BNZ Data Management 2010



Jason Downing February 27, 2010









Accomplishments

(an annual exercise in self reflection)

 It has been a busy year as we are continually evolving and adapting to provide a high quality data management system.

- Highlight Topics
 - Network Activities
 - Business Items
 - Data
 - Web Development





Network Activities

(playing for the Olympic IM gold)

- LNO Stimulus Funding
 - Programmers, Network Data Manager, Training
- Working Groups
 - Keywords, EML, GIS
- Data Bits Editorship

Fall 2008, Spring 2009, Fall 2009

Eco-Trends Participation

Book Publication 2010





Reports and Proposals

(annual chores and maintainance)

- Annual USFS Report
- Annual NSF Report





2010 NSF Proposal Materials

- Publications Database
 - Adding recent publications
 - PDF availability
- Data file list





Data

(the widgets of my trade)

Data Growth

- 119 New Datasets (Since 2007 Site Review)
 - 31 Core Data Sets
 - TDR Archive, NPP, etc.



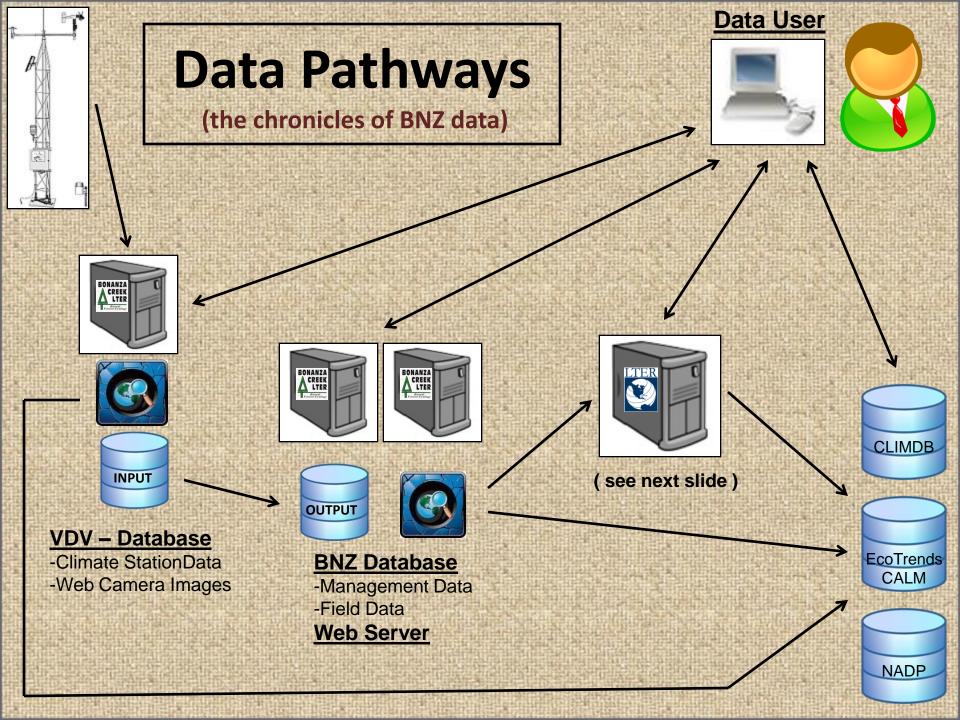
 Log Decomposition, APEX, moisture gradient, high latitude model data, vegetation, nitrogen cycling, carbon dynamics, scenarios of climate change,

Streaming Data Quantity

 660 measurements each hour at 19 sensor stations translates to 12540 new data points each hour, 300,960 new data points each day, which totals more than 100 million records last year alone!

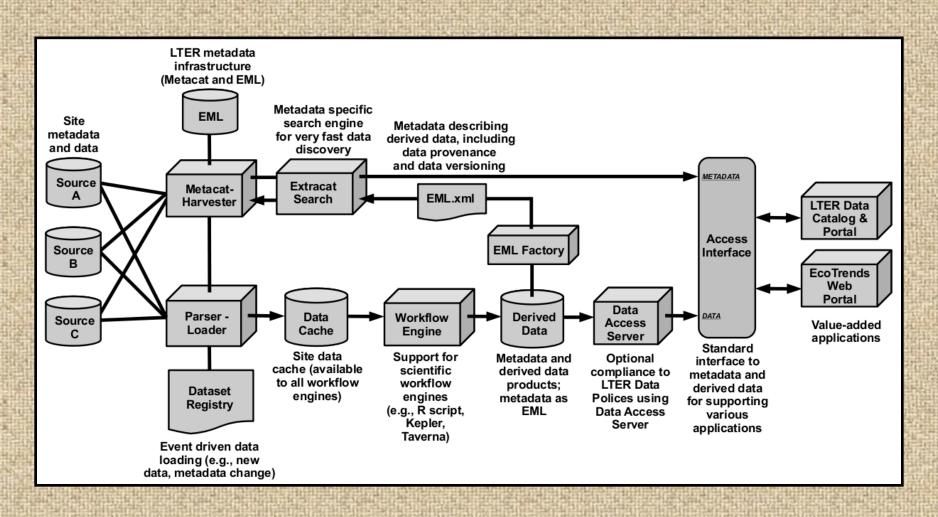






LTER PASTA Diagram

(pass the sauce and breadsticks)





Data Quality

(the devil is always in the details OR earning the gold star)



- QA/QC of Historical Core Data
 - Finishing stages of data project with Joy Clein
- Streaming Data Quality
 - Automatic Filters
 (for simple out of range type issues)
 - Manual Review by technician
 (for more complex data logger/sensor issues)
- VDV Database Reports

Metadata

(the gold plated widgets of my trade)

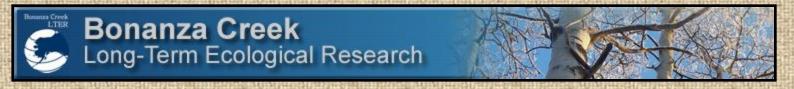
EML Script Enhancements

Keywords Project

Updating Historical Documentation

Web Site Renovations

(putting on our Sunday best for all to see)



- Re-Organization of the MENU items
- Enhanced research content
 - New text and graphics
- Enhanced Capabilities & Display
 - Site, Data, Personnel, Searching
- Added Features
 - Image Search, Google maps







Transitions

(in a time of change...in more ways then one)

 Thanks to those individuals that have contributed substantially to the BNZ LTER program but have moved on to new opportunities and challenges.

- Rebecca Koskela
- -Joy Clein

Future Plans

(look into the crystal ball)

- Continued improvements to the web content and services
- Continued education and professional development for the data manager
- Stay involved and aware of partnership opportunities at UAF and beyond

