



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: December 14, 2017
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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.) The NHD Stewardship Program is nearly halfway through its second year; two Department of Water Resources (DWR) staff are involved in editing work on a part-time basis, and four more are on track to complete their training by the end of this calendar year. Contracts are in place with the Geographic Information Center of CSU-Chico and the Center for Geographic Studies at CSU-Northridge to update 120 of the California sub-basins at the 1:24,000 scale, including all feature classes of the NHD. This work will take place through 2021. We have a handshake agreement with the U.S. Forest Service (USFS) whereby USFS editors will update the feature classes within their administrative boundaries. USFS will be incorporating appropriate features from the Sierra Nevada Meadows Dataset as SwampMarsh features into the NHD. Some of this work may occur outside of USFS administrative boundaries. For more information on the Sierra Nevada Meadows Dataset please visit <https://meadows.ucdavis.edu/>.

Watershed Boundary Dataset (WBD) updates will be addressed later, after the NHD work is completed to the 1:24,000 scale, although interim adjustments may be made by USFS as required for their work.

Work continues with the Los Angeles County storm drain data which is being incorporated into the NHD by USGS using the established editing process. To be clear, there is no simple bulk upload procedure for the NHD; all editing work must be done using the USGS tools and procedures to ensure integrity of the database. Standards for the incorporation of LiDAR-derived data into the NHD are still being developed by USGS and other state partners that have experience with this work. 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.

USGS has incorporated Hydrologic Region 16 (which crosses the CA-NV border) and HR 15 (which crosses the CA-AZ border) into NHDPlus High Resolution beta. Subregion 1801 (which crosses the CA-OR border) is in the process of being uploaded to NHDPlus Hi-Res in order to allow USGS to conduct before-and after studies on the removal of several dams in the Klamath. The remainder of California is scheduled for upload to the NHDPlus Hi-Res in late 2018 or 2019. DWR editors will be performing error fixes and QC work on as much of Region 18 as we can prior to this upload.

Contract work for the Department of Fish & Wildlife has been completed by the CSU-Chico and CSU-Northridge centers. Some of this work updated only Lake/Pond and Reservoir features; other subbasins underwent comprehensive updates. The subbasins having undergone this work and other work-in-progress may be viewed on this web map: <https://tinyurl.com/ca-nhd-2017>. This map also shows the subbasins that were edited as part of the NHD pilot project in 2014-15 by the CSU shops. To date, the CSU shops have completed 132 editing jobs involving 128 subbasins; 85 of those jobs addressed only LakePond and Reservoir features.



Updates to the California Business Rules for editing the NHD are underway and the latest revision will always be posted on the program's website: <http://www.water.ca.gov/waterdatalibrary/NHD/index.cfm>. These updates address issues faced by the editors as they are discovered.

Finally, the key person at DWR who was most instrumental in making the NHD Stewardship program a reality for California, Greg Smith, is retiring after 27 years of State service. We very much appreciate his persistence and dedication to bringing this program to fruition and wish him a long and happy retirement.

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.
- A presentation proposal has been submitted for 2018 Esri User Conference; we will prepare a similar one for CalGIS/GISPro 2018.
- DWR will update the interim status map and continue development of a more robust NHD status application that includes planned future work.

<https://dwr.maps.arcgis.com/apps/webappviewer/index.html?id=6bd916288cd44e1c9248b52687d95d59>

- Continue outreach activities to partner with counties, regional agencies, and tribes to incorporate local knowledge into the NHD.

Action	Key Date
Finalize MOU (awaiting action by USGS)	open
Submit presentation proposal for CalGIS/GISPro 2018 event	TBD

Documents and Attachments

List of documents (reports and recommendations) attached to this status report. Can be a URL

- <https://tinyurl.com/ca-nhd-2017>.
- <https://dwr.maps.arcgis.com/apps/webappviewer/index.html?id=6bd916288cd44e1c9248b52687d95d59>
- <https://meadows.ucdavis.edu/>

Notes

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