

GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

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1847

Wed 92

Alismaceae

1847

Flor. Brasil. fasc. 7-9 p. 800.

M. Seubert

perig. inferum 6 partit. laciniis biseriatis;
capitulis distinctis 1-2 spermis; seminibus satum
ventrali affixis exalbumosis.

Herba helobina scapigeram petiolis
basi vaginantiibus, lamina parallelinervis
vel caninervis vel plane deficiente.

fl. hermaphroditica vel sexu distincti
stam. tot quot perigonii plerumque et ante
ea posita vel plerum
ovarii 3-6 vel plerum
ovula e sutura ventrali basi orientia
antrona vel campyletrona

floris spiratis vel ventricillatis, ventraliter
spiratis paniculatis v.

<i>Sen. nobis</i>	<i>Triglochin</i>
<i>Sen. hippocrepis</i>	fl. herm. <i>Alisma</i>
	fl. monov. <i>Pygostemma</i>



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Altimare

Mr. [Name] [Address]
[City] [State] [Zip]

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Præter has notatas Sagittarias in
America tropica proveniunt:

S. laurifolia Lin (Annon Acad. V. 409)

differt a simillime S. Selloviana scapis valde
ramosis, pedicellis bracteis pluries superantibus
glumis triplo majoribus et cespitiis glaberrimis

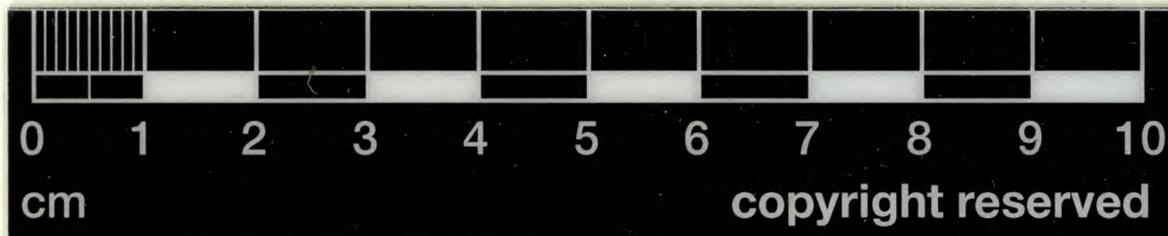
Ju. occid.

Plum. ed Journ. t. 116. 1

Bol Mag. t. 1792

S. angustifolia L'art (Bot Reg. t. 1141)

foliis lanceolatis vix costivenis, scapo gracili
subramoso, pedunculis filiformibus subaequalibus
petalis multo longioribus bracteis ovatis acu-
minatis. — flores albi multo minores ac in
praecedente.



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Alisma

Walpers Annalen

- I p. 769 *Alisma virgata* Hook & Arn Bot Beech. 311
A. *Andrieuxii* H & Arn ib.,
Sagittaria obtusissima Hassk. Catal. hort. Bot. 26
S. *macrophylla* Juss. Abh. 1. 289
p. 1011. *Alisma floribundum* Seub. : Mart Fl. Pr. 9. 109
Sagittaria scubertiana Mart. ib. 110
S. *affinis* Seub. ib. 111
III. p. 506 *Sagittaria triandra* Dalgell : Hook Her Gard Misc
S. *Holonifera* Dugl. Bot Jon. ^{p. 144}
p. 928 *Damasonium Bourzaii* Conon
S. *polyspermum* Conon
VI. p. 5. *Baldellia Patersonii* n. sp. 1854.
B. *ranunculoides* Parl.
6 *Alisma acanthocarpum* Ferd. Mull. 1858
A. *disprococum* Ferd. Mull. 1858
A. *arcuratum* Michalet Bull bot. Fr. 1. 311
form of *Platago*.



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Chimera

Chimera

p. 101. Chimera...
 p. 102. Chimera...
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 p. 104. Chimera...
 p. 105. Chimera...
 p. 106. Chimera...
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 p. 120. Chimera...

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Flora Brasiliensis

Endlicher & Martius

Alismaceae, Moritz Seubert.

Fascicul VIII. 1847

p. 103. Alisma Lini. fl. herm; perigon hexaphyllum.
fil. 3. ext. calycinis persistentibus, 3 interioribus
petaloidis aestivatione involutis, deciduis
stam. 6. 9. 12 et plura; filamenta filiformi
vel planiuscula, ovaria 9 vel plura: orbem
disposita, vel plurima et tunc spiralia
ordnata. . . . ovulum basilare campylotropum
stigma terminale papillosum; semen univulvatum
complanatum, embryo hippocrepis, parte
rostellari obtusiore, hilo opposita, sed
ob curvaturam ei parallela contigua
plumula involuta univulva.

p. 105 I Qualisma „oligocarpa, cyclocarpa
stam. 6-9

II Lophiocarpus (Kuntze sub Sagittaria)
stam. 6-12 [cephalocarpa]; carpodii
costis membranaceis dentatis recurvis

III Echinodorus Rich. Stam. 12, plurimum
carpodiis: receptaculo convexo vel globoso
spirulitas ordnata [cephalocarpa]



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I Eualima

p. 105
1. A. tenellum Mart. Tab XIII. f. 2
stam. 9; carpide bise convexo 5 costis aut 3 cost
- A. ramunculoides var. brasiliense A. d. St. Hilare
Gardner 2740 Class 50 etc. - carpide 8-costata.

II Lophiscarpus

2. A. echinocarpus Leub. Sagittari Mart. Kunth.
S. Guyanensis HBK. S. Crataegata W. Hb.
carpidiorum cristis dentatis 8 [nothing said about direction of
of pedicels nor calyx] fil
Tab XIII. f. 3. Stam 6-8 - plura
Kunth's species is sometimes monocious.
Gardner 2738

III. Chenopodas.

p. 106. 3. A. intermedium Mart Tab. XIV

carpidis ovatis stylo mucronatis
octocostatis glandulosis
stam 9; filam filiformi



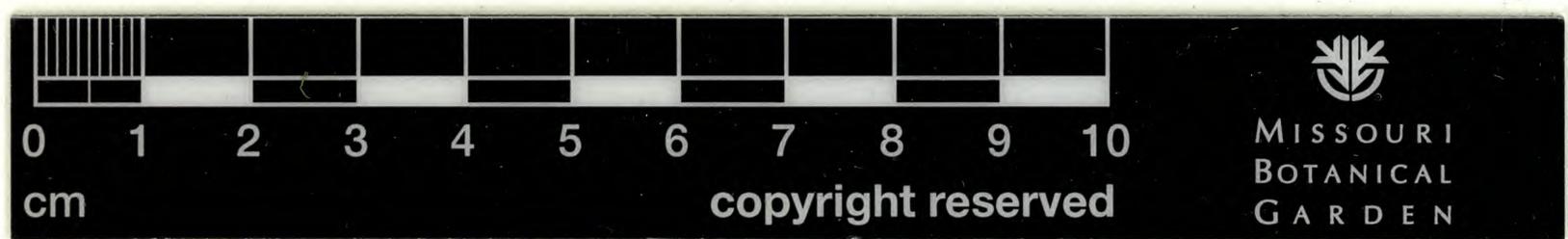
4. A. subalatum Mart - carpidis ovatis
striatis stylo uncinato terminatis
A. Sprangeli Kunth seems the same

p. 107. 5. A. pubescens Mart - carpidis stylo cuspidatis
sequenti valde affinis. Plumet 3153
S. Clausenii Class 351.

6. A. ellipticum Mart Tab 13 f. 4
carpidis stylo cuspidatis glandulosis caput
stam 12 - carp cost. filiformi 8 utroque
medio glandulam majorem gerentia.

p. 108. 7. A. grandiflorum Cha. & Schlecht carp. costat.
stylo uncinato mucronatis

The properties of pedicel and calyx is always mentioned as a character.



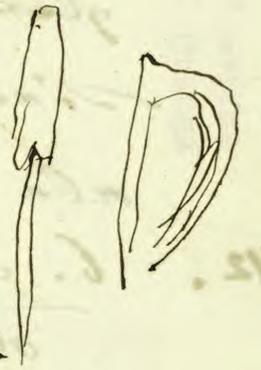
8. A. palaeifolium Kunth Sagittaria. Nees et Mart
sepala petalis sepala parva exsertatis
carpid. rotund. -
Stam 6-12 capit. carp. globos.

9. A. macrophyllum Kth. carp. capit. orb. - globos.
A. cordifolium Lin. pro parte
- - - Swartz obs. } nullus form. - Ind. occid.
A. Buterianum Balb. }
Stam 20. carpidi. obsoletus, ^{marant} corsete, seminaria
pro. tub. Gardner 700.

p. 109
10. A. floribundum Seub. A. cordifol. Mart. pro parte
S. Brasilensis Mart.
carp. capit. globos. stylo brevissimo mucronulato
Gardner 1860

Sagittaria Flores per abortum sexu distincti
monocci, masculi superi; petal. acutis
imbricatis. Flor. masculi centro ovaria
abortiva ~~gerentes~~ Stam 12 - plerima
Flor. foem. pedicellis incrassatis obscuris
staminum rudimentis praediti. Anni
plerima. spiraliter ordinata - receptacula
globosa - - styli brevis - stigma simpl.
oblongum ut supra

p. 110. 1/ S. Seubertiana Mart. XV. fil
Dahia Montibus (solus)
bract. rotundity
pedicellis proliferis rotatis
carpidi's ^{obovatis} dorso nervosis, stylo subnulla
filamentis & basi plerumque in acumen
filiforme hirtum excurrentia
carp. dorso rot. filiform.



p. 110 2. *Sag. Montevideensis* Ch & Schl ^{bract. lanceolat acuminat}
^{ped. fructif. incurvat}
 pedicell. fructiferis recurvatis, carpidiis oblique
 rostratis. — ^{capidiis} ^{membr.} ^{capitula}
 Bract. Sellow ^{petala lutea}

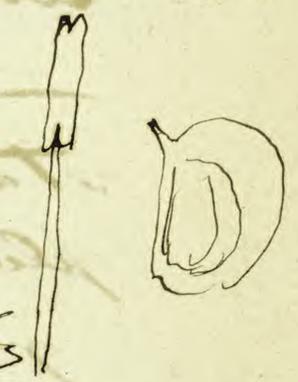
S. chilensis Ch & Schl est proxima
 sed filamento stultata glabra, pedicell
 fructiferis decurvatis floris spenssi
 luteis

p. 111. 3. *Sag. Rhombifolia* Cham ^{bract. lanceolat D. nerv. esp.}
^{ped. fructif. incurvat}
 rectis. — Sellow. filament. plan glab.

4. *S. affinis* Seub ^{bract. orb. obtus basi connat.}
 ped. fructif. incurvat. recurvat. — nerv. pli
 e costa media secudentes. —
 affinis *Sag. Montevid.* sed bracteae
 Bract. Martius

5. *S. Sellowiana* Kunth foliis penninerviis
 verticill 3 flor — bract lanceolat acut — ovalat
 carpidiis ala membranacea dorsali cinctis.

6. *S. acutifolia* W. Herb. 1756
 pedicell fructiferi rectis, stam 30
 filament glabr. carpidi acutis stylo
 oblique mucronata, in pedibus lateralibus
 glandulas quosdam et exlam angustam
 sinistramque in angulo ventrali gerentis
 ala dorsali lat. integra



112. 6. *S. acutifolia* Lin. bract. basi connat.
 obtus; ped. fructiferi crasso recto
 carpidiis oblique obovatis stylo destitutis circum-
 circa ala membranacea cinctis capit substat.
 (nothing above the nerves) petals flava.
 Schomburgk 756



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Catalogue de Nachet et Fils

16. Rue Serpente

- N. II. fr. 655 *Requiem*, des bys. may 2 if *unspelled*
- VII. fr. 165 *no system de tube* VI. 10 fr. *unspelled*
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micrometre
Liamant

Instrument

Carpenter
The microscope studio
Revelations of the
2^d Earl Grant Publishing
Blackman
Steyn 465



Alisma marianum Chamisso

Linnaea II p. 152 (1827)

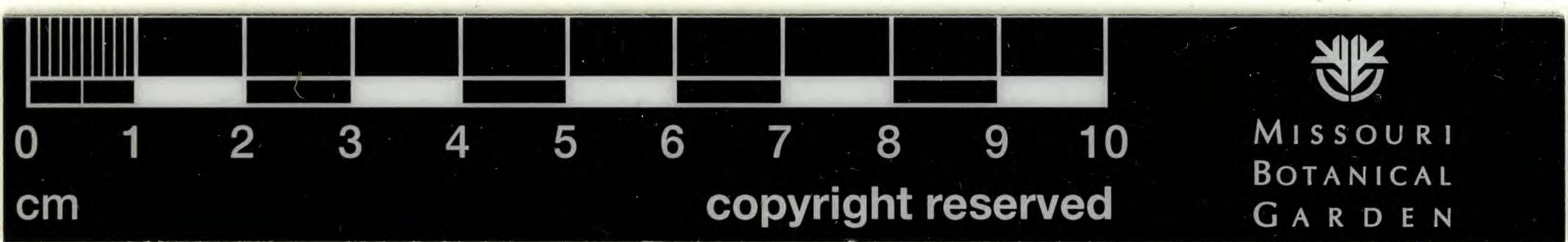
Alisma grandiflorum Ch & Sch

Sagittaria chilensis Ch. & Schl

Sagittaria Montevidensis Ch & Schl

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Stolonifera
152
155
156
24
Columbica
J. W. P.



Ledebour fl. rossica IV Stuttg. 1853. p. 39

Synthlipsis sagittifolia. (synon: monosica Gilib. S. vulgaris Gled.)

S. alpina Willd. ^{ubique. usque ad Kambockta.} Kunth = retans Pall. Siberia

Dumortiera deltoidea Moson. Caucasus

Alisma Plantago ubique

A. nummularia Lithuania

A. parvifolia Lithuania

A. retans r. r. etc.



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1789

1789

Brown Jamaica p. 345

Sagittaria foliis maximis
 simplicibus oblongis utrinque
 productis; venis verticillatis;
 caule glabro

Very common in stagnant
 waters in Jamaica

Stem 2-3 feet higher
 than leaves

Caule verticillately branched
 raceme compound

male flowers always on
longer pedicels than females

stalk & branches smooth
 and roundish

p. 204 Alisma foliis lanceolatis -

sagittatis venosis, nervo
 assurgenti nervo, angulato-
 sulcato; venis ternatis
 verticillatis - verticillatis



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In Sp. pl.: *Alisma foliis cordatis*
obtusis

All fl. hermaphrodite with 12 stamens
rises 2 or 3 feet above the root
pistils numerous — Looks
like a *Sagittaria*

[like our *Alisma radicans*
— but that has 24 stamens
& does not rise high. —

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1843

Flora of the State of New York by Dr J. Torrey

p. 259

vol II Albany 1843

1. Sagittaria sagittifolia Linn

var 1. vulgaris S. sagittifolia Michx etc

2. latifolia S. sagittifolia macrophylla Hook H.B.K. 2. 167

S. latifolia Willd. Pursh

3. hastata S. hastata Pursh Ell.

flowers mostly dioecious, lobes of leaf spreading

4. gracilis S. gracilis Pursh S. heterophylla

5. pubescens S. pubescens Pursh Kunth

6. simplex S. simplex S. graminea & S. acutifolia

7. rigida S. rigida Pursh

2. S. pusilla Nutt. On the Hudson S. subulata Barton

Philad. 2. 166. Alisma subulata Linn. Pursh



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