LTER Time Line

**May 2016:**

1. Finish Data Scrubber Version 2.0 (sans climate integration)
   1. To do:
      1. ~~Get taxa dialog box up and running~~
         1. ~~Write methods for ‘create’ function~~
      2. ~~Get date conversion dialog box up and running~~
      3. ~~Get raw observations up and running~~
      4. ~~Get covariates up and running~~
         1. Use list model with checkable field
      5. ~~Get site dialog box to properly update after manually changing names~~. ~~This includes mapping the right data.~~
      6. ~~Get all logs set for info and debugging~~ (~~site~~, ~~main~~, ~~taxa~~, ~~time~~, ~~raw~~, ~~covariates~~)
      7. ~~Get database push up and running~~
         1. ~~Get database to update ‘future’ columns~~
      8. ~~Make sure query return correctly formatted data~~
      9. ~~Integrate all parts~~
         1. ~~Get program reset up and running~~
      10. ~~Load test data sets\* and check queires~~
   2. ~~Begin to populate the Database with data scrubber 2.0~~
      1. ~~Develop scripts to automate database backup~~
      2. ~~Migrate database to remote server and create SSH tunnel~~ ~~(setup access for current project members).~~

**June2016:**

1. Populate alpha version with more datasets to for testing purposes.
   1. ~~Remove records for data with errors when uploaded~~
   2. Populate beta version of database with Aldo’s requested datasets
2. Develop standard queries/ stored procedure (functions within the database that wrap SQL statements so that procedures are emitted rather than individual SQL statements i.e. good for performance).
   1. ~~Query to return all data base on global id number.~~
      1. Test on alpha (or beta) version
      2. Implement on remote database v2.0
3. Continue populating database v2.0, automating backups, and updating remote server.
4. Develop methods to perform quality control on uploaded datasets
   1. ~~Test methods~~
   2. Automate
5. Begin development of state-space models
   1. Use high quality datasets (either from database of individually chosen)
6. GOAL: Have a complete road map for R package functionality
   1. Rank by complexity
      1. ~~Least Complex~~
         1. popler Class
            1. S4 R class
            2. Methods

Tally table

Get data

* + - 1. Connector Class/Function
         1. ~~Connect to remote server as background process~~

~~I wonder if this could be turned into a dll (like a real one)~~

* + - 1. Function to invoke standard quieres/stored procedures

**July 2016:**

1. Integrate climate data into the database v2.0
   1. Test on local database copy
      1. ~~Migrate Database to include columns with the following names~~
         1. ~~Knbid~~
         2. ~~Metalink~~
         3. ~~Author~~
         4. ~~Author contact~~
   2. Once verified integrate and begin adding to remote database v2.0
2. Integrate climate data into standard queries/stored procedures
   1. Test on copy
   2. Implement on remote database v2.0
3. GOAL: Have most basic R package functions up and running (likely simple calls to stored procedures/functions)
   1. Including automatically setting up connection to remote server
4. GOAL: July 31st, completed loading of all datasets within 7 LTER sites

**August 2016:**

1. Database maintenance
   1. Assess performance on remote server
   2. Profile queries if needed
2. GOAL: Present database/ state-space models at ESA
3. GOAL: Classify and identify dataset from 4-5 more LTER’s
   1. Upload to database v2.0
   2. Quality control
   3. Backup
   4. Load to remote server
4. Being write-up of methods for data paper
   1. Update database v2.0 manual

**September 2016:**

1. Begin development of intermediate R functions
2. Being to develop methods to repopulate database from logs
   1. Create data tables from log files and original files
3. GOAL: Classify and identify dataset from 4-5 more LTER’s
   1. Upload to database v2.0
   2. Quality Control
   3. Backup
   4. Load to remote server

**October 2016:**

1. GOAL: Classify and identify dataset from 4-5 more LTER’s
   1. Upload to database v2.0
   2. Quality control
   3. Backup
   4. Load to remote server

**November 2016:**

1. GOAL: Classify and identify dataset from 4-5 more LTER’s
   1. Upload to database v2.0
   2. Quality control
   3. Backup
   4. Load to remote server
2. GOAL: Have intermediate R package functions complete

**December 2016**

1. GOAL: FINISH UPLOADING REMAINING LTER DATASETS!!!!!!
   1. Upload to database v2.0
   2. Quality control
   3. Backup
   4. Load to remote server
2. Database Maintenance
   1. Access performance
   2. Profile queries
3. GOAL: Draft of data paper