

New Water Content in ArcGIS Online

Daniel Siegel, Living Atlas Team

ESRI USER CONFERENCE

Updates to Existing Services
Analysis Services
National Water Model

New Services
Change in Storage
ET and PET

What's next?



New Regions Added

10m resolution data from NHDPlus High Res

- ✓ Hawaii
- ✓ Puerto Rico
- ✓ U.S. Virgin Island
- ✓ Guam



It's the first 10m resolution data added to these services!

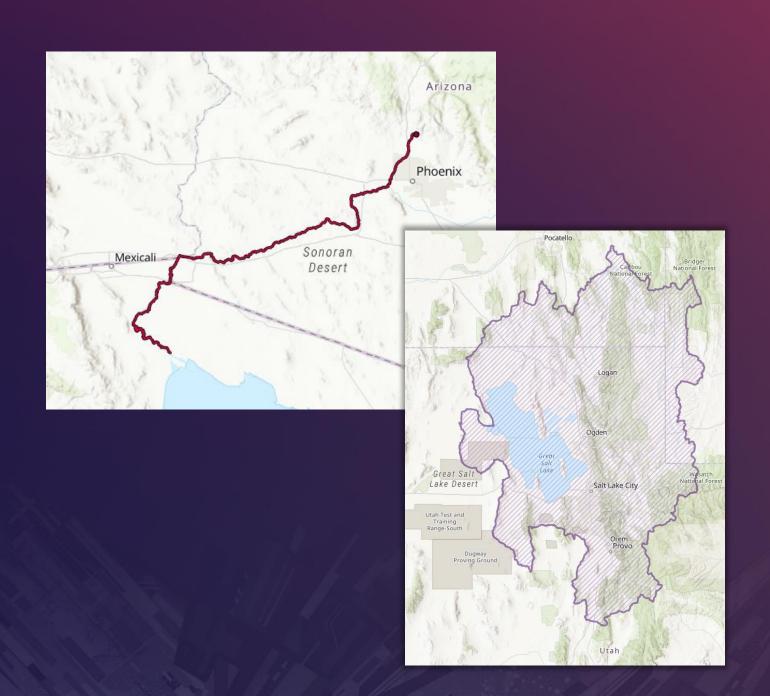


Coverage Map

Data Fixes

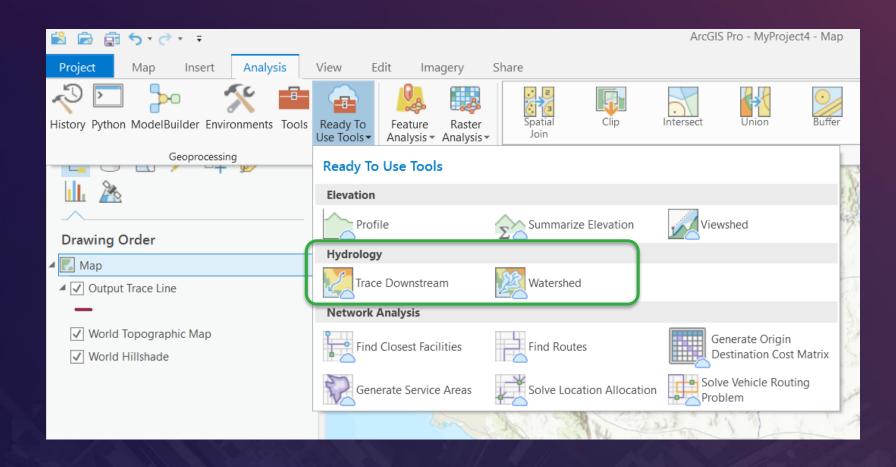
Based on User Feedback

- Great Basin
- Lower Colorado Basin



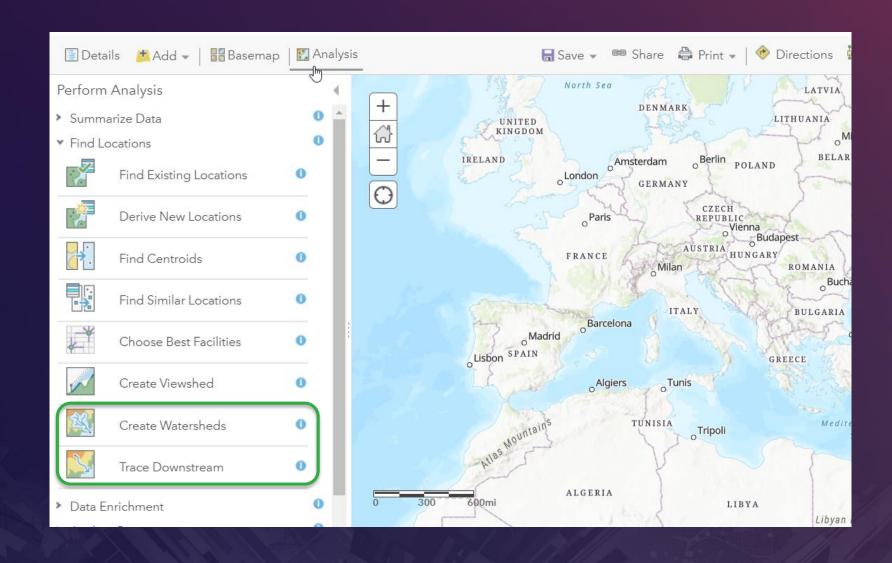
How to Use the Analysis Services

In ArcGIS Pro

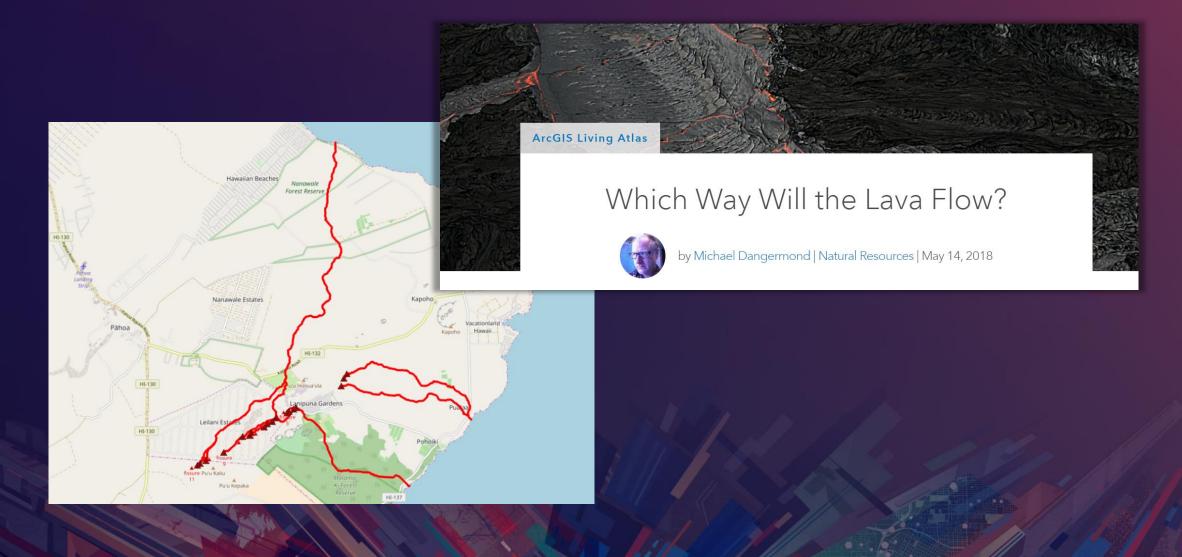


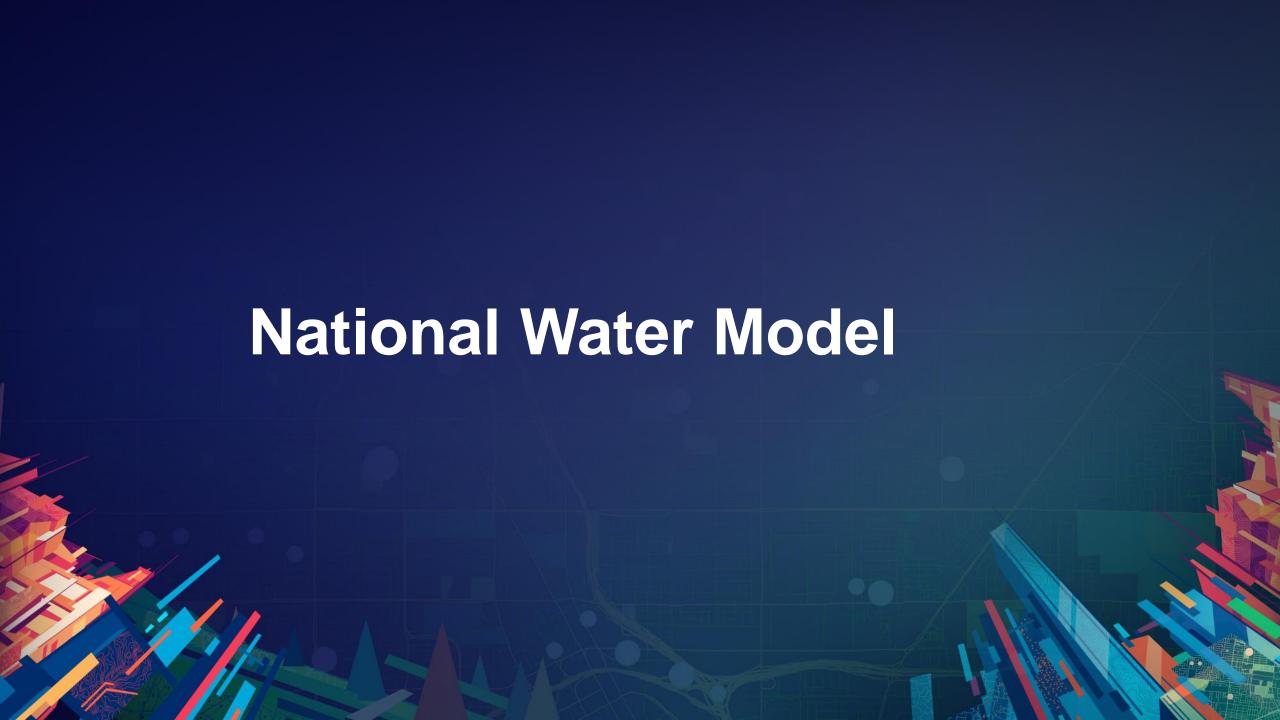
How to Use the Analysis Services

In ArcGIS Online



Try the new lesson at learn.arcgis.com



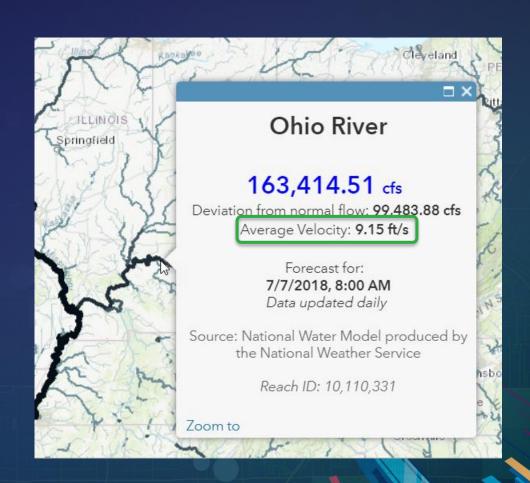


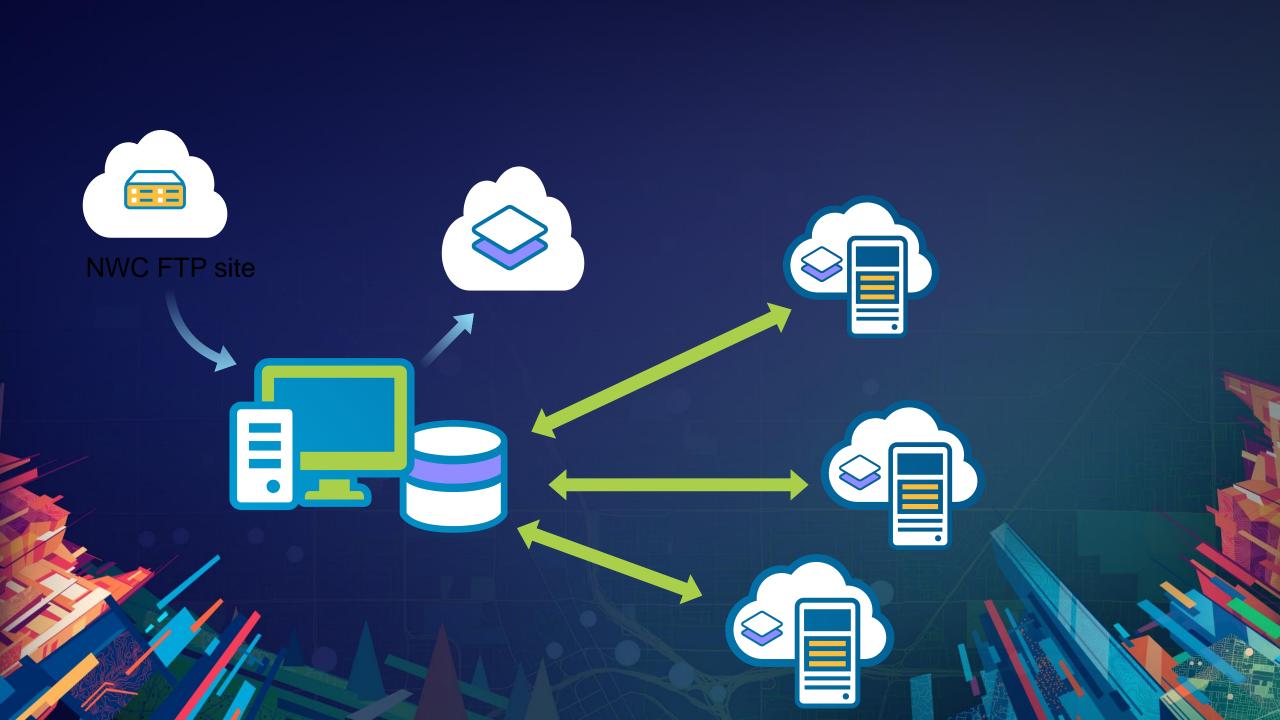
National Water Model

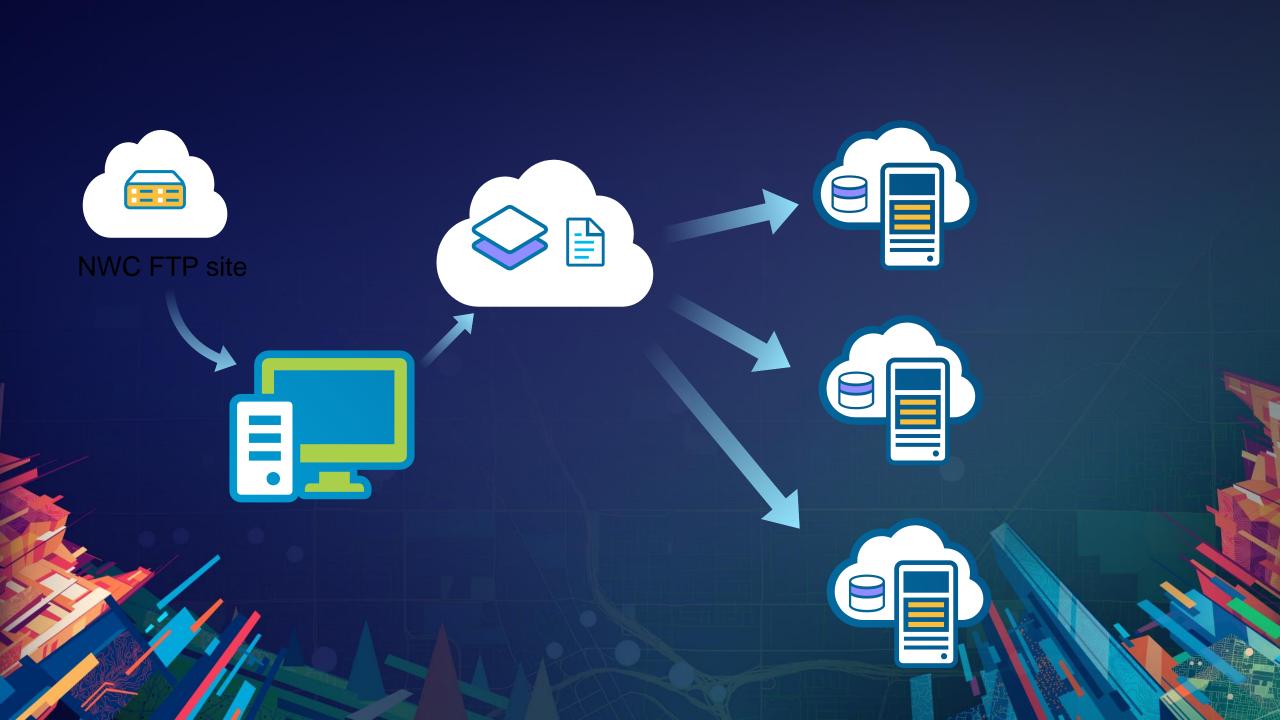
Short-term forecast extended to 18 hours

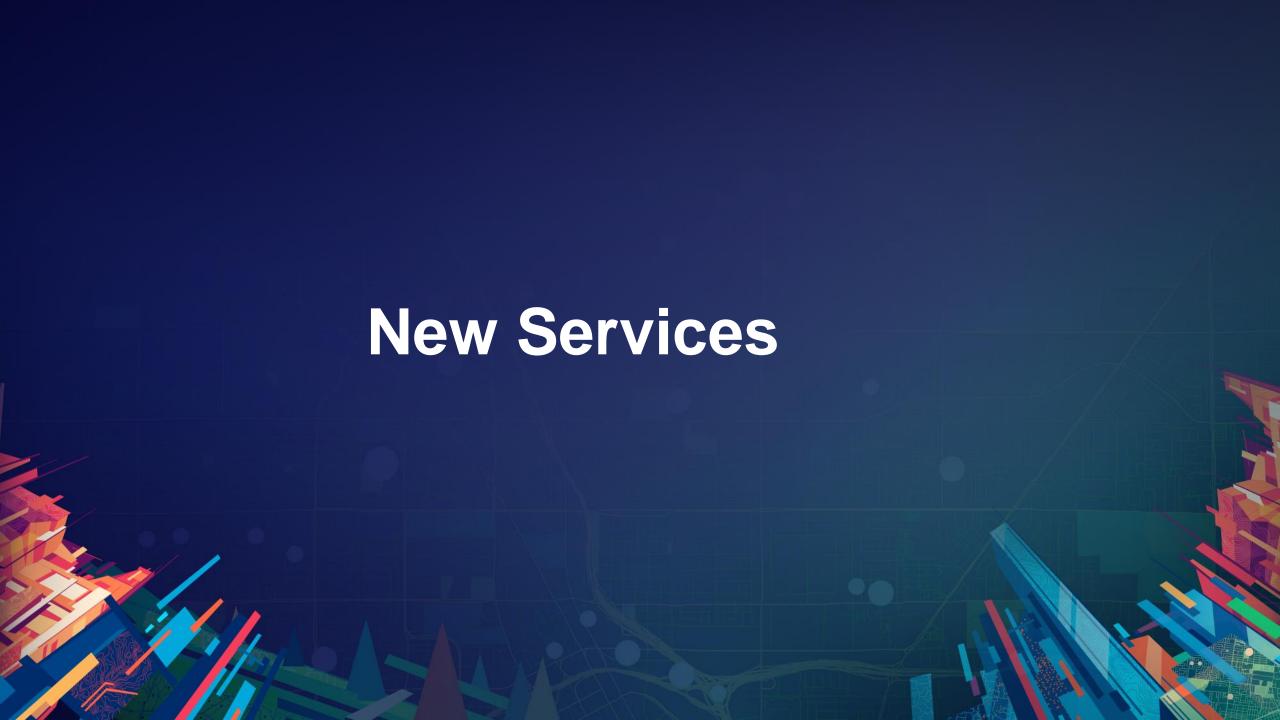
Velocity estimate added

New, more scalable architecture









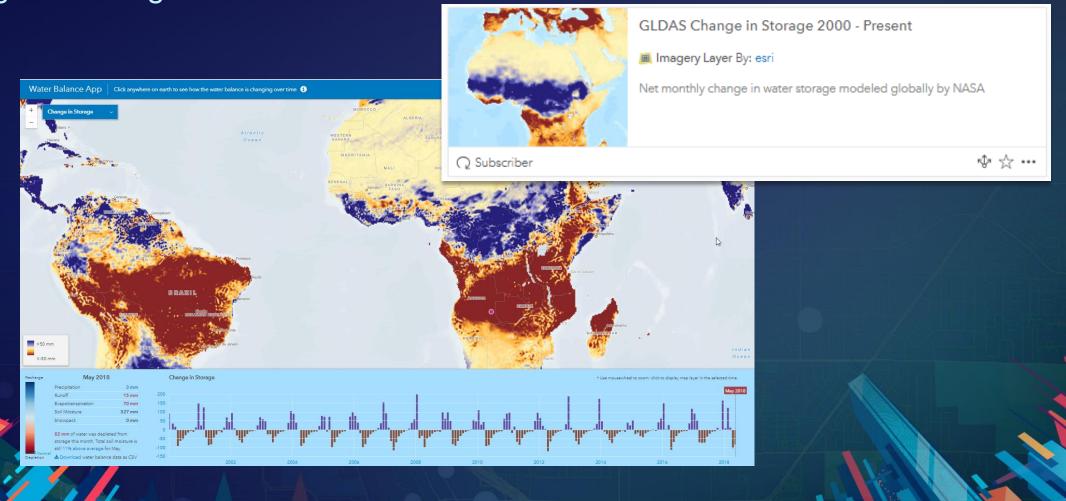
New Services

Evapotranspiration Image Service



New Services

Change in Storage





What's Next?

World Hydro Basemap as Vector Tiles

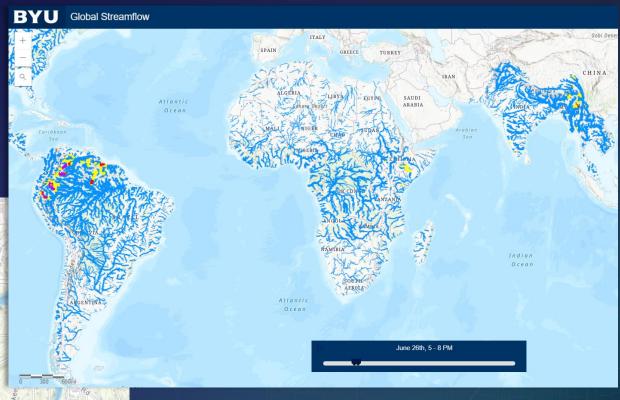




What's Next?

(Inter)National Water Model





What's Next?

More Stream Gauges



Live Stream Gauges Service Contributors

Organization	Number of	URL	
Organization	Gauges		
United States Geological Survey (USA)	10,200	http://waterdata.usgs.gov/nwis/rt	2014
National Weather Service (USA)	8,200	http://water.weather.gov/ahps/index.php	2014
Washington State Department of Ecology (USA)	61	https://fortress.wa.gov/ecy/wrx/wrx/flows/regions/state.asp	2014
San Joaquin County (USA)	4	https://sanjoaquin.onerain.com/home.php	2015
Maricopa County Flood Control District (USA)	130	http://www.fcd.maricopa.gov/Weather/Rainfall/streamflow.aspx	2015
Minnesota Department of Natural Resources (USA)	156	http://www.dnr.state.mn.us/waters/csg/index.html	2015
PEGELONLINE (Germany)	596	https://www.pegelonline.wsv.de	2015
Bureau of Meteorology (Australia)	1720	http://www.bom.gov.au/waterdata/	2015
Horizons Regional Council (New Zealand)	67	http://www.horizons.govt.nz/	2015
Enviroment Agency (England)	2550	https://flood-warning-information.service.gov.uk/	2016
Nebraska Department of Natural Resources (USA)	108	http://data.dnr.nebraska.gov/RealTime/	2016
Iowa Flood Center (USA)	182	http://ifis.iowafloodcenter.org/ifis/	2016
Oregon Water Resource Department (USA)	220	http://apps.wrd.state.or.us/apps/sw/hydro_near_real_time/	2016
Dartmouth Flood Observatory (Global)	310	http://floodobservatory.colorado.edu/DischargeAccess.html	2016

Last Updated: 11/30/16

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See Me Here

WORKSHOP	LOCATION	TIME FRAME
 Using Python for Data Updates to Web Services 	• SDCC - Room 09	• Tuesday - 10:00 to 11:00am
 Best Practices for Publishing Services, Layers, and Maps 	• SDCC – Room 10	 Tuesday – 1:00 to 2:00pm
 Using the Living Atlas for Environmental Science 	• SDCC - Room 09	 Tuesday – 2:30 to 3:30pm
 Best Practices for Publishing Services, Layers, and Maps 	• SDCC – Room 02	 Thursday – 4:00 to 5:00pm