GCE-LTER Taxonomic Database

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GCE Information Manager

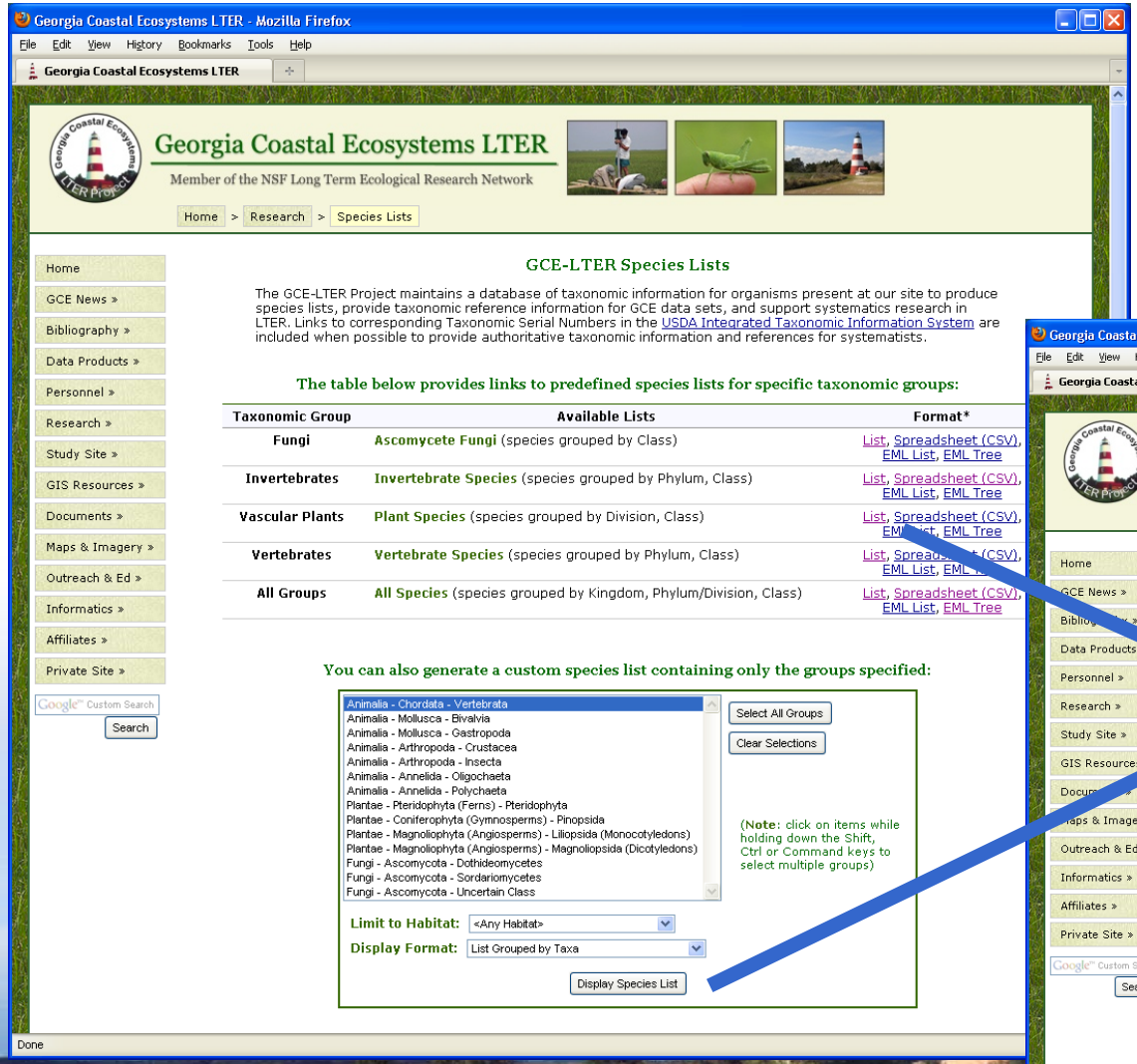
Primary Design Goals

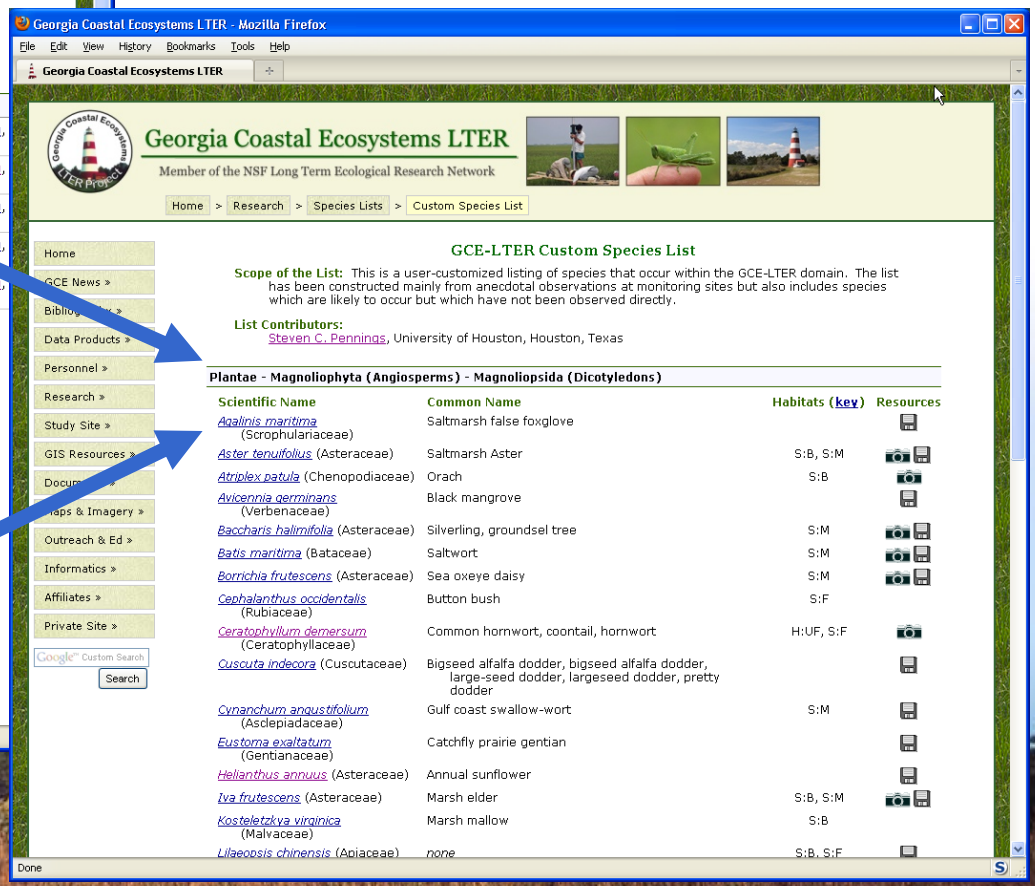
- Store general taxonomic information for plants, animals, fungi present in GCE domain *(use SIMO for bacteria)*
- Dynamically generate species lists on the web
- Store links to ancillary information *(habitats, voucher specimen, site occurrences, photos, GCE contacts)*
- Generate taxonomic coverage for data set metadata
- Link taxononic records (at species level) to authoritative sources such as ITIS

Components

- Relational database (SQL Server)
- Forms-based UI for entering/editing taxonomic info, managing web lists and page captions (Access ADP)
- Dynamic web pages (IIS/ASP)
  - List catalog page with custom list selector form
  - Species list page (formats: HTML, CSV, EML)
  - Taxonomic details page with links to ancillary info, data sets
- Code for dynamically generating EML taxonomic coverage metadata as XML fragments (SQL Views)
- ITIS data mining tools for adding/updating database records based on species/TSN search (MATLAB)

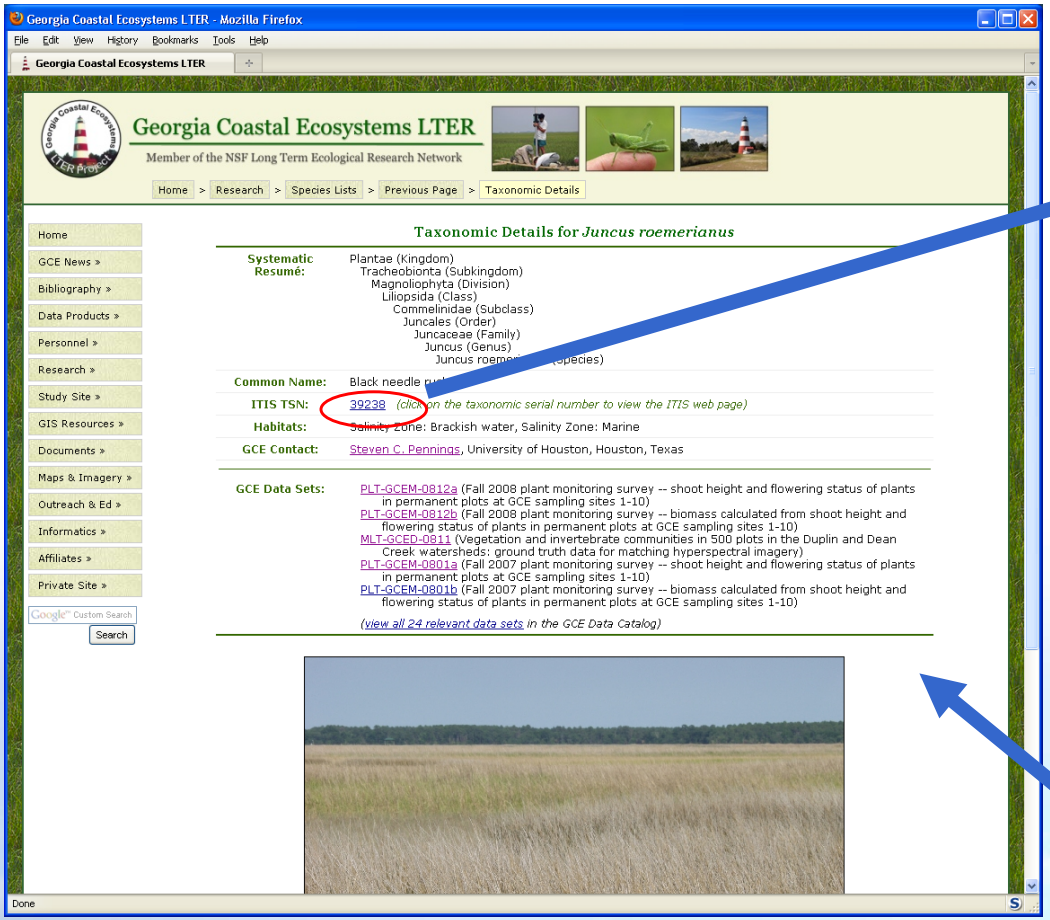
Species Lists



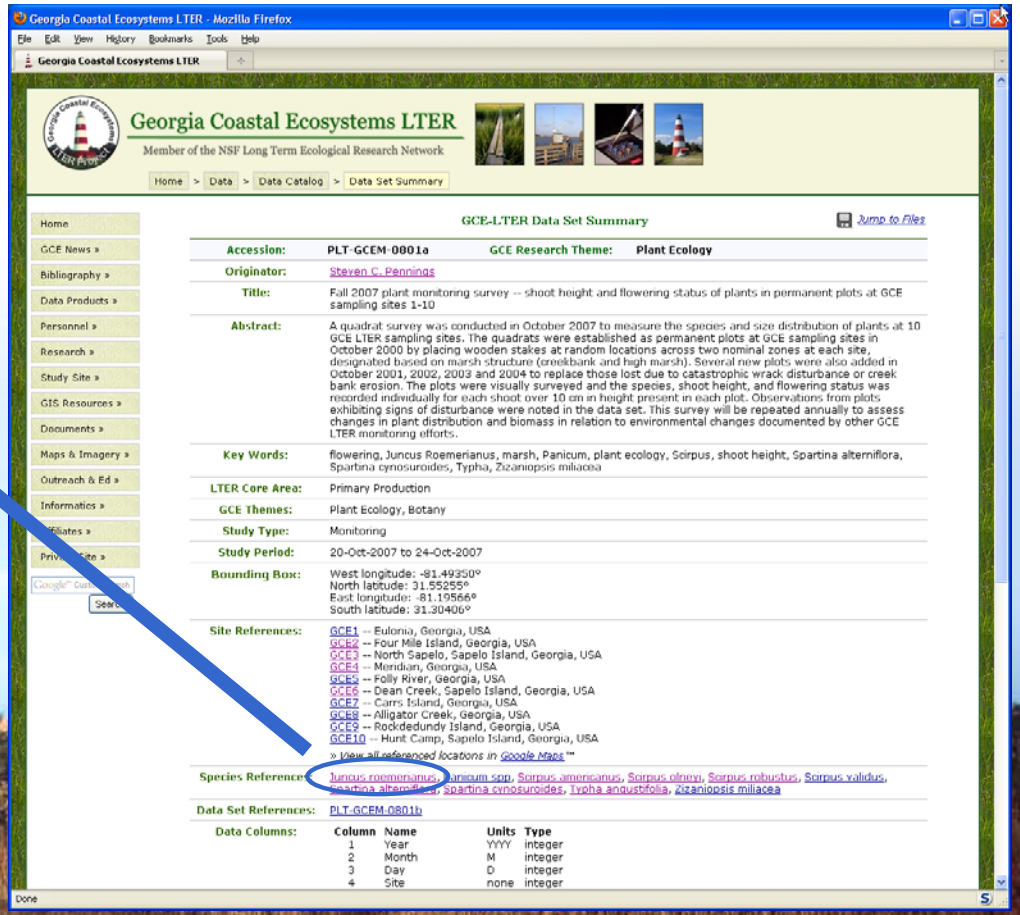


http://gce-lter.marsci.uga.edu/public/app/all_species_lists.asp

Species Details and Data Links



ITIS Report



Georgia Coastal Ecosystems LTER Project

Possible GCE Contributions

- Automatic population of shared database from ITIS (based on TSN, species binomials)
- REST web service that returns EML coverage for TSN, species binomials (SQLXML or XSLT for ITIS REST)
- Share code, design for collaborative effort