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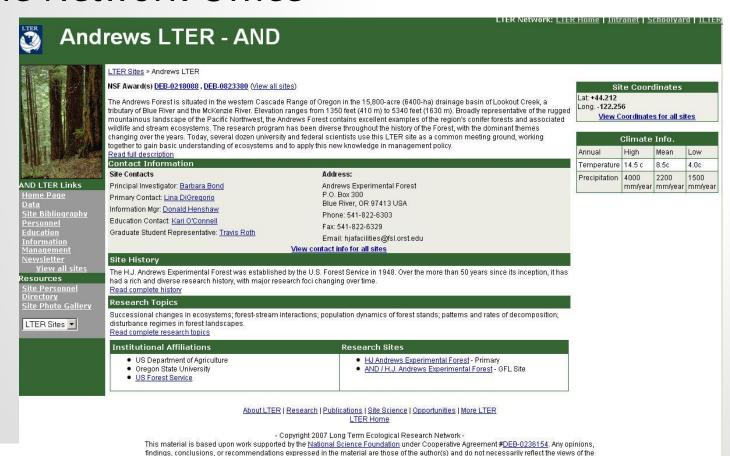
LTERMaps Intersite Project

- Goal: To develop a common internet mapping application for all LTER sites
- Started in January 2009
- Core Team Sites:
  - Andrews   Georgia Coastal   Konza
  - Bonanza   Baltimore
- Phased approach:
  - Phase 1: Network view
  - Phase 2: Site view
- Initial Funding: core team time donated

Phase 1: Data

- Discovered the wealth of information in SiteDB at the Network Office

Functionality and Applications

- Functionality Requirements
  - Simple operations, link with database, pop-up windows, add data, imbed in existing web pages, fast, zoom across imagery quickly, download data and metadata, easy to program and transfer to sites, scale-able.
- Off the Shelf Applications:
  - ESRI ArcServer Out of box Applications, samples
  - ESRI Web API's
  - Google Maps

LTER MAPS
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Phase 1Implementation

- Very specific, narrow focus
- Google Maps API
1. Developed locally, then moved to the Network Office
2. Your view into SiteDB
   1. Contact info, detailed site description, data links, site boundaries, Clim/HydroDB gage locations, weather, background imagery from Google. Downloads KML and shape files
3. Demo
   1. www.lternet.edu/sites1

LTERMaps Phase 2

- Detail site GIS information using a common interface:
- Sites can link directly from their website
- Provide a common interface for all sites
- Quality cartography, consistent across sites
- Access to best available aerial imagery
- Easy to use, won't need to be a GIS expert

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Infrastructure Ideas

- Map web services: use existing sources
- Centralized @LNO with remote manager access
- Arcmap templates for symbology /cartography
- Common look/theme for all sites
- Sites can easily add additional data
- Run on multiple browsers
- Interface that sites can use
  - update in one place
  - Ability to imbed applications/service into their website

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LTERmapS Phase 2 Timeframe

- ArcGIS Server has been installed at LNO
- Initial testing this summer
- Feedback/input from PI's
- Looking at some Network level data sets
  - Base data for look across all sites
  - EcoTrends data, ecoregions, geology, elevation, etc.
- Workshop at IM meeting in September

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