> 鴨川市, 340 m elev., 1944 June 4, coll. S.Asano s.n. (CBM-BB-113). <6903> 鴨川市, 190 m elev., on boulder, 1995 Dec. 22, coll. H.Takamiya no. 95131 (CBM-BB-21114). <6911> 君津市, 280 m elev., on boulder, 2015 Mar. 11, coll. T.Furuki no. 23705 (CBM-BB-37495). <6912> 鴨川市, 200 m elev., on rock, 1987 Aug. 3, coll. H.Takamiya no. 87085 (CBM-BB-4539). <6922> 鴨川市, 170 m elev., on clay, 1995 Mar. 28, coll. H.Takamiya no. 95096 (CBM-BB-21079); 122 m elev., on rock cliff, 2016 Mar. 9, coll. T.Furuki no. 24137 (CBM-BB-38594). <6926> 鴨川市, 80 m elev., on boulder, 1995 Dec. 14, coll. H.Takamiya no. 95186 (CBM-BB-21168). <6932> 鴨川市, 50 m elev., on rock, 1995 Mar. 3, coll. T.Furuki no. 12050 (CBM-BB-21601); 250 m elev., on rock, 1985 July 14, coll. H.Takamiya no. 85004 (CBM-BB-4179). <6935> 鴨川市, 120 m elev., on boulder, 1995 Dec. 14, coll. H.Takamiya no. 95166 (CBM-BB-21148). <6937> 鴨川市, 80 m elev., on boulder, 1995 Dec. 14, coll. H.Takamiya no. 95178 (CBM-BB-21160). <7700> 南房総市, 25 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18521 (CBM-BB-28221).

Scapania parvitexta Steph. (= *S. parvidens* auct. non Steph.) コアミメヒシャクゴケ

<6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17817 (CBM-BB-28088). <6250> 君津市, 120 m elev., on rock cliff, 2003 June 3, coll. T.Kawana no. 03060348 (CBM-BB-27760). <6301> 鴨川市, 200 m elev., on soil, 1989 Apr. 13, coll. T.Furuki no. 8101 (CBM-BB-17462); on rock cliff, 1990 Apr. 1, coll. T.Furuki no. 8564 (CBM-BB-17852). <6901> 鴨川市, 200 m elev., on rock cliff, 1990 Apr. 1, coll. T.Furuki no. 8565 (CBM-BB-17853); 1990 Apr. 1, coll. T.Furuki no. 8580 (CBM-BB-17868). <6912> 鴨川市, 100 m elev., on boulder, 1941 Mar. 31, coll. Y.Ikegami no. 2857 (CBM-BB-73).

Solenostomataceae ソロイゴケ科

Solenostoma fusiforme (Steph.) R.M.Schust. (= *Jungermannia fusiformis* (Steph.) Steph.) ツムウロコゴケ

<4045> 大網白里市, 70 m elev., on clay, 1990 Nov. 10, coll. H.Takamiya no. 90227 (CBM-BB-4939). <6195> 富津市, 200 m elev., on gravel, 1997 Mar. 26, coll. T.Furuki no. 13425 (CBM-BB-23911).

Solenostoma horikawanum (Amakawa) Váňa, Hentschel & J. Heinrichs (= *Jungermannia horikawana* (Amakawa) Amakawa) ホリカワツボミゴケ

<5082> 市原市, 80 m elev., on rock cliff, 1992 Dec. 4, coll. T.Furuki no. 11279 (CBM-BB-11635). <5589> 君津市, 50 m

elev., on soil, 2003 Nov. 7, coll. T.Kawana no. 03110708 (CBM-BB-27765). <5792> 市原市, 85 m elev., on rock cliff, 2018 June 16, coll. T.Furuki no. 24851b (CBM-BB-41273). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17799 (CBM-BB-28069); 170 m elev., on boulder, 2002 Aug. 28, coll. T.Kawana no. 02082812 (CBM-BB-27462). <6301> 市原市, 100 m elev., on rock, 1999 Aug. 18, coll. T.Furuki no. 15788 (CBM-BB-25004); 120 m elev., on rock cliff, 1992 Sept. 8, coll. T.Furuki no. 11161 (CBM-BB-11551). <6392> 市原市, 100 m elev., on cliff, 1996 Nov. 7, coll. T.Furuki no. 13322 (CBM-BB-23404). <6912> 鴨川市, 315 m elev., on soil, 2016 Dec. 18, coll. T.Furuki no. 24479 (CBM-BB-39392).

***Solenostoma infusum* (Mitt.) J.Hentschel (= *Jungermannia infusca* (Mitt.) Steph.) オオホウキゴケ**

<1672> 松戸市, on soil, 1974 May 25, coll. T.Nakamura no. 66 (CBM-BB-570); 1974 May 25, coll. T.Nakamura no. 67 (CBM-BB-571). <2264> 東庄町, 50 m elev., on boulder, 1987 Aug. 25, coll. H.Takamiya no. 87081 (CBM-BB-4561). <3693> 山武市, 10 m elev., on sandy soil, 1975 Feb. 2, coll. T.Nakamura no. 414 (CBM-BB-905). <4017> 東金市, 40 m elev., on soil, 1990 Aug. 23, coll. H.Takamiya no. 90131 (CBM-BB-4860). <4036> 東金市, 20 m elev., on rock cliff, 1991 Feb. 2, coll. T.Furuki no. 9778 (CBM-BB-17882); on soil, 1991 Feb. 2, coll. T.Furuki no. 9780 (CBM-BB-17884). <4038> 東金市, 30 m elev., on clay, 1990 July 6, coll. H.Takamiya no. 90024 (CBM-BB-4781). <4045> 大網白里町, 70 m elev., on clay, 1990 Nov. 10, coll. H.Takamiya no. 90226 (CBM-BB-4938). <4046> 東金市, 30 m elev., on clay, 1989 Sept. 17, coll. H.Takamiya no. 89178 (CBM-BB-4641). <5082> 市原市, 80 m elev., on rock, 1987 July 12, coll. H.Takamiya no. 87082 (CBM-BB-4497). <5196> 睦沢町, 65 m elev., on soil, 1992 Sept. 27, coll. H.Takamiya no. 92065 (CBM-BB-13304). <5778> 大多喜町, 110 m elev., on clay, 1994 Dec. 16, coll. H.Takamiya no. 94152 (CBM-BB-18756). <5790> 市原市, 270 m elev., on sand, 1991 June 5, coll. H.Suga no. 2327 (CBM-BB-9941). <5791> 市原市, 200 m elev., on soil, 1991 June 5, coll. H.Suga no. 2318 (CBM-BB-9933). <5797> 大多喜町, 70 m elev., on wet soil, 1988 July 10, coll. H.Takamiya no. 88081 (CBM-BB-4406). <6159> 君津市, 100 m elev., on rock cliff, 2002 Dec. 23, coll. T.Furuki no. 17785 (CBM-BB-28054); 2002 Dec. 23, coll. T.Furuki no. 17809 (CBM-BB-28079). <6290> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 21, coll. T.Furuki no. 11629 (CBM-BB-16874). <6300> 市原市, 115 m elev., on soil, 2005 June 14, coll. T.Furuki no. 19860 (CBM-BB-30252). <6301> 鴨川市, m elev., 1937 June 1, coll. M.Tuzize no. 574 (CBM-BB-40293). 市原市, 150 m elev., on soil, 1989 Apr. 13, coll. T.Furuki no. 8040 (CBM-BB-17401). <6316> 大多喜町, m elev., on boulder, 1974 Dec. 29, coll. S.Asano no. 2 (CBM-BB-350). <6373> 大多喜町, 310 m elev., on soil, 1993 Dec. 24, coll. H.Takamiya no. 93073 (CBM-BB-18039). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no. 8233 (CBM-BB-17591); on rock cliff, 1989 June 15, coll. T.Furuki no. 8241 (CBM-BB-17598); on stone wall, 1989 June 15, coll. T.Nakamura s.n. (CBM-BB-17715). <6616> 鋸南町, 240 m elev., on rock, 1994 Dec. 1, coll. T.Furuki no. 11801 (CBM-BB-21343). <6712> 鴨川市, 320 m elev., on stone wall, 1991 Sept. 29, coll. H.Suga no. 2471 (CBM-BB-9979). <6780> 南房総市, 120 m elev., on stone wall, 1992 Nov. 18, coll. H.Suga no. 2915 (CBM-BB-13505). <6783> 南房総市, 100 m elev., on stone wall, 1992 Nov. 11, coll. H.Suga no. 2849 (CBM-BB-13437). <6872> 鴨川市, 340 m elev., on soil, 1973 Dec. 29, coll. S.Asano no. 56 (CBM-BB-315). <6901> 鴨川市, 200 m elev., on soil, 1989 Apr. 13, coll. T.Furuki no. 8122 (CBM-BB-17483). <6901> 鴨川市, 200 m elev., on rock cliff, 1990 Apr. 1, coll. T.Furuki no. 8577 (CBM-BB-17865).

***Solenostoma minutissimum* (Amakawa) Bakalin, Vilnet & Furuki (= *Jungermannia pyriformis* Steph. var. *minutissima* Amakawa) コナシガタソロイゴケ**

<6911> 君津市, 280 m elev., on rock cliff, 2015 Mar. 19, coll. T.Furuki no. 23856 (CBM-BB-37828). <6912> 鴨川市, 200

m elev., on soil, 2001 Jan. 12, coll. T.Furuki no. 16556 (CBM-BB-25356).

***Solenostoma plagiochilaceum* (Grolle) Váňa & D.G.Long (= *Jungermannia plagiochilacea* Grolle) ハネツボミゴケ**

<4028> 東金市, 30 m elev., on boulder, 1985 Sept. 1, coll. H.Takamiya no. 85068 (CBM-BB-4243); on clay, 1989 May 28, coll. H.Takamiya no. 89021 (CBM-BB-4611). 東金市, 50 m elev., on rock cliff, 1991 Feb. 2, coll. T.Furuki no. 9792 (CBM-BB-17896). <4038> 東金市, 20 m elev., on clay, 1990 Apr. 25, coll. H.Takamiya no. 90001 (CBM-BB-4761). <5079> 長南町, 70 m elev., on soil, 1987 May 31, coll. H.Takamiya no. 87079 (CBM-BB-4318). <6912> 鴨川市, 340 m elev., on sand rock, 1944 Apr. 16, coll. S.Asano no. 19 (CBM-BB-104).

***Solenostoma rosulans* (Steph.) Váňa & D.J.Long (= *Jungermannia rosulans* (Steph.) Steph.) ツボミゴケ**

<5082> 市原市, 80 m elev., on rock cliff, 1992 Dec. 4, coll. T.Furuki no. 11278 (CBM-BB-11634). <6279> 君津市, 200 m elev., on rock, 1995 Mar. 2, coll. T.Furuki no. 12041 (CBM-BB-21592). <6301> 鴨川市, 200 m elev., on soil, 1989 Apr. 13, coll. T.Furuki no. 8065 (CBM-BB-17426). <6901> 鴨川市, 200 m elev., on rock cliff, 1990 Apr. 1, coll. T.Furuki no. 8545 (CBM-BB-17833).

***Solenostoma rubripunctatum* (S.Hatt.) R.M.Schust. (= *Jungermannia rubripunctata* (S.Hatt.) Amakawa) アカツボミゴケ**

<3008> 銚子市, 30 m elev., on soil, 1989 Sept. 29, coll. T.Furuki no. 9403 (CBM-BB-13593).

***Solenostoma shinii* (Amakawa) Bakalin**

<6258> 君津市, 95 m elev., on rock cliff, 2015 Mar. 19, coll. T.Furuki no. 23875 (CBM-BB-37847). <6279> 君津市, 240 m elev., on rock cliff, 2015 Mar. 11, coll. T.Furuki no. 23796 (CBM-BB-37586).

***Solenostoma truncatum* (Nees) R.M.Schust. ex Váňa & D.G.Long (= *Jungermannia truncata* Nees) ツクシツボミゴケ**

<0193> 野田市, 13 m elev., on soil, 2015 June 15, coll. Y.Utsumi no. 150615-37 (CBM-BB-38377). <0193> 野田市, 13 m elev., on concrete, 2015 June 15, coll. Y.Utsumi no. 150615-42 (CBM-BB-38382). <0469> 野田市, 13 m elev., on soil, 2016 Apr. 8, coll. Y.Utsumi & T.Furuki no. 24253 (CBM-BB-38710). <0479> 野田市, 12.8 m elev., on soil, 2016 Apr. 8, coll. Y.Utsumi no. 160408-44 (CBM-BB-39334). <0541> 野田市, 10 m elev., on soil, 2015 June 16, coll. Y.Utsumi no. 150616-6 (CBM-BB-38412); 2015 June 16, coll. Y.Utsumi no. 150616-26 (CBM-BB-38431). <0594> 野田市, 15 m elev., on soil, 2014 Dec. 31, coll. Y.Utsumi no. 141013-5 (CBM-BB-37598), 141031-12 (CBM-BB-37603), 141031-30 (CBM-BB-37621), 141031-41 (CBM-BB-37632). <0903> 野田市, 15 m elev., on soil, 2014 Sept. 19, coll. Y.Utsumi no. 140919-2 (CBM-BB-37399). <1687> 市川市, 15 m elev., on soil, 2012 June 21, coll. T.Furuki, H.Kaneko & K.Kaneko no. 23004 (CBM-BB-35829). <1697> 市川市, 20 m elev., on soil, 2012 Feb. 9, coll. H.Kaneko & K.Kaneko no. 100460 (CBM-BB-35316). <1747> 南房総市, 25 m elev., on soil, 2005 Dec. 10, coll. T.Furuki no. 20995 (CBM-BB-30371). <1766> 船橋市, 20 m elev., on soil, 2009 Nov. 26, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090504 (CBM-BB-33873); 2010 Mar. 22, coll. H.Kaneko & K.Kaneko no. 090700 (CBM-BB-34062). <1795> 船橋市, 30 m elev., on soil, 2010 Apr. 24, coll. H.Kaneko, K.Kaneko & T.Furuki no. 090781 (CBM-BB-34143). <2406> 市川市, 25 m elev., on soil, 2011 June 18, coll. H.Kaneko & K.Kaneko no. 100287 (CBM-BB-35149). <2412> 市川市, 20 m elev., on soil, 2012 Mar. 28, coll. H.Kaneko & K.Kaneko no. 100554 (CBM-BB-35409). <2413> 市川市, 15 m elev., on soil, 2011 Dec. 22, coll. H.Kaneko & K.Kaneko no. 100370 (CBM-BB-35228). <2426> 市川市, 10 m elev., on soil, 2012 May 31, coll. T.Furuki,

H.Kaneko & K.Kaneko no. 100640 (CBM-BB-35493). <2436> 市川市, 15 m elev., on grave stone, 2012 May 5, coll. H.Kaneko & K.Kaneko no. 100604 (CBM-BB-35458); on soil, 2012 May 5, coll. H.Kaneko & K.Kaneko no. 100605 (CBM-BB-35459). <2437> 船橋市, 10 m elev., on soil, 2009 Dec. 30, coll. H.Kaneko & K.Kaneko no. 090583 (CBM-BB-33952). <2511> 船橋市, 15 m elev., on soil, 2009 July 20, coll. H.Kaneko & K.Kaneko no. 090361 (CBM-BB-33730). <2542> 船橋市, 20 m elev., on soil, 2009 Nov. 23, coll. H.Kaneko & K.Kaneko no. 090481 (CBM-BB-33850). <2553> 船橋市, 20 m elev., on soil, 2009 Nov. 12, coll. H.Kaneko & K.Kaneko no. 090434 (CBM-BB-33803). <2572> 習志野市, 20 m elev., on soil, 2008 July 2, coll. K.Kaneko no. 080323 (CBM-BB-31167). <2573> 習志野市, 25 m elev., on soil, 2008 Nov. 21, coll. K.Kaneko no. 080672 (CBM-BB-31516). <2580> 習志野市, 5 m elev., on soil, 2008 Sept. 18, coll. H.Kaneko no. 080467 (CBM-BB-31311). <2614> 佐倉市, 25 m elev., on soil, 1997 Nov. 28, coll. T.Furuki no. 14587 (CBM-BB-24858). <2637> 佐倉市, 30 m elev., on soil, 2018 Dec. 21, coll. T.Furuki no. 25146 (CBM-BB-41585). <2638> 佐倉市, 20 m elev., on soil, 1997 Sept. 10, coll. T.Furuki no. 13876 (CBM-BB-24823). <2791> 佐倉市, 30 m elev., on soil, 1999 Sept. 9, coll. T.Furuki no. 16011 (CBM-BB-24923). <3008> 銚子市, 30 m elev., on soil, 1989 Sept. 29, coll. T.Furuki no. 9393 (CBM-BB-13583). <3036> 旭市, 10 m elev., on clay, Aug. 1992, coll. T.Nakamura no. 13605 (CBM-BB-17799); Aug. 1992, coll. T.Nakamura no. 14000 (CBM-BB-17805). <3302> 習志野市, 2 m elev., on soil, 2008 Sept. 12, coll. H.Kaneko no. 080408 (CBM-BB-31252). <3413> 四街道市, 20 m elev., on soil, 1994 Nov. 24, coll. H.Suga no. 3939 (CBM-BB-19146). <3413> 四街道市, 24 m elev., on soil, 1994 Nov. 24, coll. H.Suga no. 3900 (CBM-BB-19109). <3481> 千葉市, 15 m elev., on soil, 2019 June 19, coll. A.Watanabe no. 2019061901 (CBM-BB-41835); 20 m elev., on soil, 1990 Dec. 5, coll. T.Furuki s.n. (CBM-BB-16968); 20 m elev., 1993 Dec. 5, coll. T.Furuki s.n. (CBM-BB-15798). <3504> 八街市, 40 m elev., on soil, 2015 Nov. 5, coll. T.Hirai no. 151105-08 (CBM-BB-38487). <3693> 山武市, 2 m elev., on submerged soil, 1985 June 9, coll. T.Nakamura no. 4639 (CBM-BB-3589); 7 m elev., on sandy soil, 1994 Dec. 2, coll. H.Suga no. 3950 (CBM-BB-19236); 1994 Dec. 2, coll. H.Suga no. 3955 (CBM-BB-19241); T.Furuki no. 11809 (CBM-BB-19251); T.Furuki no. 11812 (CBM-BB-19254); coll. T.Nakamura no. 94008 (CBM-BB-19262); coll. T.Nakamura no. 94014 (CBM-BB-19268). <4038> 東金市, 15 m elev., on clay, 1990 Dec. 20, coll. H.Takamiya no. 90203 (CBM-BB-4917). <4082> 千葉市, 70 m elev., on soil, 1995 Sept. 22, coll. H.Suga no. 4223 (CBM-BB-20957); 90 m elev., on soil, 1995 Sept. 22, coll. H.Suga no. 4206 (CBM-BB-20940). <4287> 袖ヶ浦市, 5 m elev., on loam, 1996 Dec. 13, coll. T.Kawana no. 96101305 (CBM-BB-22643); 1996 Dec. 13, coll. T.Kawana no. 96101310 (CBM-BB-22648). <4299> 袖ヶ浦市, 30 m elev., on soil, 1996 Sept. 16, coll. T.Kawana no. 96091619 (CBM-BB-22739). <4901> 袖ヶ浦市, 20 m elev., on loam, 1996 Dec. 13, coll. T.Kawana no. 96101336 (CBM-BB-22673). <4940> 袖ヶ浦市, 50 m elev., on soil, 1996 Aug. 8, coll. T.Furuki no. 13146 (CBM-BB-23227). <4960> 袖ヶ浦市, 40 m elev., on rock, 1996 Aug. 8, coll. T.Furuki no. 13153 (CBM-BB-23234). <4961> 袖ヶ浦市, 40 m elev., on loam, 1996 Aug. 31, coll. T.Kawana no. 96083129B (CBM-BB-22571). <5589> 君津市, 50 m elev., on boulder, 2003 Nov. 7, coll. T.Kawana no. 03110730 (CBM-BB-27781). <5790> 市原市, 250 m elev., on soil, 1991 June 5, coll. T.Furuki no. 9797 (CBM-BB-11514). <5792> 市原市, 85

m elev., on rock cliff, 2018 June 16, coll. T.Furuki no. 24851d (CBM-BB-41275); 100 m elev., on soil, 1992 Nov. 13, coll. T.Furuki no. 11261 (CBM-BB-11617). <6250> 君津市, 100 m elev., on boulder, 2003 Nov. 18, coll. T.Kawana no. 03111841 (CBM-BB-27876); 2003 Nov. 18, coll. T.Kawana no. 03111848 (CBM-BB-27883). <6251> 君津市, 150 m elev., on soil, 2002 Nov. 29, coll. T.Kawana no. 02112947 (CBM-BB-27585). <6301> 市原市, 120 m elev., on rock cliff, 1992 Dec. 18, coll. T.Furuki no. 11309 (CBM-BB-11665). <6606> 富津市, 150 m elev., on soil, 1989 June 15, coll. T.Furuki no. 8212 (CBM-BB-17570). <6616> 鋸南町, 100 m elev., on rock, 1997 Aug. 22, coll. T.Furuki no. 13836 (CBM-BB-38083); 240 m elev., on rock, 1994 Dec. 1, coll. T.Furuki no. 11796 (CBM-BB-21338); 1994 Dec. 1, coll. T.Furuki no. 11800 (CBM-BB-21342). <6700> 富津市, 100 m elev., on boulder, 1989 Apr. 20, coll. T.Furuki no. 8167 (CBM-BB-17528); 150 m elev., on rock, 1989 Apr. 20, coll. T.Furuki no. 8176 (CBM-BB-17537). <6780> 南房総市, 170 m elev., on rock, 2003 Mar. 5, coll. T.Furuki no. 18468 (CBM-BB-28166). <6901> 鴨川市, 200 m elev., on rock cliff, 1989 Apr. 13, coll. T.Furuki no. 8112 (CBM-BB-17473); on soil, 1990 Apr. 1, coll. T.Furuki no. 8581 (CBM-BB-17869). <6911> 君津市, 275 m elev., on rock cliff, 2015 Mar. 19, coll. T.Furuki no. 23839 (CBM-BB-37811). <7042> 勝浦市, 20 m elev., on tuff cliff, 1997 Mar. 13, coll. T.Furuki no. 13369 (CBM-BB-23855). <7155> 南房総市, 30 m elev., on soil, 2001 May 17, coll. T.Furuki no. 16583 (CBM-BB-25381); 70 m elev., on tuff cliff, 2001 May 17, coll. T.Furuki no. 16587 (CBM-BB-25385). <7496> 館山市, 20 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18527 (CBM-BB-28227). <7700> 南房総市, 35 m elev., on rock cliff, 2003 Mar. 6, coll. T.Furuki no. 18514 (CBM-BB-28214).

***Solenostoma virgatum* (Mitt.) Váňa & D.G.Long**

(= *Jungermannia virgata* (Mitt.) Steph.) キブリツボミゴケ

<6159> 君津市, 100 m elev., on boulder, 2003 Dec. 4, coll. T.Kawana no. 03120418 (CBM-BB-27996); 180 m elev., on boulder, 2003 June 29, coll. T.Kawana no. 03062901 (CBM-BB-27761). <6195> 富津市, 200 m elev., on rock, 1997 Mar. 26, coll. T.Furuki no. 13428 (CBM-BB-23914). <6250> 君津市, 200-300 m elev., on rock cliff, 1993 Dec. 22, coll. T.Furuki no. 11664 (CBM-BB-16909). <6258> 君津市, 100 m elev., on tufa covering rocky cliffs, 2019 Feb. 25, coll. T.Furuki no. 25237 (CBM-BB-41713); 2019 Feb. 25, coll. T.Furuki no. 25239 (CBM-BB-41715). <6260> 君津市, 150250 m elev., on rocks, 1976 Sept. 5, coll. T.Nakamura no. 1285c (CBM-BB-1535). <6268> 君津市, 140 m elev., on rock cliff, 2017 Jan. 30, coll. H.Kiguchi & T.Furuki no. 24512 (CBM-BB-39429). <6276> 君津市, 140 m elev., on rock cliff, 2016 Mar. 28, coll. T.Furuki no. 24185 (CBM-BB-38642). <6300> 市原市, 110 m elev., on rock cliff, 2004 June 10, coll. T.Furuki no. 19363 (CBM-BB-29051). <6301> 市原市, 120 m elev., on rock cliff, 1992 Dec. 18, coll. T.Furuki no. 11351 (CBM-BB-11707). <6606> 富津市, 150 m elev., on rock cliff, 1989 June 15, coll. T.Furuki no. 8244 (CBM-BB-17601). <6616> 鋸南町, 100 m elev., on rock, 1997 Aug. 22, coll. T.Furuki no. 13837 (CBM-BB-38084); 鴨川市, 80 m elev., on boulder, 1974 Aug. 22, coll. S.Asano no. 20 (CBM-BB-327). <6901> 鴨川市, 300 m elev., on rock cliff, 2000 Mar. 24, coll. T.Furuki no. 16312 (CBM-BB-25295); 250 m elev., on rock, 2005 June 14, coll. T.Furuki no. 19871 (CBM-BB-30263). <6912> 鴨川市, 150 m elev., on rock, 1987 Aug. 3, coll. H.Takamiya no. 87080 (CBM-BB-4538).

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