



California GIS Council Workgroup Report

Workgroup: National Hydrography Dataset Workgroup page*: http://cgia.org/cagiscouncil/workgroups/hydrography/ Workgroup Chair: Jane Schafer-Kramer (jane.schafer-kramer@water.ca.gov)	Report Date: June 14, 2018
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*See the workgroup page for workgroup charter, members, contact information, and prior reports.

Requests for Council Action

None at this time

Status Update

Members of this workgroup regularly interact as part of the ongoing work of the NHD Stewardship Program. (We have not held a stand-alone CA GIS Council NHD Workgroup meeting.)

As this fiscal year ends the NHD Stewardship Program is completing its second year. Our editing work within Hydrologic Region 18, which covers most of California, has been temporarily slowed; USGS has locked most of the region for editing while their staff prepare it for upload to the NHDPlus High Resolution dataset. This work is expected to be completed sometime this fall, after which NHDPlus High Resolution for Region 18 will be released in beta. While this has interrupted our editing workflow, there is an up-side: USGS will have already resolved many connectivity and network integrity issues when we resume our editing work in Region 18.

Under contracts with DWR, the Geographic Information Center of CSU-Chico and the Center for Geographic Studies at CSU-Northridge have checked out and are editing four of the California sub-basins at the 1:24,000 scale, including all feature classes of the NHD, following the California Business Rules. There is one DWR editor actively working on a subbasin using the same business rules as our contractors. Three other DWR staff have approval by USGS to begin editing work, and are currently busy with other tasks; four others are in training. One is working on some derivative layers (Major Rivers, and Major Rivers & Creeks) to be added to the California Natural resource Agency Open Data platform <https://data.cnra.ca.gov/>. Another DWR staff is working on a job tracking application and new and improved public web map. U.S. Forest Service has just checked in some work in the Plumas National Forest that was based on LiDAR data using the NHD conflation tools. This work is still under review by USGS. Work continues with the Los Angeles County storm drain data which is being incorporated into the NHD by Los Angeles Department of Public Works staff using the standard editing process.

We alerted USGS to an error we discovered in the latest statewide download of the NHD; a section of flowline on the Sacramento River in Glenn County is missing. They will fix this in the next release of the statewide download but they have not given us a date for that release. The error does not show up in the other products available for download.

Carol Ostergren (USGS) and Jane Schafer-Kramer (DWR) attended the [California Tribal Water Summit](#) held on April 4-5 at the McClellan Conference Center. We staffed an information table and had the opportunity to chat with many tribal representatives and gave a presentation on NHD at the GIS session, inviting them to contribute their knowledge of the local water features.

Jane gave a presentation on NHD and the California Stewardship effort at the Roundtable meeting of the Surface Water Ambient Monitoring Program (SWAMP) at the CalEPA building on April 10; we received a follow-up contact requesting that more monitoring stations be included in the NHD, with reach codes. We are adding this to our future work plans.

A new Markup Application has been released by USGS that provides everyone the opportunity to suggest edits, or "markups", to the NHD, WBD, and NHDPlus HR. Anyone with a gmail account can suggest corrections and improvements to the data. The application has been designed to work in the Chrome Web Browser only. Suggested edits will be reviewed by the USGS and the NHD state stewards before they are approved for incorporation into the NHD or WBD datasets and future NHDPlus HR Refresh products. Markup review and status changes will be handled through the Markup Reviewer tool - ArcGIS Add-in tool available to NHD and WBD stewards and editors.

<https://edits.nationalmap.gov/markup-app>

Joel Osuna (CSU-Northridge Center for Geographic Studies) and Jane Schafer-Kramer will present a talk on California NHD Stewardship at the Esri User Conference on July 12 at 1 p.m.

Drew Decker (USGS), Joel Osuna, Erik Fintel (CSU-Chico Geographic Information Center) and Jane Schafer-Kramer will present a full-day workshop on NHD Applications on October 9 at the GIS-Pro & CalGIS 2018 event in Palm Springs. <https://gisprocalgis2018.sched.com/> The workshop is included with the event registration, and there is an option to register just for the workshop. On October 10, immediately following the plenary session, we will present a 90-minute session on NHD.

Jane plans to launch an NHD User Group later this year, offering webinars and updates via an email listservice. An announcement will be sent through the GIS Council communications; stay tuned.

Any organization that wishes to participate in the NHD Stewardship Program by contributing datasets and/or becoming editors should contact Jane at jane.schafer-kramer@water.ca.gov or at 916-653-4441.

Legislative/Policy Update

The Memorandum of Understanding between DWR and USGS has been approved internally by DWR and is still in USGS internal review.

Next Actions & Key dates

- Get the NHD Stewardship MOU signed (no deadline date.)
- Members will continue coordination activities.
- Presentation at 2018 Esri User Conference; workshop at GISPro & CalGIS 2018.
- DWR will continue development of a more robust NHD status application that includes planned future work.
- Continue outreach activities to partner with counties, regional agencies, and tribes to incorporate local knowledge into the NHD.
- Participate in the effort led by the Delta Conservancy to create the Delta Aquatic Resources Inventory

Action	Key Date
Finalize MOU (awaiting action by USGS)	open
Establish NHD Stewardship presence at GISPro-CalGIS 2018 event, October 9-12, Palm Springs	TBD
Meet with USGS and other partners and potential partners at the Esri User Conference	July 2018
Delta Aquatic Resources Inventory meeting	June 2018

Documents and Attachments



The latest version of the California Business Rules for editing the NHD will always be posted on the program's website. These updates address issues faced by the editors as they are discovered.

The California NHD Stewardship Program website is: <http://www.water.ca.gov/waterdatalibrary/NHD/index.cfm>

Notes

Any organization that wishes to participate in the NHD Stewardship Program by contributing reference data and/or becoming editors should contact Jane at jane.schafer-kramer@water.ca.gov or at 916-653-4441.