

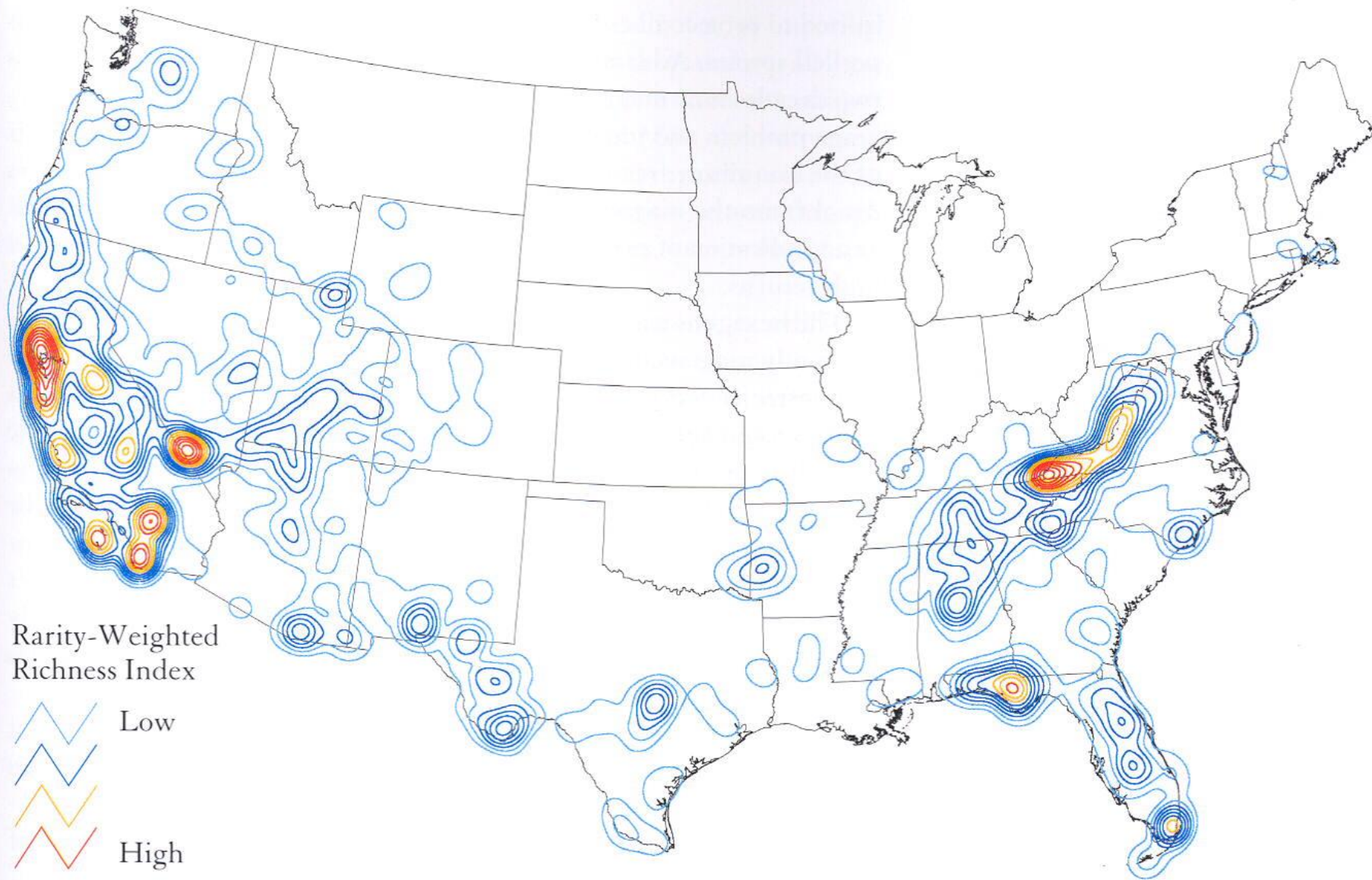
A satellite-style map of the southeastern United States and the Gulf of Mexico coastline. The land is shown in shades of green and brown, while the water is dark blue. The Gulf of Mexico is visible on the right side of the image.

The 2007 Deep South Plant Specimen Imaging Project Protocol and How it Differs from FSU's 2015 SERNEC Protocol

Austin Mast
Robert K. Godfrey Herbarium
Florida State University

Outline

- Motivation
- Approaches



Outline

- Motivation
- Approaches



Jump:

The Deep South eFlora Project

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DSeFlora.WebHome r1.8 - 13 Oct 2005 - 13:27 - [AustinMast](#) [topic end](#)

Welcome to the home of **Deep South eFlora Project**. This is a web-based collaboration area for the design of a comprehensive plant database for the Deep South of the United States.

The First Deep South eFlora Workshop

[Description](#)

[Date and location](#)

[Participants](#)

[Schedule](#)

[Sunday Morning Field Trip](#)

[Questionnaire Responses](#)

[Maps and Dinner Recommendations](#)

Plant Resources of the Deep South

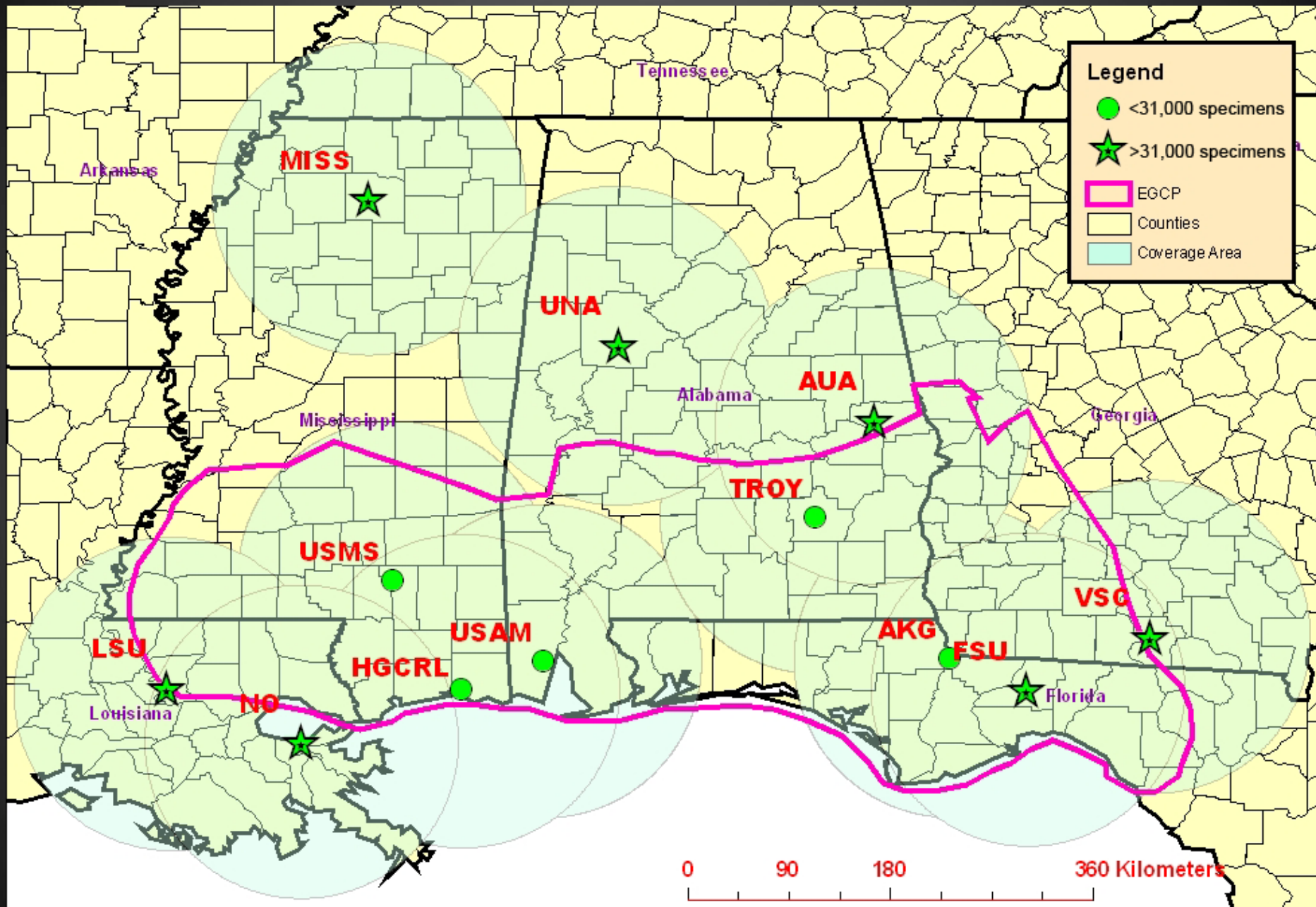
[Herbaria](#)

[Field Stations](#)

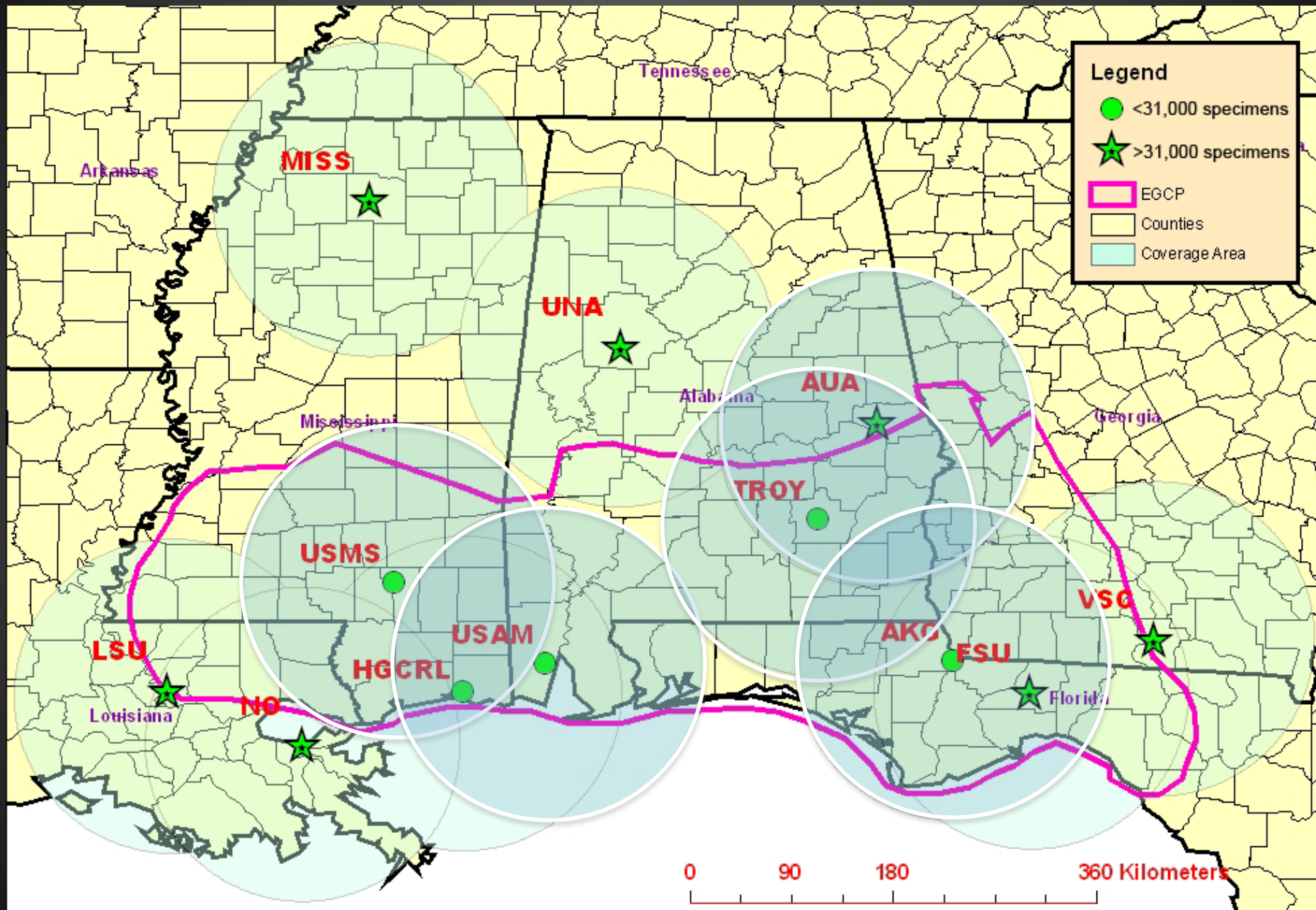
[Botanic Gardens](#)

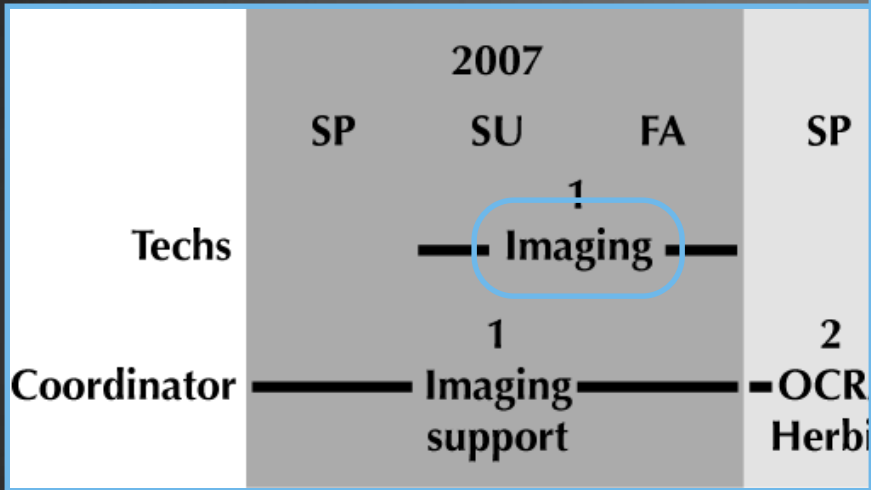
[Land Managers](#)

12 original collaborating institutions



5 final collaborating institutions





PLANT SPECIMEN IMAGING WORKBENCH

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The Plant Specimen Imaging Workbench provides online management tools for Biological Research Collections that are imaging and databasing their plant specimens. At present, the Workbench provides tools for keeping track of the specimens as they are imaged and the images as they are processed. The suite of tools provided here will expand in 2008 to include Optical Character Recognition processing of the images, use of the [HERBIS](#) web service for parsing the OCR text string into relevant fields, a proofreading interface for the HERBIS-parsed data, on-demand uploading of the specimen images to [Morphbank](#), and data downloads to contributing Biological Research Collections.

The Workbench currently serves the five institutions involved in the [Deep South Plant Specimen Imaging Project](#). If you are interested in using the Workbench for another project, contact [Austin Mast \(Florida State University\)](#).

The construction of this cyberinfrastructure resource was supported in part by the National Science Foundation under Grant No. DBI-0646222. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the [National Science Foundation](#).

© 2007 Plant Specimen Image Workbench, Florida State University, Tallahassee, FL 32306

Phone: (850) 645-7583

Fax: (850) 644-9399

The PHP logo consists of the lowercase letters 'php' in a white, bold, sans-serif font, set against a blue oval background.The MySQL logo features a stylized white outline of a leaping fish above the text 'MySQL' in a blue, bold, sans-serif font. A small 'TM' trademark symbol is located to the right of the text.

<http://www.specimenimaging.com/>

PLANT SPECIMEN IMAGING WORKBENCH

Add Specimen

User ID: amast [[Logout](#)]

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[Links](#)

[Database](#)

[Documentation](#)

Specimen Data Entry Form

Catalog Number: Inc HC

Name on Folder: Repeat

Folder Name / Specimen Name Incongruence

Identification Qualifiers: Prefix: Suffix: Repeat

Herbarium Code: FSU

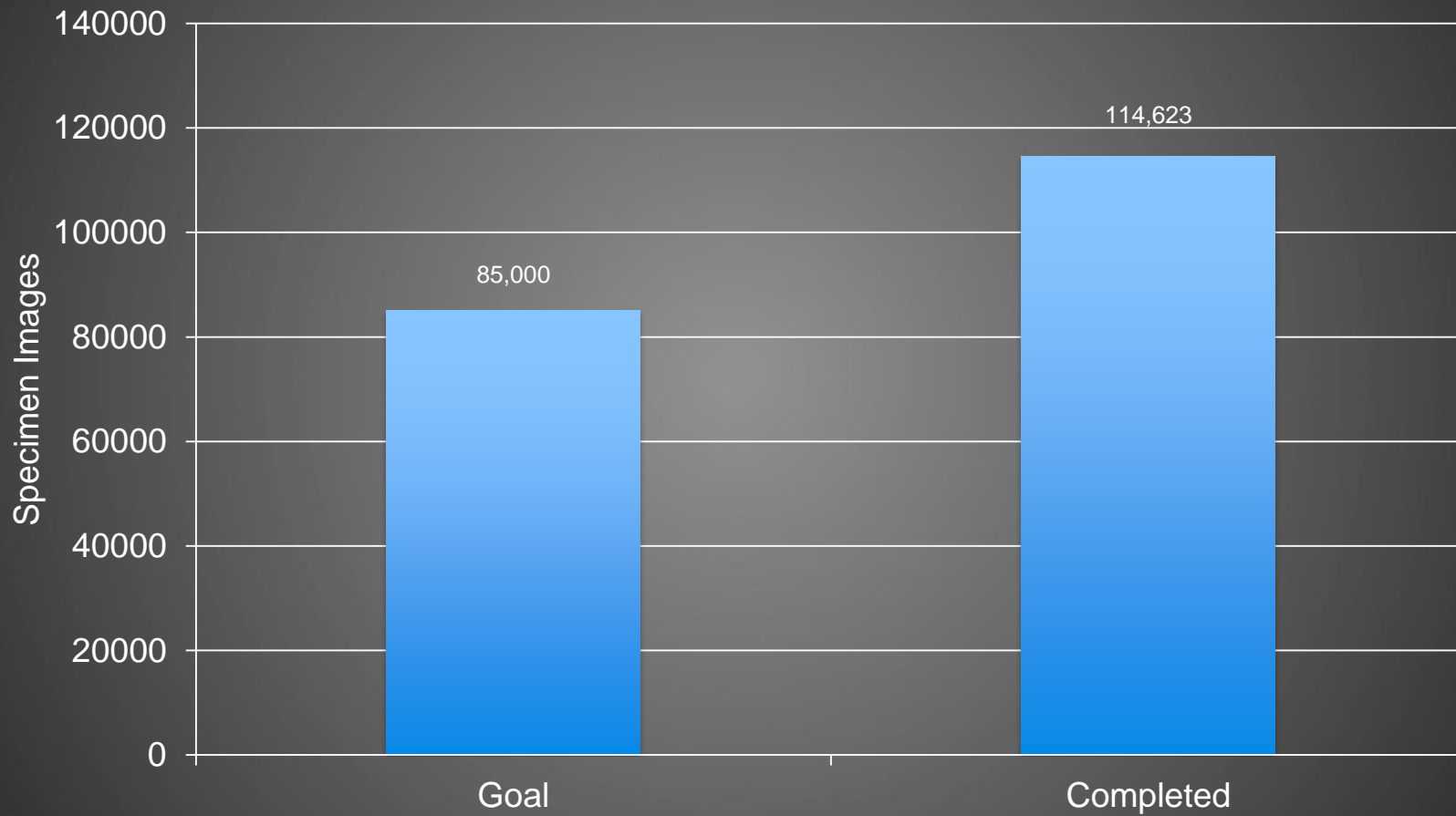
State: Repeat

Specimen Damage: Repeat

Type Status: Repeat

Remark: Repeat

Specimen Imaging Goal vs. Completed



2007 Deep South Protocol vs. 2015 FSU SERNEC Protocol

Deep South	FSU SERNEC
Image FL specimens.	Image specimens of SE US taxa.
Decide “in” vs. “out” based on folder color.	Decide “in” vs. “out” based on USDA PLANTS distribution map.
No pre-imaging curation.	Barcode and (if name is not accepted by The Plant List) annotate well before imaging.
Barcode and record specimen and folder info individually at time of imaging with PHP/MySQL.	Record folder-level info at time of pre-imaging curation in GoogleDoc.
Communication about individual specimens via email.	Communication about individual specimens via GoogleDoc.
Photographers have several things to do.	Interns do curation and barcoding; photographers are only focused on maximizing rate of imaging.



Jessica Blackband



Suzanna Calandros



Jessica Chui



Ghita Heidt



William Glover



Ryan Kilbride



Katherine McCoy



Michelle Smith

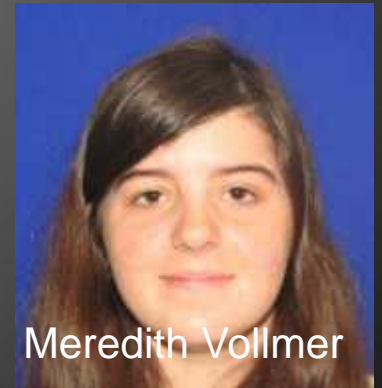
**Godfrey Herbarium
Interns
Spring 2015**



Kyle Spells



Charles Stewart



Meredith Vollmer

2007 Deep South Protocol vs. 2015 FSU Protocol

Spring 2015 Interns Spreadsheet ☆

File Edit View Insert Format Data Tools Add-ons Help All

Austin Mast

Comments Share

fx Apocynum pumilum

	A	B	C	D	E	F	G
1	Date	Intern	Filed-under Family	Same family name as TPL?	Folder name	Accepted by TPL?	Consistent match between name on folder and name on specimens?
2	1/20/2015	Jessica B	Apocynaceae	Y	Allamanda cathartica	Y	Y
3	1/20/2015	Jessica B	Apocynaceae	Y	Apocynum medium	Y	Y
4	1/20/2015	Jessica B	Apocynaceae	Y	Amsonia ciliata	Y	Y
5	1/20/2015	Jessica B	Apocynaceae	Y	Apocynum androsaemifolium		N
6	1/20/2015	Jessica B	Apocynaceae	Y	Apocynum pumilum	N	Y
7	1/20/2015	Jessica B	Apocynaceae	Y	Apocynum sibiricum	N	Y
8	1/20/2015	Jessica B	Apocynaceae	Y	Carissa macrocarpa	Y	N
9	1/20/2015	Jessica B	Apocynaceae	Y	Catharanthus roseus	Y	Y
10	1/20/2015	Jessica B	Apocynaceae		Halophyton crooksii	N	
11	1/20/2015	Jessica B	Apocynaceae	Y	Kopsia	Y	Y
12	1/20/2015	Jessica B	Apocynaceae	Y	Nerium oleander	Y	N
13	1/20/2015	Jessica B	Apocynaceae	Y	Ochrosia elliptica	Y	Y
14	1/20/2015	Jessica B	Apocynaceae	Y	Plumeria obtusa	Y	Y
15	1/20/2015	Jessica B	Apocynaceae	Y	Rauvolfia tetraphylla	Y	N
16	1/20/2015	Jessica B	Apocynaceae	Y	Thunbergia diffusa	Y	N

2007 Deep South Protocol vs. 2015 FSU Protocol

GoogleDoc Columns:

- Date Fill in prior to opening folder
- Intern
- Filed-under Family
- Same family name as TPL? (Y/N)
- Folder Name
- Accepted by TPL (Y/N)
- Consistent match between name on folder and name on specimens? (Y/N)
- Barcode Start
- Barcode End
- Additional Barcode
- “Type” seen in folder? (Y/N)
- Damage seen in folder? (Y/N)
- “Poison” seen in folder? OR black stains seen on sheet?
- Comments
- Austin’s Comments

2007 Deep South Protocol vs. 2015 FSU Protocol

GoogleDoc Columns:

- Date
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- Filed-under Family
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- Consistent match between name on folder and name on specimens? (Y/N)
- Barcode Start Fill in after working in folder
- Barcode End
- Additional Barcode
- “Type” seen in folder? (Y/N)
- Damage seen in folder? (Y/N)
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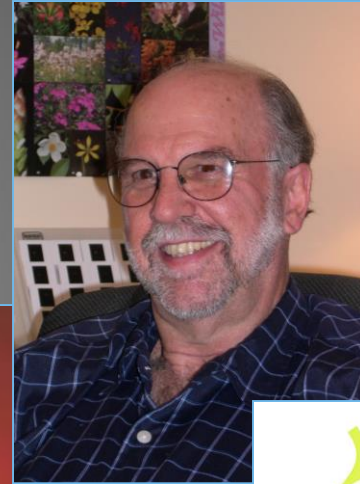
2007 Deep South Protocol vs. 2015 FSU Protocol

GoogleDoc Columns:

- Date
- Intern
- Filed-under Family
- Same family name as TPL? (Y/N)
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- Comments
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Where I give directions

Acknowledgements



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- **USMS:** A. Karen Persons, Vijay S. R. Kalvemula, and Tharangamala Samarakoon for imaging and datasing.