SERNEC - TCN: Current status, citizen science and outreach activities

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The Project

- Southeastern U.S. vascular plants
- 93 collections
- 12 states
  - 28 hubs
- 6 partners
- 4.5M specimens
Workflow

Image / Skeletal Data Capture

Transcription / Georeferencing

Mobilization / Repatriation
Data Management

• Symbiota central
• Interoperability with other tools
  • iPlant infrastructure
  • Notes From Nature
  • GEOLocate
• Preservation
  • Images (iPlant)
  • Database (iDigBio)
Open access to data

• Standards
  • Darwin Core
  • Audubon Core
  • Licensing (CC BY-NC-SA 4.0)
  • Open image formats

• Portals
Research Use of Data

• Enable research on:
  • Biogeographic, ecological, evolutionary hypotheses
  • Paleo- and neo-endemism
  • Species invasion and proliferation
  • Impacts of climate and land-use change on species distributions
  • Management plans for species recovery
  • Conservation planning and reserve selection
Broader Impacts

• Student training
  • 52 students

• High School lesson plans

• Citizen Science
  • 4 collections leveraging Notes From Nature
  • 5 WeDigBio events

• Publication
  • http://dx.doi.org/10.3732/apps.1500065
Thank you!