

DIAGNOSES OF NEW SPECIES OF CLADOCARPA (CUCURBITACEAE)
HAWAIIAN PLANT STUDIES 142

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Unless otherwise located, the type specimens are in the
Bishop Museum, Honolulu, Hawaii

Cladocarpa capitata sp. nov.

Laminis 11-13.5 cm longis reniformibus vadosiore
palmatim lobatis, floribus masculis cum lobis corollae
1.2 mm longis, floribus femineis cum lobis corollae 1.5
mm longis ovatis, nucibus cum corporibus 5 mm longis
ovoideis. Typus: Hawaii I., Puu Anahulu, D. Herbst
5,393,

C. discoidea sp. nov.

Laminis 7-8.7 cm longis cordatis suborbicularibus
vado^siore palmatim lobatis, floribus masculis in gemma
2 mm diametro, nucibus 7-8 mm longis corporibus 6-7 mm
longis obovoideis puberulis seminibus 4.2 mm longis ellip-
soideis. Typus: Maui I., O. Degener 9,893 (NY).

C. Harrisonae sp. nov.

Laminis 2.2-2.5 cm diametro cordate suborbicularibus
1/3 lobatis, floribus masculis cum lobis corollae 2 mm
longis ovati-deltoides, nucibus cum corporibus 7-8
mm longis ellipsoideis puberulis, seminibus 2.9-4 mm
longis late ellipsoideis. Typus: Molokai I., Kalaupapa,
B. Harrison.

C. Herbstii sp. nov.

laminis 8-10.5 cm longis cordate suborbicularibus
1/4-lobatis, floribus masculis cum lobis corollae 2.5
mm longis ovatis acutis, floribus femineis cum lobis
corollae 1.3-1.5 mm longis ovatis subacutis, nucibus
7-8.5 mm longis ovoideis acutis puberulis, seminibus
4.5 mm longis ellipsoideis. Typus: Kauai, Barking Sands,
D. Herbst 5,691.

C. Julesii sp. nov.

Laminis 5-7 cm diametro suborbicularibus non lob-
atis, floribus masculis cum lobis corollae 2-2.5 mm lon-
gis ovatis subacutis, floribus femineis cum lobis
corollae 0.6-0.7 mm longis ovatis subacutis. Typus:
Kauai I., J. Remy 542. (P).

C. kawelaensis sp. nov.

Lamnninis 3.7 cm longis cordate suborbicularibus
vadosiore lobatis, floribus masculis cum lobis cor-
ollae 1.3-1.5 mm longis ovatis, floribus femineis cum
lobis corollae 1.2 mm longis ovatis, nucibus 7-7.5 mm
diametro hemisphaericis puberulis, seminibus 4 mm
longis suborbicularibus. Typus: Molokai I., Kawela,

C. lanaiensis sp. nov.

Laminis 6-11 cm longis cordate suborbicularibus vadosiore lobatis, floribus masculis cum lobis corollae 2 mm longis deltoideis, floribus femineis cum lobis corollae 0.7 mm longis ovatis acutis, nucibus 5-6 mm longis obovoideis puberulis, seminibus 2 mm longis late ellipsoideis. Typus: Lanai I., Maunalei, J. D. Jacobi 1,979.

C. lehuaensis sp. nov.

Laminis 3.2-8 cm latis late cordatis minime lobatis, floribus masculis cum lobis corollae 1.7 mm longis late ovatis subacutis, floribus femineis cum lobis corollae 0.8 mm longis ovatis acutis, nucibus 7 mm diametro late ellipsoideis pilosulis, seminibus 4 mm longis ellipsoideis. Typus: Lehua I., W. King 3,017 (HAW).

C. Munroi sp. nov.

Laminis 9-16 mm diametro suborbicularibus 1/3-3/8-lobatis, floribus masculis cum lobis corollae 4-4.4 mm longis ovatis, floribus femineis cum lobis corollae 1-1.2 mm longis ovatis, nucibus 9 mm longis lanceoloideis puberulis. Typus: Lanai I., Kaena, G. C. Munro 87.

C. pauciramosa sp. nov.

Laminis 7-10 cm diametro cordate suborbicularibus 1/4-2/5-lobatis, floribus masculis cum lobis corollae 2 mm longis ovatis acutis, floribus femineis cum lobis corollae 1.5 mm longis lanceolatis, nucibus 5.5-6 mm longis lanceoloideis puberulis, seminibus 4 mm longis ellipsoideis. Typus: Kauai I., Polihale, C. Christensen 326.

C. umbellata sp. nov.

Laminis 4-7.2 cm longis late hastatis 1/4-lobatis, floribus masculis cum lobis corollae 2-2.5 mm longis ovatis subacutis, floribus femineis cum lobis corollae 1.5 mm longis late ovatis subacutis, nucibus 7-8 mm longis late obovoideis pilosulis, seminibus 3.8 mm longis late ellipsoideis. Typus: Hawaii I., Huehue, W. H. Hatheway 509.

C. waimeaensis sp. nov.

Laminis 7-11.5 cm diametro suborbicularibus 1/3-2/3-lobatis, floribus masculis cum lobis corollae 2.7-3 mm longis ovatis subacutis, floribus femineis cum lobis corollae 1.8-2 mm longis ovatis, nucibus 6 mm longis lanceoloideis glabris, seminibus 4 mm longis ellipsoideis. Typus: Hawaii I., Waimea, O. Degener 17,416 (NY).

DIAGNOSES OF NEW SPECIES OF SICYOS (CUCURBITACEAE)

HAWAIIAN PLANT STUDIES 143

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Included are diagnoses of various new species, subspecies, and varieties of Hawaiian Sicyos (Cucurbitaceae). Unless otherwise specified, the types are in the Bishop Museum, Honolulu.

Sicyos erostratus, var. erostratus sp. & var. nov.

Laminis 1/8-lobatis, paniculis masculis cum pedicellis 2-3 mm longis, gemmis puberulis, lobis perianthium 1.8 mm longis ovatis acutis, floribus femineis cum lobis 0.5-0.6 mm longis ellipticis acutis, utriculis 3-3.4 mm longis ovoideis erostratis, seminibus 1.8-2 mm longis late ellipsoideis. Typus: Molokai I., Onini, L. E. Bishop 1,714.

S. erostratus St. John, var. Herbstii var. nov.

Laminis 6-11 cm longis 1/7-1/9-lobatis, paniculis masculis cum pedicellis 3-7 mm longis, lobis perianthium 1.8-2 mm longis ovatis subacutis glandulose puberulis, floribus femineis cum lobis 0.8-0.9 mm longis ovatis subacutis glandulose puberulis, utriculis 5 mm longis ellipsoideis hirsutis, seminibus 2 mm longis ellipsoideis. Typus: Molokai I., Kalamalua, D. Herbst 2,944.

S. erostratus St. John, var. kealiaensis var. nov.

Laminis 9.5-12 cm longis, paniculis masculis cum pedicellis 2-3.5 mm longis glandulose hirsutulis, lobis paerianthium 1.4 mm longis late deltoideis, floribus femineis cum 3 lobis 0.4 mm longis hemisphaericis, utriculis 3-4 mm longis obovoideis parte libera capitate glandulose hirsuta, seminibus 2.3-2.6 mm longis obovateis. Typus: Oahu I., Kealia Gulch, W. C. Gagne 671.

S. erostratus St. John, var. paucipilosus var. nov.

Laminis 12-13 cm longis 2/3-lobatis, paniculis masculis cum gemmis pauce puberulis, lobis perianthium 1.5 mm longis deltoidei-ovatis, floribue femineis cum lobis perianthium 0.7-0.9 mm longis ellipticis acutis, utriculis cum corpore 2.2-2.6 mm longo ellipsoideo, seminibus 2.3 mm longis late ellipsoideis. Typus: Molokai I., Onini, L. E. Bishop 1,713.

S. Hillebrandii St. John, var. Anunu var. nov.

Nucibus 11-13 mm longis parte libera corporis puberulis, seminibus 3.6 mm longis. Typus: Hawaii I., Kapapala, C. N. Forbes 400.H.

S. Hillebrandii St. John, var. Douglasii var. nov.

Nucibus 10-13 mm longis parte libera ad centrum pilosula parte supera puberula, seminibus 3.2-3.5 mm longis. Typus: Hawaii I., N. slope Mauna Kea,

O. Degener & Greenwell 21,364.

S. Hillebrandii St. John, var. *lanaiensis* var. nov.

Nucibus 11-12 mm longis late deltoideo-obovoideis ad circulum aequinoctialem hirsutulum ad apicem puberulum, rostro 2.5-4 mm longo ad basim puberulo, seminibus 3.5 mm longo. Typus: Lanai I., Kamo, G. C. Munro 417.

S. microcarpus H. Mann, subsp *microcarpus*, var.

Forbesii var. nov.

Laminis 2.8-4.5 cm longis 1/5-2/3-lobatis, paniculis masculis cum pedicellis 1-2 mm longis hirsutulis, lobis perianthium 1.3-1.8 mm longis ovatis subacutis glandulose puberulis, floribus femineis cum 3 lobis corollae 0.5 mm longis ovatis, glandulose puberulis, utriculis 4.5-6.5 mm longis corpore anguste oblanceoloideis dimidio libero puberulo rostro 1.5-1.7 mm longo puberulo, seminibus 1.7-1.8 mm longis ellipsoideis. Typus: Maui I., Maunahooma, C. N. Forbes 11.M.

S. microcarpus H. Mann, supsp. *microcarpus*, var.

kalaupapaensis var. nov.

Laminis 4.5-8.2 cm longis 1/6-1/9-lobatis, paniculis masculis cum pedicellis 4-5 mm longis puberulis, lobis corollae 2.5-2.7 mm longis late lanceolatis, floribus femineis cum 4 lobis corollae 0.8 mm longis ellipticis acutis puberulis, utriculis 2-2.5 mm longis ellipticis supra puberulis rostro 0.5 mm longo, seminibus 1.7 mm longis late ellipsoideis. Typus: Molokai I., Kalaupapa, J. F. Rock 14,061.

S. microcarpus H. Mann, subsp. *microcarpus*, var. *kilaueaensis* var. nov.

Laminis 4-6.5 cm longis 2/5-lobatis, paniculis masculis cum pedicellis 2-3.5 mm longis hirsutulis, utriculis 4.5 mm longis obovoideis viscidis parte supera hirsutula rostro 1-1.2 mm longoglabro. Typus: Hawaii I., Apua, G. O. Farerlund 544.

S. microcarpus H. Mann, subsp. *microcarpus*, var. *paneensis* var. nov.

Laminis 12.4-18.5 cm longis 1/11-lobatis, paniculis masculis cum pedicellis 2-3.5 mm longis, lobis corollae 2-2.3 mm longis lancei-ovatis, floribus femineis cum 5 lobis perianthium 0.7 mm longis ovatis, utriculis 3-3.3 mm longis late obovoideis dimidio supera puberulo rostro 0.3 mm longo puberulo, seminibus 2.5 mm longis ellipsoideis. Typus: Oahu I., Kamokuiki, O. Degener 18,035. (NY).

S. microcarpus H. Mann, subsp. *microcarpus*, var. *pohakeaensis* var. nov.

Laminis 7 cm diametro 1/5-1/6-lobatis, paniculis masculis cum pedicellis 1-3 mm longis puberulis, lobis perianthium 2-2.5 mm longis ovatis, floribus femineis cum 3 lobis corollae 0.8 mm longis ellipticis, utriculis 5.5-6 mm longis oblanceoloideis parte supera puberula rostro 1.5-1.6 mm longo puberulo, semin-

ibus 2.3-2.4 mm longis ellipsoideis. Typus: Maui I., Pohakea, O. Degener 18,400 (NY).

S. microcarpus H. Mann, subsp. *microcarpus*, var. *Woolfordii* var. nov.

Laminis 5-9 cm longis 1/3-1/2-lobatis, paniculis masculis cum pedicellis 3-5 mm longis puberulis, lobis perianthium 2.5-3 mm longis lanceolatis obtusis, floribus femineus cum 5 lobis corollae 0.9-1.1 mm longis lanceolatis subacutis, utriculis 7-8 mm longis obovoideis parte supera puberula, rostro 3-4 mm longo puberulo, seminibus 2.5 mm longis late ellipsoideis. Typus: Oahu I., March 11, 1957, H. A. Woolford.

S. microcarpus H. Mann, subsp. *kanepuuensis* subsp. nov.

Laminis 3.5-7 cm longis 2/3-1/8-lobatis, paniculis masculis cum pedicellis 1-3 mm longis puberulis, 4 lobis perianthium 1.4 mm longis ovati-suborbicularibus acutis, floribus femineis cum 4 lobis corollae 0.4 mm longis ellipticis, utriculis 5.5 mm longis late rhombicis parte supera glandulose puberula rostro 0.5-0.8 mm longo puberulo, seminibus 2.5 mm longis elliptici-discoideis. Typus: Lanai I., Kanepuu, G. C. Munro 10.

S. microcarpus H. Mann, subsp. *lanaiensis*, var. *lanaiensis* subsp. & var. nov.

Laminis 5-7.5 cm longis cordatis 1/7-1/10-lobatis, paniculis masculis cum pedicellis 2-4 mm longis hirsutis, lobis perianthium 2-2.3 mm longis ovatis subacutis, floribus femineis cum 4 lobis 0.7 mm longis ellipticis acutis, utriculis 4-4.6 mm longis late obovoideis tertia supera catenulate hirsuta rostro 0.5-1 mm longo, seminibus 2 mm longis ellipsoideis. Typus: Lanai I., Kalulu, G. C. Munro 535.

S. microcarpus H. Mann, subsp. *lanaiensis* St. John, var. *kealiaensis* var. nov.

Lamnins 9.5-12 cm longis orbiculari-reniformibus sublobatis, inflorescentia mascula cum pedicellis 2-2.5 mm longis glandulose hirsutulis, lobis perianthium 1.4 mm longis late deltoideis obtusis, floribus femineis cum 3 lobis 0.7 mm longis hemisphaericis, utriculis 3-4 mm longis obovoideis parte libere glandulose catenate hirsuta, seminibus 2.3-2.6 mm longis obovoideis. Typus: Oahu I., Kealia, W. C. Gagne 671.

S. microcarpus H. Mann, subsp. *lanaiensis* St. John, var. *kamoensis* var. nov.

Laminis 8-15 cm longis reniformibus fere elobatis, floribus masculis cum lobis perianthium 1.3 mm longis late ovatis, floribus femineis cum 4 lobis corollae 1.5 mm longis angustiore ellipticis obtusis, utriculis 4.5-5.2 mm longis late ellipsoideis dimidio supero

glandulose catenulate hirsutulo, rostro 0.3-1 mm longo, seminibus 2.5 mm longis late ellipsoideis. Typus: Lanai I., Komoa, G. C. Munro 418.

S. microcarpus H. Mann, subsp. *lanaiensis* St. John, var. *koeleensis* var. nov.

Laminis 6-19 cm diametro suborbicularibus 1/13-1/23-lobatis, paniculis masculis cum pedicellis 2-3 mm longis hirsutulis, lobis perianthium 2-2.2 mm longis ellipticis subacutis, floribus femineis cum 5 lobis 1.3 mm longis ellipticis subacutis, utriculis 5 mm longis ellipticis rhomboideis parte supera libera catenulate hirsutula, seminibus 1.5-1.7 mm longis late ellipsoideis. Typus: Lanai I., Koele, C. N. Forbes 95.L.

S. microcarpus H. Mann, subsp. *lanaiensis* St. John, var. *oniniensis* var. nov.

Laminis 6-9 cm longis cordatis 1/5-1/3-lobatis, paniculis masculis cum pedicellis 1-2 mm longis, floribus cum 4 lobis perianthium 1.2 mm longis ovatis, floribus femineis cum 4 lobis corollae 0.8 mm longis ovatis, utriculis 4 mm longis lanceoloideis in medio hirsutis. Typus: Molokai I., Onini Gulch, L. E. Bishop 1,690.

S. microcarpus H. Mann, subsp. *lanaiensis* St. John, var. *trilobata* var. nov.

Laminis 3-5 cm longis cordate suborbicularibus 1/3-1/2-lobatis, paniculis masculis cum pedicellis 3-8 mm longis glandulose puberulis, floribus cum lobis corollae 1.8 mm longis ovate deltoideis acutis, floribus femineis cum 3 lobis corollae 0.6-0.7 mm longis ovatis subacutis, utriculis 3.6-4 mm longis ovoideis dimidio supero hirsuto, rostro 0.7-1 mm longo, seminibus 2.5 mm longis ellipsoideis. Typus: Molokai I., Mokolelau, W. C. Gagne 676.

S. microcarpus H. Mann, subsp. & var. *laysanensis* comb. nov.

S. laysanensis St. John, Pacif. Sci. 24: 440-443, fig. 1, 1970.

S. microcarpus H. Mann, subsp. *laysanensis* (St. John) St. John, var. *ewaensis* var. nov.

Laminis 3.5-6.5 cm longis suborbicularibus 1/9-lobatis, paniculis masculis cum pedicellis 2-3.5 mm longis, lobis perianthium 1.5 mm longis anguste ellipticis, floribus femineis cum lobis corollae 0.8-0.9 mm longis ellipticis puberulis, utriculis 6-7 mm longis late obovoideis puberulis, rostro 1.5-2.5 mm longo, seminibus 2-2.5 mm longis ellipsoideis. Typus: Oahu I., K. M. Nagata 1,656.

S. microcarpus H. Mann, subsp. *laysanensis* (St. John)
St. John, var. *haleakalaensis* var. nov.

Laminis 3.5-8 cm longis reniformibus 1/6-1/5-lobatis infra nervis puberulis, paniculis masculis cum pedicellis 1.5-2.5 mm longis glandulose puberulis, gemma caitate glandulose puberula, utriculis 5.5-7 mm longis lanceoloideis, seminibus 2-2.3 mm longis late ellipsoideis. Typus: Maui I., Waiopai, C. N. Forbes 1,851.M.

S. microcarpus H. Mann, subsp. *laysanensis* (St. John)
St. John, var. *kauensis* var. nov.

Laminis 3-5.5 cm diametro suborbicularibus 1/4-lobatis infra hispidulis, paniculis masculis cum pedicellis 1-2 mm longis puberulis, lobis perianthium 3.5-4 mm longis ovatis acutis, floribus femineis cum 4 lobis corollae 1 mm longis ellipticis acutis, utriculis 6-6.3 mm longis oblanceoloideis dimidio supero catenulate pilosulo rostro 1.5-2 mm longo. Typus: Hawaii I., Kau, J. F. Rock.

S. microcarpus H. Mann, subsp. *laysanensis* (St. John)
St. John, var. *kolaoensis* var. nov.

Laminis 6-12 cm diametro suborbicularibus 1/6-1/8-lobatis infra hispidulis, paniculis masculis cum pedicellis 1-3 mm longis puberulis, gemma puberula, lobis perianthium 1.8 mm longis ovatis acutis, floribus femineis cum 4 lobis corollae 0.6-0.7 mm longis anguste ovatis, utriculis 7-7.3 mm longis oblanceoloideis pate supera puberula, rostro 1.6-2 mm longo. Typus: Kauai I., Poipu, C. H. Lamoureus 2,346.

S. microcarpus H. Mann, subsp. *laysanensis* (St. John)
St. John, var. *Meeboldii* var. nov.

Laminis 3-6 cm lati~~s~~reniformibus 1/5-1/6-lobatis infra hispidulis~~s~~ paniculis masculis cum pedicellis 2-3 mm longis glandulose puberulis, lobis perianthium 2-2.5 mm longis ovatis subacutis, utriculis 6-7.2 mm longis ob-ovoideis tertia apicali in basi puberula, rostro 1-1.5 mm longo. Typus: Hawaii I., Huehue, G. L. Webster 1,537.

S. microcarpus H. Mann, subsp. *laysanensis* (St. John)
St. John, var. *obovoideis* var. nov.

Laminis 4-8.2 cm longis ovatis 1/5-7/8-lobatis infra hirsutulis, paniculis masculis puberulis, utriculis 6-7.2 mm longis oblanceoloideis parte supera puberula, seminibus 3-3.3 mm longis ellipsoideis. Typus: Maui I., H. F. Clay.

S. microcarpus H. Mann, subsp. *puberulus* subsp. nov.

Laminis 6.3-8 cm diametro suborbicularibus 1/8-1/11-lobatis infra puberulis, paniculis masculis cum pedicellis 2-3 mm longis glandulose puberulis, gemmis puberulis, lobis perianthium 2.8-3.2 mm longis ovatis floribus femineis cum 4 lobis corollae 1.5-1.7 mm longis lanceolatis subobtusis, utriculis 7-7.5 mm

longis obcvoideis parte libera glandulose puberula, seminibus 2.7-3 mm longis ellipsoideis. Typus: Oahu I., Waianae, O. Degener 18,391 (US).

S. niger sp. nov.

Laminis 3.5-12 cm diametro cordate suborbicularibus 1/6-1/4-lobatis infra puberulis, paniculis masculis cum pedicellis 2-3 mm longis puberulis, gemmis puberulis, lobis perianthium 2.1-2.4 mm longis ellipticis, utriculis 6-7.5 mm longis oblanceoloides glabris, rostro 1.5-2 mm longo, seminibus 2-2.2 mm longis late ellipsoideis. Typus: Maui I., Nuu, H. St. John 26,771.

S. waimanaloensis sp. nov.

Laminis 4-9 cm diametro suborbicularibus infra hispidulis, paniculis masculis cum pedicellis 1-2 mm longis, lobis perianthium 2.2-2.5 mm longis ovatis glabris, floribus femineis cum lobis corollae 1.5-2 mm longis ovatis, utriculis 7-9 mm longis lanceoloideis glabris, rostro 2.5-3 mm longo, seminibus 3.8 mm longis ovati-ellipsoideis. Typus: Oahu I., Waimanalo, O. Degener 17,416 (US).



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