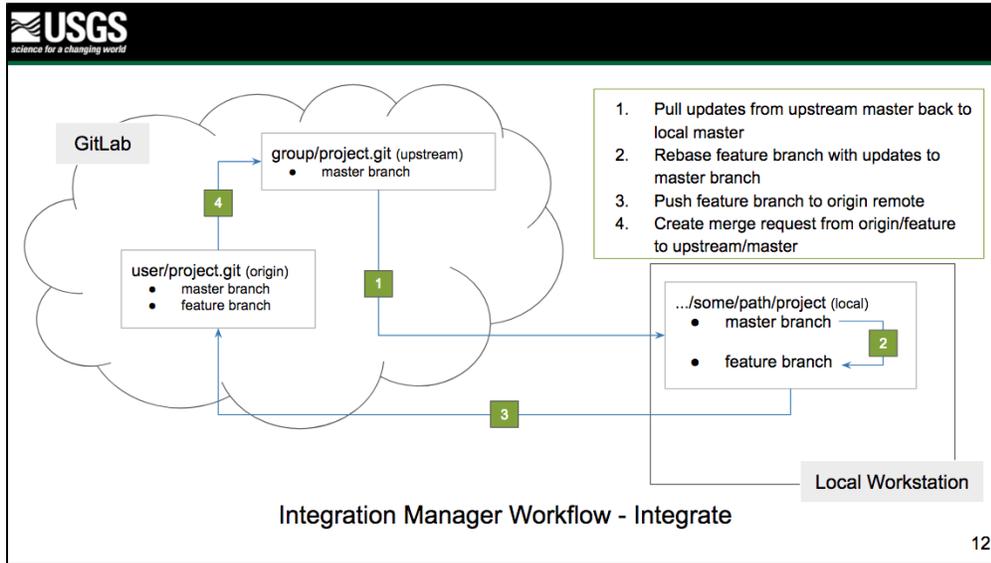# CDI Collaboration Area Activity

Here's another installment of all the topics being explored in the CDI Collaboration Areas. I'll get up to date yet!

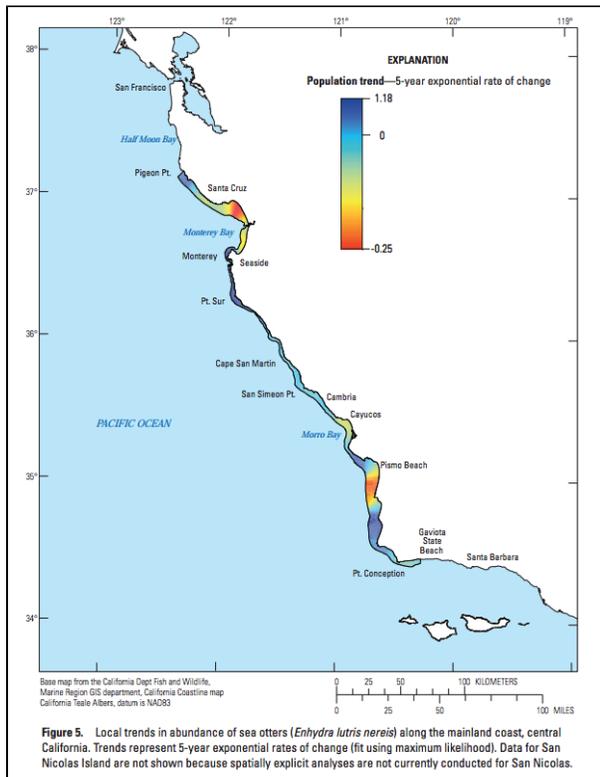## 11/2/17 Software Development Cluster - How do we use version control?

The Software Development group discussed how people use github or other version control, for example, regarding release schedules and when in the dev cycle do releases begin? Eric Martinez led this conversation with a presentation on how the GHSC (Geologic Hazards Science Center) is using gitlab. Slides available to Dept. of Interior users.



*Examples of using GitLab*

## 11/6/17 Metadata Reviewers - learning about different type of specialized metadata - the Biological Data Profile

The Metadata Reviewers group had earlier decided to learn together about different types of specialized metadata. Pai and Erika shared examples of using the Biological Data Profile for data from Sea Otter Surveys. (See Western Ecological Research Center Approved Data Releases) Read more.

**Figure 5.** Local trends in abundance of sea otters (*Enhydra lutris nereis*) along the mainland coast, central California. Trends represent 5-year exponential rates of change (fit using maximum likelihood). Data for San Nicolas Island are not shown because spatially explicit analyses are not currently conducted for San Nicolas.

*Where to go to find Sea Otters... Figure from a publication supported by Sea Otter Survey Data that is documented with the Biological Data Profile.*

## 11/7/17 DevOps - USGS Git Hosting News, Content Delivery Networks

The DevOps meetings continue to bring us explanations of new and evolving capabilities available to groups in the USGS, as well as opportunities for me to learn new acronyms.

- **Intro USGS Git Hosting Platform** (Eric Martinez). Slides available to Dept. of Interior users. Questions Comments Feedback: GS Help GIT: gs_help_git@usgs.gov.
- **Announcing CHS CDN/WAF Service  (Cloud Hosting Solutions) (Content Delivery Network) (Web Application Firewall)** (Jonathan Russo). This is a managed service intended for people who have a public facing internally hosted site that want to utilize Cloudfront.
- **GIT Hosting and Version Control** (George Rolston). George presented code.chs.usgs.gov and gitlab-ci which is currently running and available for use. If you are not aware of what gitlab-ci is, it is a great time to learn how you can automate your builds with nothing more than a commit to master on code.chs.usgs.gov (CI = Continuous Integration)
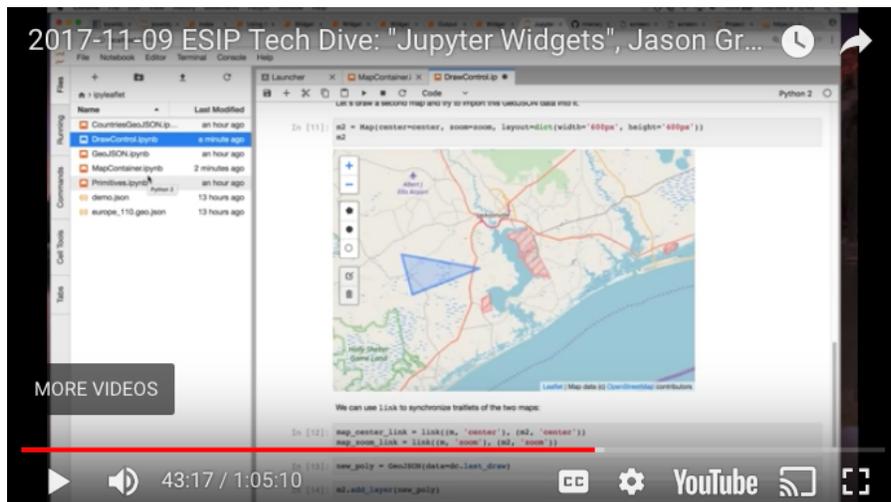
Access more information at the DevOps wiki page.

## 11/9/17 Semantic Web Working Group - a USGS triple store

This is the place you can go to learn about user stories for a USGS triple store, picking a system of persistent identifiers for linked data components, and choosing between 303 URIs and hash URIs. We are all learning together!

## 11/9 Tech Stack Working Group - Jupyter Widgets

"Jupyter Widgets": Jason Grout, Bloomberg. (aka ipywidgets) enables building interactive GUIs for Python code using standard form controls (sliders, dropdowns, textboxes, etc.), as well providing a framework for building complex interactive controls such as interactive 2d graphs, 3d graphics, maps, and more.

See the recording.

## 11/13 Data Management Working Group - "Plan"

The focus was the Data Management Theme: Plan, and the group welcomed speakers on three topics:

- Guidance on how to release USGS model output files – Fran Lightsom
- Examples of building data management plans as code – Sky Bristol
- Data Management activities in the Water Mission Area – Linda Debrewer

See the slides at the DMWG meeting page.

## 11/29 Open Source Coffee Talks - estimating software development tasks

Estimating Software Development Tasks. Discussion: "What approach has worked to best determine when a (software development) task will be completed on time, within scope, and within budget? Single point estimating? Three Point Estimating? Story Point Estimating? 50%-90% Estimating? Padding your initial thought by a factor of 2,4,8 estimating?" The group discussed these options and also created a new #projectmanagement slack channel on USGS slack.

Learn more about the group at their wiki page.

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More CDI Blog posts