

Ferramentas e equipamentos de captura

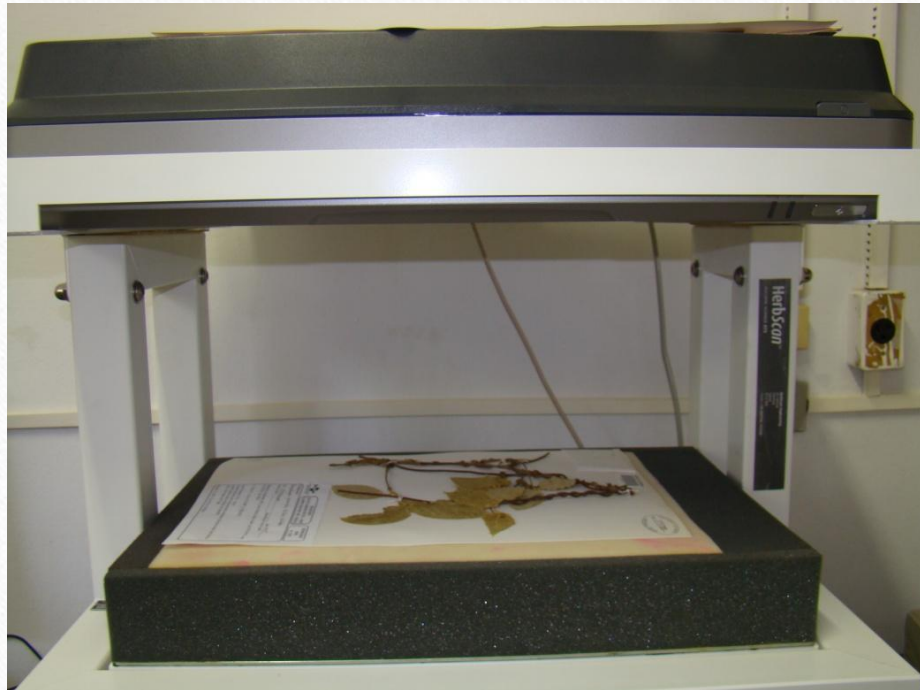
Maria Candida Henrique Mamede
Herbário SP
Instituto de Botânica

13/4/2015

Global Plants Initiative - 2009

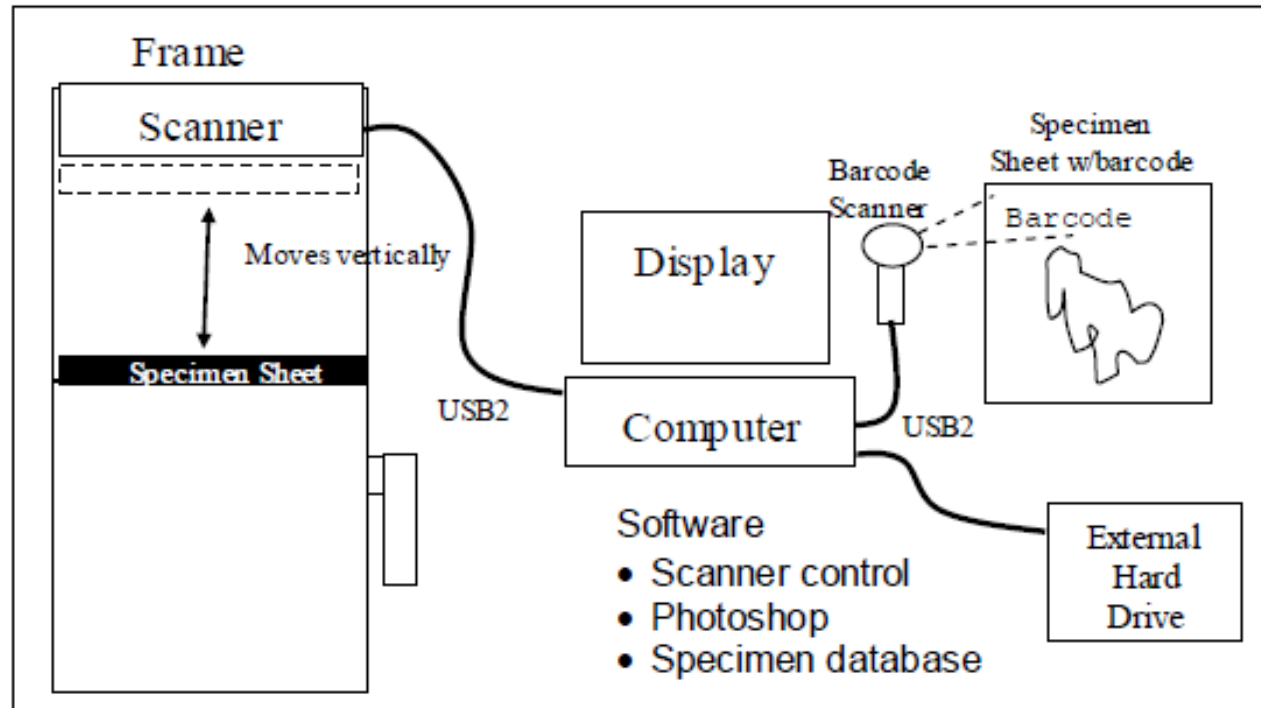
Coleção tipo

Scanner Epson 10000 XL



A HerbScan system includes:

- HerbScan frame
- Scanner with cable



- Computer
- Display
- Barcode reader
- External hard drive



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450663784



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HOLOTYPUS

COMISSÃO GEOGRÁFICA E GEOLOGICA DE S. PAULO
N.º 3452. FAM. LEGUMINOSAE

MIMOSAE

Mimosa repulans Benth.

Mimosa delicatula Hoehne n. sp.

Arbusto rasteiro, subcandente. Flores pálida-rosas.

Baixa Caçula - Campa.

S. Francisco dos Campos 22-XII-95.

Fl. Br. XV, II, 326.

Coll: Roberto Lofgren.

INSTITUTO DE BOTANICA "DARWINION"

Mimosa Hoehniana Burffart nov.
nom.
= *M. delicatula* Hoehne non Bailon
Sao Paulo No. 2144 del A. Burffart 1957.



3 minutos



5-6 minutos

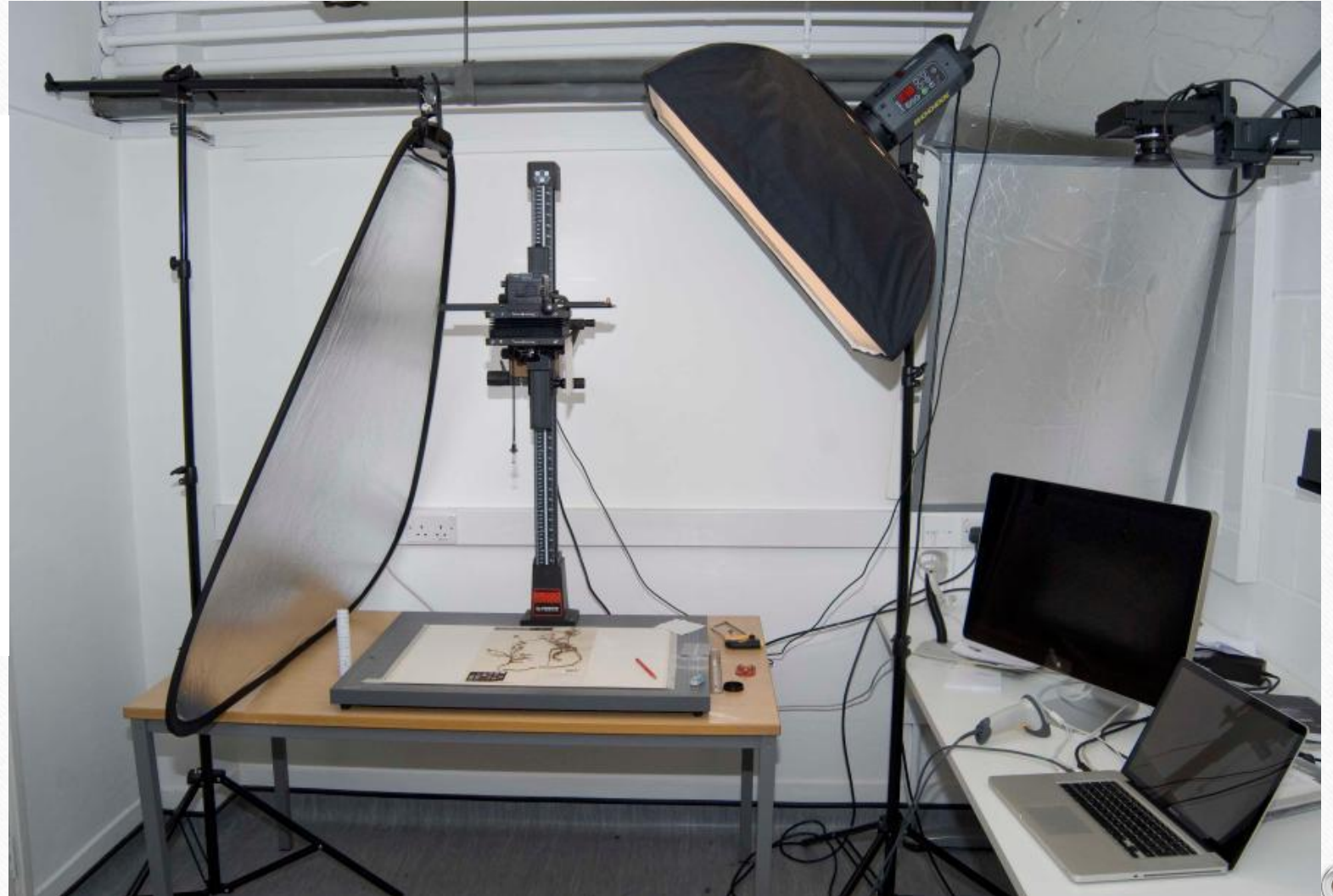
GPI - Material volumoso

Computer: Apple Mac Laptop
24" Flat screen Apple Monitor
External Hard drive

Camera: Leaf Aptus-II 10 Mamiya 645AFD
Espirit 500 DX Head Light
Trigrip Silver/White Reflector
Camera Stand
Specimen Table

2.2 Software

Leaf Capture
Adobe Photoshop CS4



Processamento e envio de imagens

- Salvar o arquivo com o código de barras [Adobe Photoshop]
- Inserir o código de barras no banco de dados
- Gerar arquivo XML em Brahms
- Enviar imagens (TIF) e XML para o JStor
 - Imagens (ftp)
 - Metadados (ftp)

INCT Herbário Virtual - 2011

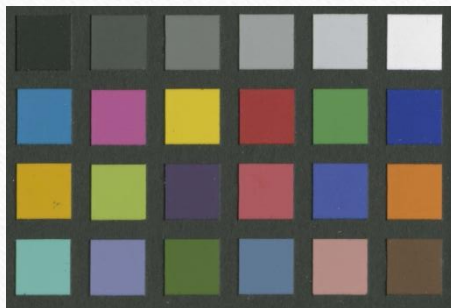
Canon EOS 550D KISSX4



Canon Macro Ring Lite MR-14EX



Escala de cores



Gretag Macbeth Mini
ColorChecker



ColorGauge Nano Target

Código de barras (exsicata)



Escala com logotipo institucional

Configuração da máquina

- Modo: Manual
- Abertura do diafragma: F4.5
- ISO: 100
- Foco automático: multifoco
- Imagem RAW (bruta)
- Anti-choque
- Disparo: 5 segundos



Acessórios

- Bateria da máquina fotográfica: 2
- Pilhas recarregáveis: 2 conjuntos de 4 pilhas com recarregador
- Adobe Photoshop ou Adobe Photoshop Lightroom
- HD externo: 1 TB ou 500 GB
- Storager ou Servidor dedicado para backup de imagens
- Leitor de código de barras

Processamento da imagem anterior

- Imagem original

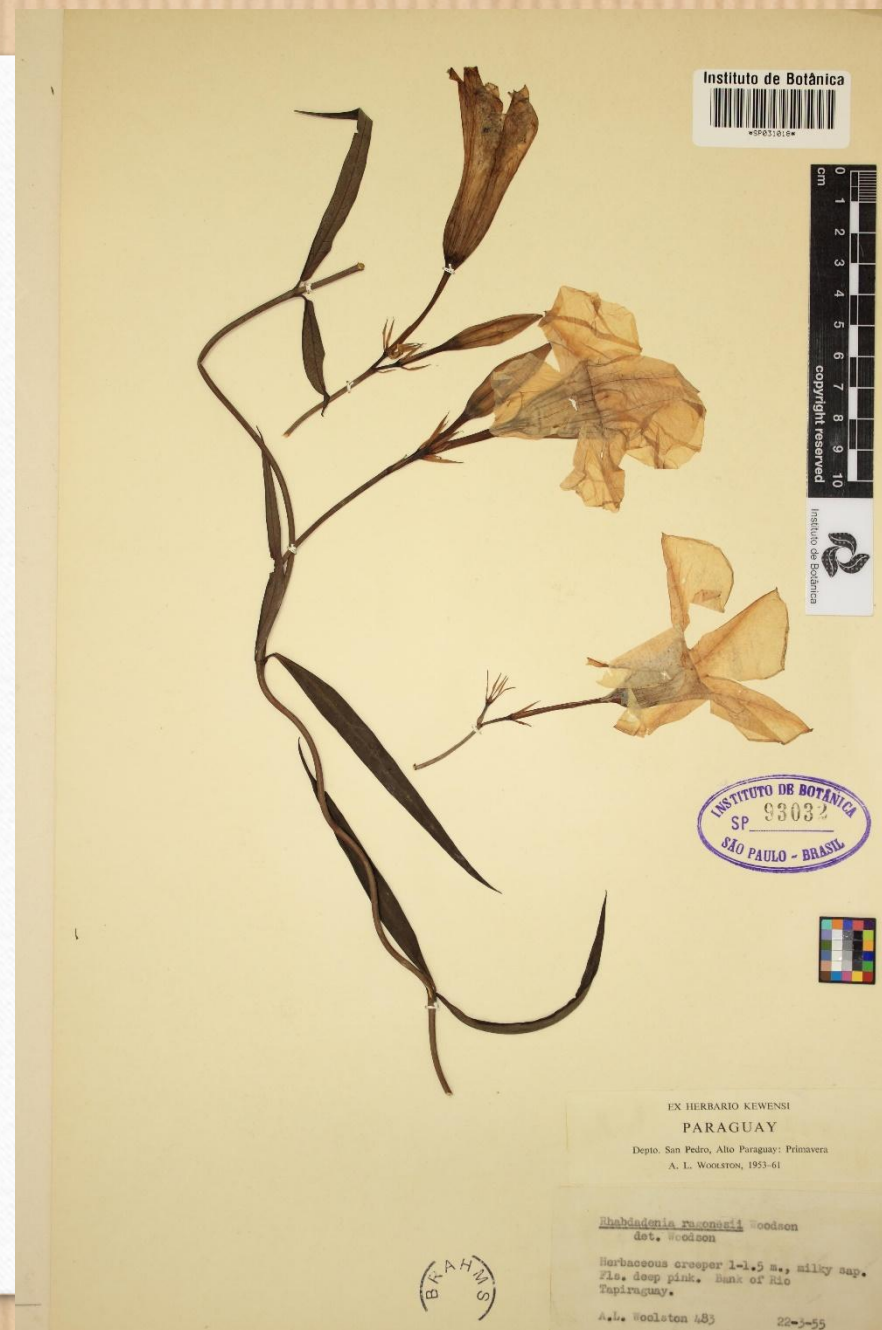


- Imagem processada



2 minutos

Processamento da imagem atual



Material-tipo volumoso



Processamento da imagem

- Renomear o arquivo com o código de barras
- Inserir o código de barras no banco de dados
- Transformar RAW em DNG (ou TIF)
- Enviar para o CRIA
 - Imagens (ftp)
 - Metadados (splink)

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Select up to four lighting system and click on "Compare selected" to compare side by side



Gem-eBox™
Basic System
☐ Select



Photo eBox Bio™
New York Botanical Garden Modified
☐ Select



Photo-eBox II™
Standard Tri-Lighting System
☐ Select



Photo-eBox PLUS™
Advanced Tri-Lighting System
☐ Select



Photo-eBox PLUS 1419™
Large Advanced Dual-Lighting System
☐ Select



The Box III™
The Ultimate Lighting System
☐ Select

New Photo Ebox Plus

- New linkage bracket
- New dimmable, foot-long, high powered LED
- New Accesories
- Nine switches

* Additional accesories can be included.



Product Tour

Explore all the features our products offer you.



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Learn how easy it is to shoot quality photos.



Full Benefits

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Companies who own our systems:



Photo@Box Bio



Price: \$1,780

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Model: 777000

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Lighting Systems > Photo-eBox

(New York Botanical Garden Modified)

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Main Features

Fluorescent Lighting

Natural daylight flicker-free continuous lighting source (6500K).(8) 28 watts each.



High Powered LED Lighting

1-foot LED Light Strip (5500K) with 12 LED's 3 Watts each, high power, fan-cooled.



Translucent Infinity Curve (white)

A removable infinity curve allows you to achieve perfectly white backgrounds, by removing the slightly darker back-bottom 90° corner.



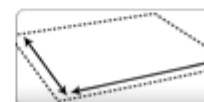
Multiple switches = total control

By controlling each of the fluorescent lights individually, you have the ability to be creative and achieve more high-end artistic photos.

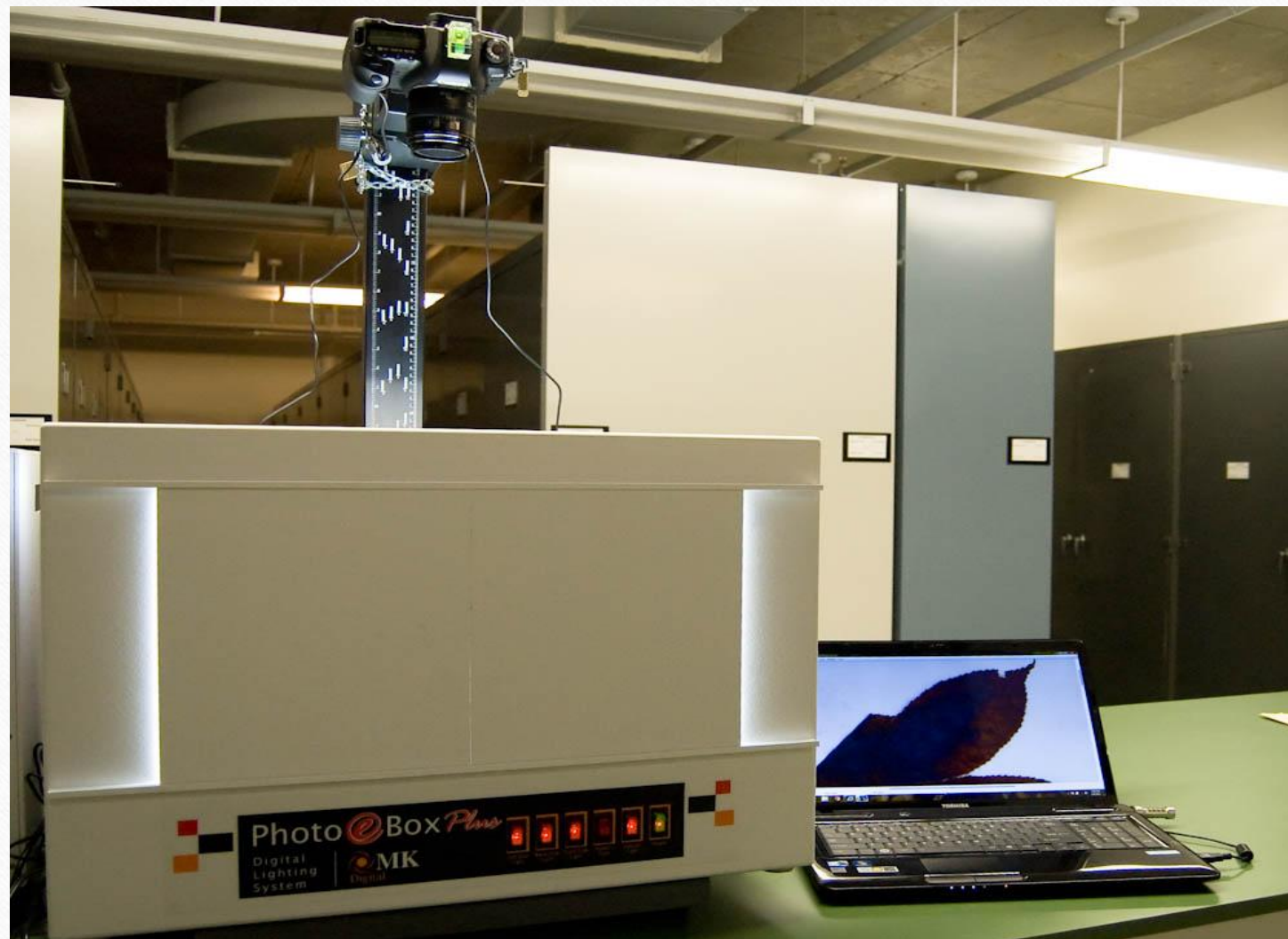


14.5 x 19.75" Platform Size

To photograph general large-sized objects.



New York Botanical Garden



Consortium of Pacific Northwest Herbaria

Providing access to specimen data and digital resources from herbaria throughout Pacific Northwest North America



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Specimen Imaging Documentation



These documents describe the technology and workflows used by the Consortium for imaging specimens at regional herbaria. The instructions and downloads below should be sufficient to replicate our setup elsewhere, although modifications may be required.

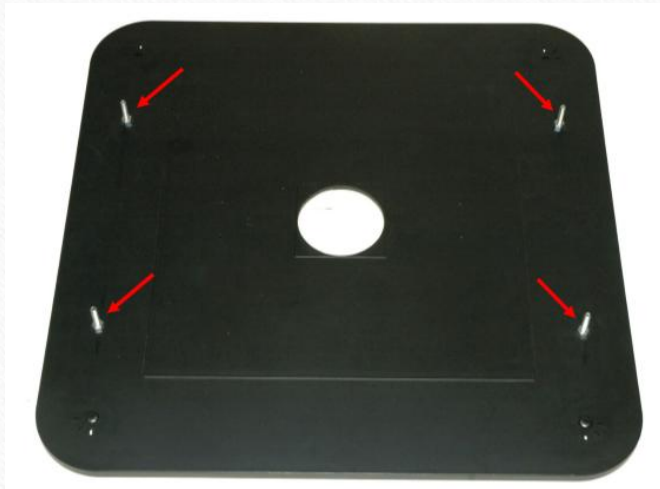
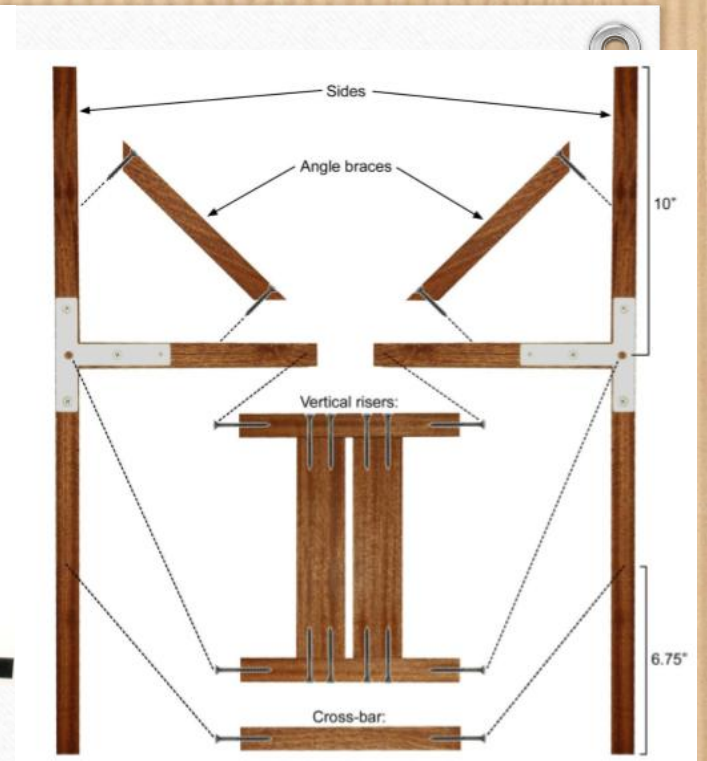
Multiple methods of imaging specimens exist. Our selection of equipment was determined by cost, ease of use, and efficiency. Likewise, there are multiple formats for archiving images and displaying these online, and the methods we use are not the only option.

A sample image captured using our setup is accessible here:

<http://www.pnwherbaria.org/portal/gmapviewer.php?Image=WTU000790>. We use the image viewer created for the Rocky Mountain Herbarium's web site. Documentation and source code for this viewer are available through the [RM Herbarium](#).

Documentation:

- [Overview of image capture and processing](#) (PDF, 0.4 MB)
A general description of the complete life cycle of image capture, processing, and online display. These steps include image capture within each herbarium, transfer of images to the Consortium's server, image processing and archiving, creation of corresponding database records, and online display of images.
- [Custom Imaging Components](#) (PDF, 1.7 MB)
Provides instructions for building the custom components for use with our imaging equipment, including the camera mount. These instructions are specific to our use of a



Herbário Virtual SP

Estratégia 1

- Digitalizar coleções importantes (tipos e históricas)
 - Tipos: 2.977 imagens (2.852 tipos)
 - Comissão Geográfica e Geológica de São Paulo: 4.246 imagens
 - Gardner, Sellow, Blanchet, Riedel: 75 imagens

Estratégia 2

Digitalizar toda a coleção

- ANNONACEAE: digitalização simultânea à informatização
- Início: 9/4/2012
- Fim: 15/9/2012
- Total de imagens: 1.470

Estratégia 3

- Digitalizar exsicatas representativas de cada táxon

- Espécime com flor

- Espécime com fruto

- Identificação confiável (especialista)**

- Distribuição geográfica

- Material identificado apenas ao nível de gênero? NÃO

- FABACEAE: 4.564, MALPIGHIACEAE: 1.682, MYRTACEAE: 3.023

Família	Registros	Imagens	Taxa total	Taxa imagens	Neotrop.	Extra Neotrop.	Taxa
Fabaceae	18.309	4.564	3.170	2.912	16.149	2.160	87%
Myrtaceae	11.382	3.049	1.345	507	10.780	602	37%
Malpighiaceae	11.606	1.682	471	441	11.606	0	100%
Melastomataceae	10.184	486	1.002	265	10.184	0	26%
Rubiaceae	10.419	386	1.025	201	10.270	149	20%
Euphorbiaceae	6.808	194	828	117	6.723	85	14%
Orchidaceae	7.716	936	1.876	936	7.614	102	40%
Apocynaceae	4.080	247	595	145	3.993	87	24%
Lauraceae	2.830	114	336	64	2.830	0	19%
Begoniaceae	1.472	212	140	86	1.472	0	61%
Arecaceae	829	98	174	25	829	0	14%
10/04/2014							

Fabaceae

 Data analysis   

3156 different records for the field species. Σ

Record count	species
166	<i>Stylosanthes guianensis</i> (Aubl.) Sw.
138	<i>Desmodium incanum</i> DC.
123	<i>Inga marginata</i> Willd.
116	<i>Senna multijuga</i> (Rich.) H.S.Irwin & Barneby
103	<i>Andira fraxinifolia</i> Benth.
99	<i>Senna rugosa</i> (G.Don) H.S.Irwin & Barneby
97	<i>Zornia latifolia</i> Sm.
97	<i>Chamaecrista flexuosa</i> (L.) Greene var. <i>flexuosa</i>
94	<i>Indigofera suffruticosa</i> Mill.
94	<i>Dahlstedtia pinnata</i> (Benth.) Malme
90	<i>Periandra mediterranea</i> (Vell.) Taub.
90	<i>Crotalaria micans</i> Link
86	<i>Zornia reticulata</i> Sm.
86	<i>Dalbergia frutescens</i> (Vell.) Britton
83	<i>Leptolobium dasycarpum</i> Vogel
80	<i>Inga sessilis</i> (Vell.) Mart.
79	<i>Inga affinis</i> DC.
78	<i>...</i>

Sort on Record totals Ascending     Exit

Myrtaceae

 Data analysis ⏏ 🖨 ✖

1342 different records for the field species. Σ

Record count	species
318	<i>Myrcia fallax</i> (Rich.) DC.
282	<i>Campomanesia pubescens</i> (A.DC.) O.Berg
262	<i>Eugenia punicifolia</i> (Kunth) DC.
254	<i>Myrcia guianensis</i> (Aubl.) DC.
194	<i>Myrcia multiflora</i> (Lam.) DC.
180	<i>Myrcia tomentosa</i> (Aubl.) DC.
169	<i>Psidium cattleianum</i> Sabine
148	<i>Psidium guineense</i> Sw.
146	<i>Eugenia florida</i> DC.
139	<i>Myrciaria floribunda</i> (H.West ex Willd.) O.Berg
117	<i>Calypttranthes concinna</i> DC.
113	<i>Eugenia bimarginata</i> DC.
110	<i>Blepharocalyx salicifolius</i> (Kunth) O.Berg
109	<i>Eugenia hiemalis</i> Cambess.
103	<i>Myrcia laruttea</i> Cambess.
100	<i>Myrcia spectabilis</i> DC.
98	<i>Myrceugenia myrcioides</i> (Cambess.) O.Berg
84	<i>Myrcia ...</i>

Sort on Record totals Ascending ▼ 💾 📊 📝 Exit

Orchidaceae

 Data analysis   

1871 different records for the field species. Σ

Record count	species
193	<i>Epidendrum secundum</i> Jacq.
110	<i>Habenaria parviflora</i> Lindl.
95	<i>Brasiliorchis picta</i> (Hook.) R.B.Singer, S.Koehler & Carnevali
57	<i>Octomeria crassifolia</i> Lindl.
43	<i>Epidendrum fulgens</i> Brongn.
42	<i>Epidendrum rigidum</i> Jacq.
39	<i>Catasetum fimbriatum</i> (E.Morren) Lindl.
39	<i>Specklinia grobyi</i> (Bateman ex Lindl.) F.Barros
39	<i>Cleistes libonii</i> (Rchb.f.) Schltr.
37	<i>Octomeria grandiflora</i> Lindl.
37	<i>Prescottia oligantha</i> (Sw.) Lindl.
36	<i>Cranichis candida</i> (Barb.Rodr.) Cogn.
35	<i>Brasiliorchis gracilis</i> (Lodd.) R.B.Singer, S.Koehler & Carnevali
35	<i>Gomesa crispa</i> (Lindl.) Klotzsch ex Rchb.f.
33	<i>Liparis nervosa</i> (Thunb.) Lindl.
32	<i>Prescottia stachyodes</i> (Sw.) Lindl.
31	<i>Sacoila lanceolata</i> (Aubl.) Garay

Sort on Record totals Ascending     Exit

Rubiaceae

 Data analysis   

1022 different records for the field species. Σ

Record count	species
271	<i>Psychotria carthagenensis</i> Jacq.
194	<i>Psychotria vellosiana</i> Benth.
167	<i>Psychotria suterella</i> Müll.Arg.
167	<i>Psychotria hoffmannseggiana</i> (Roem. & Schult.) Müll.Arg.
158	<i>Declieuxia fruticosa</i> (Willd. ex Roem. & Schult.) Kuntze
153	<i>Coccocypselum lanceolatum</i> (Ruiz & Pav.) Pers.
152	<i>Palicourea rigida</i> Kunth
141	<i>Psychotria leiocarpa</i> Cham. & Schtdl.
134	<i>Chiococca alba</i> (L.) Hitchc.
129	<i>Palicourea marcgravii</i> A.St.-Hil.
115	<i>Borreria verticillata</i> (L.) G.Mey.
112	<i>Coccocypselum condalia</i> Pers.
103	<i>Psychotria nuda</i> (Cham. & Schtdl.) Wawra
102	<i>Emmeorrhiza umbellata</i> (Spreng.) K.Schum.
99	<i>Manettia cordifolia</i> Mart.
98	<i>Coussarea hydrangeifolia</i> (Benth.) Benth. & Hook.f. ex Müll.Arg.
95	<i>Guettarda viburnoides</i> Cham. & Schtdl.

Sort on Record totals Ascending     Exit



Data analysis



153 different records for the field species.

Σ

Record count	species
95	<i>Geonoma schottiana</i> Mart.
59	<i>Geonoma elegans</i> Mart.
35	<i>Geonoma pohliana</i> Mart. subsp. <i>rodriguesii</i> A.J.Hend.
34	<i>Syagrus flexuosa</i> (Mart.) Becc.
33	<i>Bactris setosa</i> Mart.
24	<i>Euterpe edulis</i> Mart.
17	<i>Geonoma gamiova</i> Barb.Rodr.
15	<i>Butia paraguayensis</i> (Barb.Rodr.) L.H.Bailey
15	<i>Syagrus romanzoffiana</i> (Cham.) Glassman
14	<i>Syagrus oleracea</i> (Mart.) Becc.
13	<i>Syagrus petraea</i> (Mart.) Becc.
11	<i>Lytocaryum weddellianum</i> (H.Wendl.) Toledo
11	<i>Geonoma pauciflora</i> Mart.
11	<i>Butia purpurascens</i> Glassman
11	<i>Astrocaryum aculeatissimum</i> (Schott) Burret
8	<i>Syagrus</i>
8	<i>Allagoptera campestris</i> (Mart.) Kuntze

Sort on Record totals Ascending



Exit

Arecaceae

829 registros

1.929 exsicatas

[c:\tempfiles-brahms-1\herbsp\extracts\specextract.dbf (alias= SPECOUT)]

herbarium	herblocate	category	catabbrev	specid	brahms	registro	barcode	phenology	coletor	prefix	numero
SP		XS	??	57389	53034	47470a			Toledo, J.F.		s.n.
SP		Carpoteca	CARP	77381	53034	47470b			Toledo, J.F.		s.n.
SP		Herbarium sheet	HS	57390	53035	4663			Gehrt, A.		s.n.
SP		Herbarium sheet	HS	57391	53036	224845			Aguiar, F.F.A.		9
SP		XS	??	57392	53036	224845a			Aguiar, F.F.A.		9
SP		XS	??	57393	53036	224845b			Aguiar, F.F.A.		9
SP		XS	??	57394	53036	224845c			Aguiar, F.F.A.		9
SP		XS	??	57395	53036	224845d			Aguiar, F.F.A.		9
SP		XS	??	57396	53036	224845e			Aguiar, F.F.A.		9
SP		XS	??	57397	53036	224845f			Aguiar, F.F.A.		9
SP		Herbarium sheet	HS	57398	53037	223524			Aguiar, F.F.A.		3
SP		XS	??	57399	53037	223524a			Aguiar, F.F.A.		3
SP		XS	??	57400	53037	223524b			Aguiar, F.F.A.		3
SP		XS	??	57401	53037	223524c			Aguiar, F.F.A.		3
SP		XS	??	57402	53037	223524d			Aguiar, F.F.A.		3
SP		XS	??	57403	53037	223524e			Aguiar, F.F.A.		3
SP		Herbarium sheet	HS	57404	53038	204111			Goes, M.		s.n.
SP		XS	??	57405	53038	204111a			Goes, M.		s.n.
SP		Herbarium sheet	HS	57406	53039	48236			Toledo, J.F.		s.n.
SP		XS	??	57407	53039	48236a			Toledo, J.F.		s.n.
SP		XS	??	57408	53039	48236b			Toledo, J.F.		s.n.
SP		XS	??	57409	53039	48236c			Toledo, J.F.		s.n.
SP		XS	??	57410	53039	48236d			Toledo, J.F.		s.n.
SP		Carpoteca	CARP	77382	53039	48236e			Toledo, J.F.		s.n.
SP		Herbarium sheet	HS	57411	53040	246433			Silva, L.A.M.		2510
SP		Herbarium sheet	HS	57413	53042	75423			Mattos, J.R.		15609
SP		XS	??	57414	53042	75423a			Mattos, I.R.		15609

7 imagens

Syagrus gomesii

Atenção!

Os nomes das espécies e gêneros ao lado são comparados com alguns dicionários de acordo com o grupo biológico.

Em **negrito verde** aparecem os aceitos, em **negrito cinza** os sinônimos e em **laranja** os não encontrados.

Nomes de **famílias** são apenas checados quanto a constarem ou não dos dicionários. No inventário de espécies, o nome aparece em **azul** quando o espécime é identificado apenas até gênero. Veja **dicas de uso** para informações mais detalhadas.



PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558a Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002475. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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exsiccatæ



PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558c Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002471. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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exsiccatæ



PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558j Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002481. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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exsiccatæ



PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558h Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002479. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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exsiccatæ



PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558d Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002474. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

SP 175558 Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002473. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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exsiccatæ



PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558g Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002478. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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exsiccatæ



PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558b Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002472. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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exsiccatæ



PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558i Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002480. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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PLANTAE ARECACEAE

Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558e Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002477. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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Syagrus gomesii Glassman **Isotype**. Det: Glassman, S.F. **01/01/1968**

175558f Col: Glassman, S.F. 8005. Hacienda Gueivira, Prop. Dr. Mario A. Bastos, Pompéia, São Paulo, Brasil, **04/07/1965**. Cód. barras: SP002476. Coord. munic.: [lat: -22.1 long: -50.17 err: ±31563 WGS84]

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Perspectivas futuras

- Coleções importantes
 - Tipos
 - Coleções históricas (Gardner, Regnell, Sellow, Blanchet, Saint-Hilaire)
- Coleções representativas dos taxa
 - Espécimes com flor e fruto
 - Abrangência da distribuição geográfica das espécies
 - Material revisado por especialista

Perspectivas futuras

- Mecanismos de controle de qualidade
 - Qualidade da imagem
 - Consistência da informação

Colaboradoras



Fátima Souza Buturi



Jessica de Lima



Renata de Almeida Scabbia



Elaine Alves da Silva



Obrigada!

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