

CANON - 2014

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Configuration Management and Deployment:

- ☐ **Kevin Gomes:** Document current system for getting positions into Winfrog
- ☐ **Kevin Gomes:** Design proper Winfrog configuration to optimize view of ODSS platforms
- ☐ **Kevin Gomes:** Deploy updated ODSS to Malibu (replace with CentOS VM)
- ☐ **Kevin Gomes:** Deploy updated ODSS to Zuma
- ☐ **Kevin Gomes:** Upgrade beach.mbari.org with new code
- ☐ **Kevin Gomes:** Design more robust synchronization mechanism

Testing:

- ☐ **Kevin Gomes:** Write tests for Node.js code
- ☐ **Kevin Gomes:** Write tests for Web Application
- ☐ **Kevin Gomes:** Re-establish continuous integration
- ☐ **Kevin Gomes:** Evaluate BrowserStack and Sauce Labs for browser testing

Web Application - General:

- ☐ **Kevin Gomes:** Write browser capability check and display message if user's browser is not supported
- ☐ **Kevin Gomes:** Create capability for user's to have preferences stored that are associated with their account (MongoDB)
- ☐ **Kevin Gomes:** Create WebSocket implementation to provide mechanism for sending events to the browser
- ☐ Implement 'status' window to notify users of events in the ODSS
- ☐ **Kevin Gomes:** Investigate web analytics for ODSS (Check with Nancy about Google Analytics)
- ☐ **Kevin Gomes:** Implement capability for users to specify platforms, layers and time and space constraints and the ODSS can create a movie in the background and put in the repo.
- ☐ **Kevin Gomes:** Implement capability for the users freeze the view in the ODSS and send the URL to others so they can view

Data Policy and Security:

- ☐ **Kevin Gomes:** Implement mechanism for user's to be notified of the data policy associated with the data when they sign in to an experiment
- ☐ **Kevin Gomes:** Gather more requirements on long term authorization needs

SA - Tracking:

- ☐ **Kevin Gomes:** Fix bug where tracks are not consistently displayed
- ☐ **Kevin Gomes:** Develop mechanism to select/deselect all platforms
- ☐ Develop mechanism for users to edit platform names or maybe create aliases
- ☐ Develop mechanism where users can 'hide' a track (and unhide) while clicking on it
- ☐ Develop ingest and display mechanism to allow platform sensor data to be painted on the track

- ☐ **Kevin Gomes:** Develop mechanism that will display when a platform has not been heard from in a long time
- ☐ **Kevin Gomes:** Develop mechanism that when user mouses over section of track (point), lat lon diplays
- ☐ **Kevin Gomes:** Change polling mechanism to push over Websockets when new platform data arrives
- ☐ Develop mechanism to allow user to download track data by clicking
- ☐ Add busy indicators to platforms when they are updating their tracks
- ☐ Add capability to toggle platforms on and off by groups
- ☐ **Kevin Gomes:** Add capability in browser for user's to specify when platform was deployed and recovered
- ☐ **Kevin Gomes:** The ODSS should not show platforms if they are in recovered status (or user can turn on and off)
- ☐ **Kevin Gomes:** Develop capability for user to select two platforms and the ODSS will show range and bearing between the two
- ☐ **Kevin Gomes:** Develop mechanism to display range an bearing of platform from user's current location
- ☐ **Kevin Gomes:** Develop markers on platforms that show last date, time and position of platform
- ☐ **Kevin Gomes:** Evaluate performance of MongoDB with respect to Tracking data
- ☐ **Kevin Gomes:** Move python consumers for AMQP message into ODSS source and build and deployment
- ☐ **Kevin Gomes:** Contact MarineTraffic about service to pull vessel traffic
- ☐ **Kevin Gomes:** Display AIS tracks in ODSS
- ☐ **Kevin Gomes:** Integrate STOQS sensor tracks into ODSS UI
- ☐ **Kevin Gomes:** Create REST service for platform tracking that returns tracks in html, csv, and geojson
- ☐ **Kevin Gomes:** Create a subscription mechanism that would allow outside clients (some over low bandwidth) to receive platform messages
- ☐ **Kevin Gomes:** Create web form that will allow users to add/edit/remove platform information
- ☐ **Kevin Gomes:** Create new email ingest for that is one address, but has a form of data that specifies the platform and it's type
- ☐ **Kevin Gomes:** Add scale bar to map

SA - Mapping Service Improvements:

- ☐ **Kevin Gomes:** Develop capability for user's to specify min max on color scales for maps
- ☐ **Kevin Gomes:** Add capability for users to upload their "mappable" data sets
- ☐ **Danelle Cline:** Create service that runs under tomcat and when the erddap datasets.xml files change, it synchronizes the mapserver, tilecache and layers catalog
- ☐ **Danelle Cline:** Create documentation that user can read on how to format data for upload and display on the ODSS maps
- ☐ **Kevin Gomes:** Develop capability for user to 'lock' layer so it does not change over time
- ☐ **Kevin Gomes:** Develop indication to show what the date and time of the currently visible data set (map) is.

- ☐ Develop mechanism to allow users to add KML straight to the map and it gets uploaded and shared

Planning Service Implementation:

- ☐ **Kevin Gomes:** Add "Planning" layer that when select (and user logged in) the OpenLayers drawing becomes available
- ☐ **Kevin Gomes:** Add back end storage for planning geometries
- ☐ Develop mechanism to allow users to click on points and have it calculate distance. Could just be part of planning too
- ☐ **Kevin Gomes:** Integrate views of backend planning geometries into ODSS
- ☐ Design architecture for allowing resources to be specified and utilized for platforms (i.e. can an AUV go the distance with current battery)
- ☐ Create mechanism to allow user's to draw 'keep out' zone and warn when plans violate those
- ☐ Situational awareness (tracks and maps) should be available during planning
- ☐ Implement mechanism to keep plans 'private' until user wants to share them
- ☐ Create sharing mechanism where plans can be shared to different users or to the entire experiment
- ☐ Only one plan should be designated as the 'operational' plan
- ☐ Integrate virtual drifter tool from JPL for planning purposes
- ☐ The planning view should be individual for each day (i.e. each day's plans are different)
- ☐ Users should be able to view planned tracks against actual tracks
- ☐ Implement backed end constraint planner for experiment
- ☐ Integrate resources calendar with DMO calendar
- ☐ Investigate if the resource calendar (or other stuff) should be integrated with expedition database during overhaul

Experiment Management:

- ☐ **Kevin Gomes:** Choose/create backend data store for repository catalog
- ☐ Create form(s) to allow the user to specify platforms and layers they want in the experiment
- ☐ **Kevin Gomes:** Implement ODSS integration of drop down and catalog view rendering
- ☐ Create a 'summary' page that details out the summary of the experiment and the hypothesis
- ☐ Create a daily planning page that people can edit

Samples:

- ☐ Work with Francisco to define what sample management actually means
- ☐ Defined query mechanism to look for samples based on location and time. This should go across experiments too.
- ☐ **Kevin Gomes:** Design form for ODSS to allow users to enter sample data
- ☐ **Kevin Gomes:** Use the sample information gathered from Tim, Francisco and Mike/Julio to design REST services and storage in MongoDB
- ☐ **Kevin Gomes:** Display sample information on ODSS
- ☐ Develop mechanism to link the samples together (i.e. one samples was taken from a parent sample)

- ☐ Implement method to allow users to tag samples that need further processing

Data Repository and Catalog:

- ☐ **Danelle Cline:** Define interface requirements for data sets so that they may be able to be imported into ERDDAP
- ☐ **Mike McCann:** Define interface requirements for data sets so that they may be able to be imported into STOQS
- ☐ **Danelle Cline:** Define interface requirements for data sets so that they may be able to be imported into THREDDS
- ☐ Ensure there is a backup/restore mechanism for the repository that can be easily accessed
- ☐ Enable method to 'lock down' data and products after an experiment (and unlock by experiment organizer)
- ☐ Create method for users to load their data and provide provenance while entering
- ☐ Implement catalog method to enable search of the data repository
- ☐ Implement mechanism for users to comment on data and products
- ☐ Move data repository view to it's own pane
- ☐ Implement mechanism to allow users to specify services (i.e. external resources) in the repository
- ☐ Implement RSS type notification method to allow users to be notified of changes to items in the repository
- ☐ Develop method to track history of the data in the repository (changes, adds, deletes)
- ☐ Investigate Graph Databases for repository or other repository mechanism (like Solr)
- ☐ Develop mechanism to let user's create a top level 'curated' list of data products for an experiment

Collaboration:

- ☐ **Kevin Gomes:** Expand observation logging service to have more capabilities (i.e. chat)
- ☐ **Kevin Gomes:** Implement logging entry form in ODSS to allow entry via browser
- ☐ **Kevin Gomes:** Implement logging entry via email
- ☐ Implement tagging for log entries
- ☐ Implement query mechanism for log entries (date, time, location, author, tag)
- ☐ There should be separate 'threads' for each platform
- ☐ **Kevin Gomes:** Setup crawler to pull emails and attachments from the list server
- ☐ **Kevin Gomes:** Create datastore for entries and attachments
- ☐ **Kevin Gomes:** Develop Collaboration viewer for ODSS
- ☐ **Kevin Gomes:** Choose backend chat service (Openfire?)
- ☐ **Kevin Gomes:** Develop front end integration into the ODSS
- ☐ **Kevin Gomes:** Create linkage capability with drawn geometry with chat entry.
- ☐ **Kevin Gomes:** Create mechanism to pull chat attachments into repository

Mobile Application:

- ☐ **Kevin Gomes:** Overhaul observation logging app and add features of ODSS (should operate offline and send observations when reconnected)
- ☐ **Kevin Gomes:** Develop mechanism for users to be able to specify when a platform was deployed and recovered
- ☐ Fix bug when switching from portrait to landscape you lose entries
- ☐ Add function to view the current location of all platforms (visual and text)

STOQS:

- ☐ **Mike McCann:** Develop mechanism so the ODSS can request the creation of a new STOQS database
- ☐ **Mike McCann:** Develop automated mechanisms to fire up when a dataset that meets the interface requirement is added to the ODSS, it gets pulled into STOQS