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Description of plants of the family documented for Micronesia with examples from Saipan collected by Herrmann Höfer and Georg Fritz.

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4. Piperaceae novae e Micronesia et Polynesia allatae.

Auctore

C. De Candolle.

Piper L.

Piper ponapense C. DC. n. sp. — Ramulis glabris; foliis modice petiolatis glabris, limbo suboblongo-ovato basi leviter inaequilatera leviter cordulato apice acute vel acutiuscule acuminato, 8-plinervio nervo centrali paullo supra basin trifido, nervis lateralibus altero latere 3, altero 2 a basi solutis quorum interni adscendentes externi subadscendentes, limbi lateribus basi aequilongis leviter inaequilatis, petiolo basi ima vaginante; stirpis masc. pedunculo glabro petiolum superante, spica subflorente limbum fere aequante, rhachi dense hirsuta, bracteae glabrae pelta rotunda centro pedicellata, staminibus 2 antheris parvis subreniformibus 4-valvatis.

Dioicus, ut videtur erectus, ramuli spiciferi circiter 4 mm crassi, in 2 mm crassis collenchyma libriforme subcontinuum, fasciculi intramedullares 4-seriati, canalis lysigenus unicus centralis. Limbi in sicco subrigide membranacei epunctulati, superi circiter 40 cm longi 4—4,5 cm lati, subsequentes conformes usque ad 42 cm longi et 6 cm lati. Petioli superi 4 cm, pedunculi 2,5—3,5 cm longi. Spicae subflorentes 9 cm longae, 4 mm crassae, bracteae pelta 0,75 mm diam.

Ost-Karolinen: Ponape (LEDERMANN n. 43 429 a).

Peperomia R. et Pav.

Peperomia pitcairnensis (Lauterb.) C. DC. n. sp. — Caule ramisque glabris; foliis alternis oppositisve glabris, breviter petiolatis, limbo obovato basi acuto apice rotundato, 7-nervio; pedunculis axillaribus terminalibusque glabris petiolos pluries superantibus, spicis glabris folia paullo superantibus densifloris, bracteae pelta rotunda centro subsessili, bacca globosa.

Caulis erectus, ramuli spiciferi cum spicis terminalibus circiter 8 cm longi. Limbi in sicco membranacei et virescentes, 2,5—3 cm longi et usque ad 4,2—4,5 cm lati. Petioli 6 mm, pedunculi 45 mm longi. Spicae bacciferae circiter 4 cm longae et fere 2 mm crassae, bracteae pelta 0,5 mm diam., bacca maturitate rhachis processu conoideo sustentata, in sicco fusca glandulis subasperata 0,75 mm diam., summo apice stigmatidis reliquis munita.

Polynesien: Pitcairn ins. (Miss YUNG n. 466).

Peperomia Volkensii C. DC. n. sp. — Caule glabro; foliis oppositis vel rarius alternis modice petiolatis glabris, limbo elliptico-lanceolato basi acuto apice obtusiusculo, 5-nervio; pedunculis glabris axillaribus terminalibusque petiolos fere aequantibus, spicis glabris limbos fere aequantibus filiformibus subdensifloris, bractee pelta orbiculari centro sessili, antheris rotundatis quam filamenta oblonga brevioribus, ovario rhachi impresso subgloboso summo apice stigmatifero, stigmatate orbiculari dense piloso, bacca globosa inferne rhachi impressa, glandula subasperata.

Caulis glaber usque ad 3 mm crassus inferne e nodis radicans. Limbi in sicco membranacei pallidi epunctulati, superi circiter 3 cm longi et 4,9 cm lati, subsequentes magis elliptici 3,5 cm longi et 2,5 cm lati. Petioli superi 5 mm longi. Spicae usque ad 3 cm longae et 4 mm crassae, bacca 0,75 mm crassa in sicco flavicans.

Ost-Karolinen: Kusaie bei Lele, auf Mauern (VOLKENS n. 2. — Blühend am 9. Okt. 1899!); Marshall-Inseln: Ebon: Boston-Insel (FINSCH n. 4. — Blühend am 12. Mai 1880!).

Peperomia Kraemeri C. DC. n. sp. — Caule ramulisque glabris; foliis alternis brevissime petiolatis, limbo ovato basi ima acuto apice obtuso supra prope basin et superne in margine puberulo subtus glabro, 5-nervio, petiolo glabro; pedunculis axillaribus terminalibusque glabris petiolos multo superantibus, spicis glabris densifloris, bractee pelta orbiculari centro pedicellata, antheris ellipticis quam filamenta paulo brevioribus, ovario emerso obovato paulo infra apicem oblique stigmatifero, stigmatate carnoso glabro, bacca globosa glandulis subasperata.

Caulis decumbens e nodis radicans, 2 mm crassus, ramuli erecti circiter 7 cm longi, 4 mm crassi. Limbi in sicco membranacei 17—19 mm longi 12 mm lati. Petioli 2 mm, pedunculi 13 mm longi, bractee pelta 0,5 mm diam., bacca 0,5 mm crassa.

West-Karolinen: Palau-Inseln, Korrör (KRAEMER).

Peperomia breviramula C. DC. n. sp. — Ramulis hirsutis; foliis alternis breviter petiolatis, limbo ovato-elliptico basi acuto subacutove apice obtuso, 3-nervio, utrinque glabro margine dense ciliato, petiolo hirsuto; pedunculis oppositifoliis hirtellis petiolos superantibus, apicis glabris limbos aequantibus vel paulo superantibus, bractea pelta rotunda centro breviter pedicellata, ovario emerso ovato summo apice stigmatifero, stigmatate pilosulo, bacca globosa glandulis subasperata, maturitate rhachis processu conico sustentata.

Epiphyta, rami a caule inferne e nodis radicante 4 mm crasso surgentes circiter 8 cm longi breviter ramulosi, ramuli 4—5 cm longi, fere 0,75 mm crassi. Limbi in sicco membranacei 20—22 mm longi, 10—15 mm lati creberrime nervulosi, nervi nervulique saepe in sicco subtus albicantes. Petioli circiter 5 mm, pedunculi usque ad 9 mm longi, spicae circiter 15 mm longae et 0,5 mm crassae, bractee pelta 0,5 mm, baccaque 0,5 mm diam.

Ost-Karolinen: Ponape, Paue, Montesanto, dichter Buschwald bei 7—800 m ü. M. Hellgrün, Kolben gelbbraun (LEDERMANN n. 13739. — Blühend 14. Dez. 1943!).

Peperomia yapensis C. DC. n. sp. — Omnino glabra; foliis alternis modice petiolatis, limbo rotundato-ovata basi cordato apice breviter et obtusiuscule acuminato, 7-nervio; pedunculis terminalibus filiformibus petiolos subaequantibus, spicis limbos fere aequantibus subdensifloris, bractee pelta longitudinaliter elliptica centro pedicellata, antheris rotundato-ellipticis quam filamenta adulta brevioribus, ovario emerso summo apice stigmatifero stigmate papilloso, bacca obovata glandulis subasperata.

Herba muscicola, radix fibrosa, caulis erectus ramosus circiter 13 cm altus, in sicco complanatus et usque ad 2 mm crassus. Limbi in sicco tenuiter membranacei, usque ad 3 cm longi latique, creberrime nervulosi. Petioli 9 mm longi. Spicae usque ad 0,5 mm crassae in vivo virescentes, bacca 4 mm paullo brevior. — Species statura majore pedunculis et spicis multo brevioribus limbisque basi cordatis a *P. gemello* discrepans.

Karolinen: Yap, in dem Moospolster am Fuße einer Kokospalme (G. VOLKENS n. 342. — Blühend am 9. Jan. 1900!).

Peperomia Gibbonsii C. DC. n. sp. — Caule ramisque glabris; foliis alternis vel in apice ramulorum oppositis modice petiolatis glabris, limbo subobovato-lanceolato basi acuto apice obtusiuscule et breviter attenuato, 5-nervio; pedunculis axillaribus terminalibusque in apice ramulorum confertis glabris petiolos superantibus, spicis limbos subduplo superantibus glabris, densifloris, bractee pelta rotunda margine obtuse crenata, antheris minutis rotundatis, ovario emerso ovato summo apice stigmatifero stigmate bilobulato lobis antero-posticis rotundatis carnosiss, bacca globosa sessili glandulis subasperata.

Herba parva saxicola, caulis fere 1,75 mm crassus in sicco pallidus, ramuli spiciferi 7—8 cm longi, 4 mm crassi. Limbi in sicco membranacei minute pellucido-punctulati, crebre nervulosi, usque ad 20 mm longi et 15 mm lati. Petioli circiter 5 mm, pedunculi usque ad 10 mm longi. Spicae 35 mm longae, 4 mm crassae, bractee pelta 0,5 mm diam., flores in vivo violacei, bacca 0,5 mm diam.

Marshall-Inseln: Ailinlaplap, in der Mitte der Insel; einheim. Name: Rapisrage; auf steinigem Basaltboden, im Schatten von Kokospalmen; kleine Kräuter mit violetten Blüten (CHARLEY GIBBONS n. 1072. — Blühend im Februar 1912!).

Peperomia ponapensis C. DC. n. sp. — Caule ramisque glabris; foliis alternis modice petiolatis glabris, limbo obovato-lanceolato basi acuto apice rotundato vel brevissime et obtuse attenuato, 5-nervio; pedunculis glabris axillaribus terminalibusque petiolos multo superantibus, spicis glabris limbos paullo superantibus densifloris, bractee pelta rotunda centro subsessili, antheris ellipticis post dehiscentiam quam filamenta exserta brevioribus, ovario emerso ovato summo apice stigmatifero, stigmate globoso apice piloso, bacca ovato-globosa glandulis subasperata, maturitate rhachis processu conoideo sustentata.

Herba saxicola, 30—40 m alta, caulis inferne prostratus e nodis radicans usque ad 3 mm crassus. Limbi in vivo supra nitente subtus pallide virentes, in sicco membranacei 4—5 cm longi et 2—2,3 cm lati. Petioli usque ad 9 mm, pedunculi usque ad

15 mm longi. Spicae in vivo albae, usque ad 6 cm longae, bracteae pelta 0,5 mm 0,5 mm diam., bacca fere 0,5 mm longa.

Ost-Karolinen: Ponape, Metalanim, Nan Mabol, Kalau-Buschwald auf den Ruinen der alten Stadt, auf den Basaltblöcken der Ruine; Blätter glänzendgrün mit blaßgrüner Unterseite; Kolben grünlichweiß (LEDERMANN n. 13914. — Blühend am 8. Jan. 1914!).

Peperomia palauensis C. DC. n. sp. — Caule dense hirtello; foliis superis alternis breviter, subsequentibus oppositis sat longe petiolatis, limbo elliptico-lanceolato basi et apice acuto, 5-nervio, supra minute subtus paulo longius hirtello, superne ciliato, petiolo dense hirtello; pedunculo terminali hirtello petiolum superante, spica quam limbus fere triplo longiore glabra densiflora, bracteae pelta rotunda centro pedicellata, antheris ellipticis, ovario emerso obovato summo apice stigmatifero, stigmatate carnosopapillosulo, bacca globosa glandulis subasperata.

Herba rupestris, caulis inferne repens e nodis radicans superne erectus, usque ad 2 mm crassus, in sicco pallide virescens. Limbi in sicco membranacei pellucido-punctulati, subtus saepe ad nervos centrales albovittati, superi alterni 1,7—2 cm longi, 1,5—1,9 cm lati, subsequentes oppositi 3 cm longi, 1,5 cm lati. Petioli alterni 5 mm, oppositi subsuperi 7 mm, pedunculi 11 mm longi. Spicae 6,5 cm longae, 1 mm crassae, bracteae pelta 0,5 mm diam., bacca sessilis 0,5 mm diam. paulo superans, sine pseudocupula.

West-Karolinen. Palau-Inseln: Korrör, bei 10—100 m ü. M., auf Kalkfelsen (LEDERMANN n. 14102. — Blühend am 7. Febr. 1914!).

Peperomia Hoeferi C. DC. n. sp. — Caule glabro; foliis oppositis vel supremis alternis modice petiolatis glabris, limbo elliptico-lanceolato basi et apice acuto, 5-nervio; pedunculis terminalibus glabris quam petioli brevioribus, spicis glabris quam limbi brevioribus densifloris, bracteae pelta rotunda centro pedicellata, antheris ellipticis filamenta fere aequantibus, ovario emerso obovato summo apice complanato et stigmatifero, stigmatate glabro.

Herba rupestris, caulis a basi procumbente e nodis radicante erectus, 1 mm crassus. Limbi in sicco membranacei parce pellucido-punctulati, 2,5—3,5 cm longi et 1,3—2,2 cm lati. Petioli 0,5—1 cm, pedunculi circiter 7 mm longi. Spicae usque ad 2 cm longae et 1 mm crassae, bracteae pelta 0,5 mm diam.

Marianen: Saipan, auf Kalkfelsen; einheim. Name: Potpotpot (HÖFER n. 38. — Blühend im Februar 1913!).

Peperomia saipana C. DC. n. sp. — Caule glabro; foliis alternis modice petiolatis, limbo elliptico-lanceolato basi acuto apice obtusiusculo, 5-nervio, utrinque glabro juniore margine ciliato, petiolo glabro; pedunculis terminalibus glabris petiolos aequantibus, spicis glabris quam limbi paulo brevioribus filiformibus densifloris, bracteae pelta orbiculari centro breviter pedicellata, antheris rotundatis filamenta fere aequantibus, ovario emerso globoso summo apice stigmatifero, stigmatate glabro, bacca globosa glandulis subasperata.

Caulis fere 4 mm crassus. Limbi 3,3 cm longi et 2 cm lati in sicco membranacei et minute pellucido-punctulati. Petioli 5 mm longi. Spicae 2 cm longae.

Marianen: Saipan. Einheim. Name: Popudpud, medizinisch bei Verletzung der Zunge und bei Kopfweh verwandt (FRITZ).

Peperomia nativitatis C. DC. n. sp. — Omnino glabra; foliis alternis et oppositis modice petiolatis, limbo elliptico-lanceolato basi et apice acuto, 5-nervio; pedunculis terminalibus axillaribusque petiolos paullo superantibus, spicis limbos superantibus sublaxifloris, bractea pelta orbiculari centro pedicellata flavide punctulata, antheris ellipticis filamenta tenuia transverse fere aequantibus, ovario emerso obovato paullulo infra apicem oblique et inconspicue stigmatifero, stigmatate minuto glabro, bacca globosa apice mucronulata, glandulis subasperata, maturitate rhachis processu conoideo sustentata.

Herba inferne prostrata et radicans, ad rupes et truncos crescens, caules usque ad 25 cm longi et 3 mm crassi. Folia infera opposita, supera alterna. Limbi in sicco membranacei pellucido-punctulati, 5—5,5 cm longi, 1,9—2,5 cm lati. Petioli circiter 7 mm, pedunculi 40 mm longi. Spicae maturae usque ad 7 cm longae et 0,75 mm crassae, bractea pelta paullo ultra 0,25 mm diam., bacca vix 0,75 mm crassa.

Polynesien: Christmas-Insel (H. M. RIDLEY et E. J. LISTER in herb. Calcutta!).