

SERNEC – TCN: Keys to the cabinets: Building and Sustaining a Research Database for a Global Biodiversity Hotspot

M.W. Denslow, Herrick Brown &
Zack Murrell

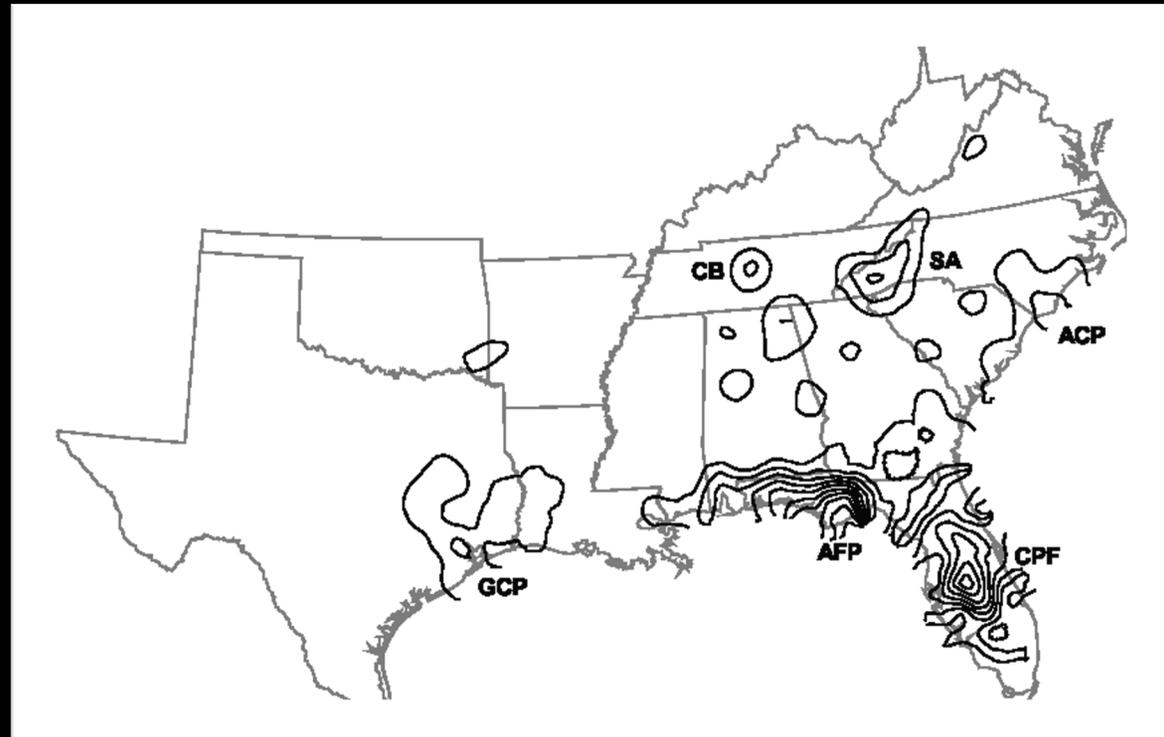
iDigBio Summit 2021

NSF Award 1410069



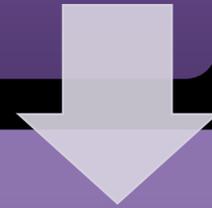
The Project

- Southeastern U.S. vascular plants
- 93 collections
 - 6+ via PENs
- 12 states
- 5M specimens

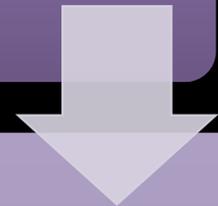


Workflow

Image / Skeletal Data Capture



Transcription / Georeferencing



Mobilization / Repatriation

Progress

- PEN #2
 - Filling in Knowledge Gaps with Key Herbaria for Understanding Vascular Plant Diversity in the Atlantic Coastal Plain
 - 118,000 records, 3 herbaria
 - 99% complete



Progress

- PEN #3
 - Integrating the unique collections of southern Illinois at SIU to improve coverage of the Southeastern US Flora in SERNEC
 - Delayed start due to pandemic
 - Starting working on predigitization curations tasks



Portal Use (past year)

- 32,223 new users
- 78,669 sessions
- 1,334,94 pageviews

- Geography

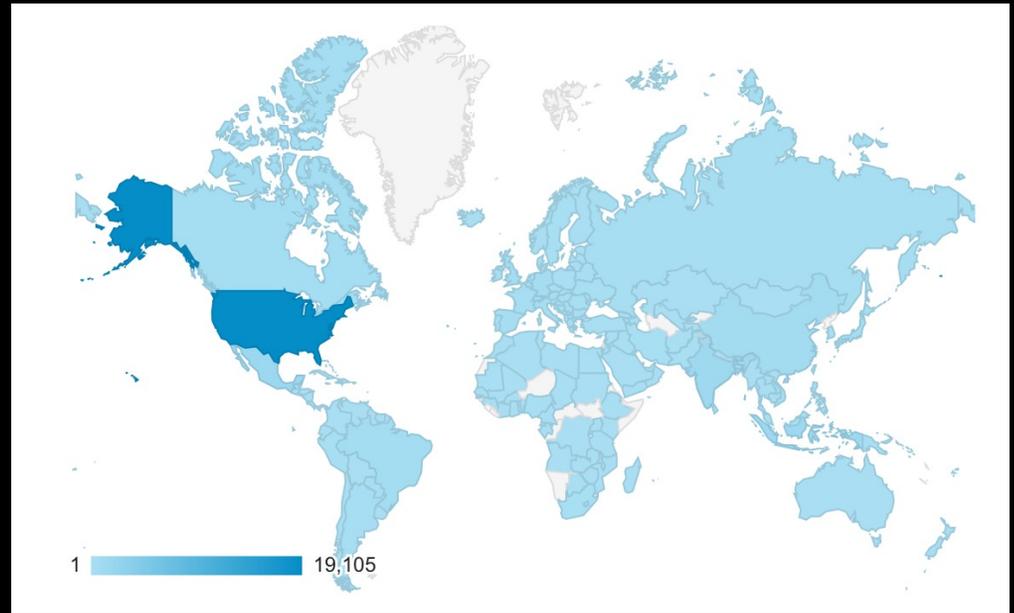
- Unites States (58%)

- México (5%)

- Indonesia (5%)

- India (4%)

- China, Brasil, Canada, UK, Germany, France (1-2%)



Collaboration

- Harvesting big dataset across collections
- Very large datasets require special handling
- More frequent as SERNEC dataset has grown

Collaboration

- Researcher requests for big data sets
 - Spatial Phylogenetics study
 - Millions of records across SERNEC collections
- Test new software
 - BELS Gazetteer
 - Used SERNEC data to test and refine BELS development

Way Forward

- SERNEC is a large, diverse and active community.
- Many on going research programs and initiatives.
- Evaluating new funding ideas
- Reach out!

Thank you!

