

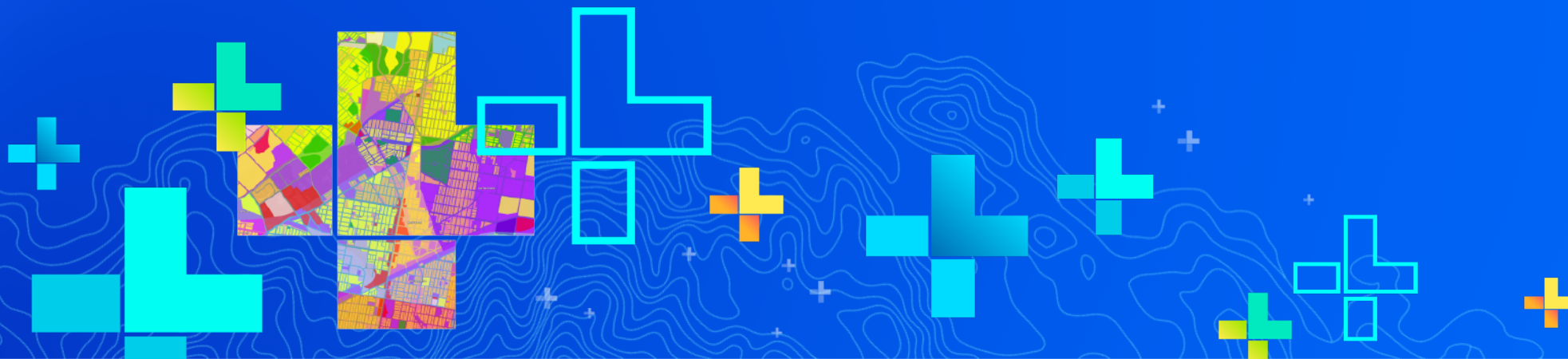


What's New for Water in ArcGIS Living Atlas of the World?

Dan Pisut

Living Atlas Content Lead

SEE
WHAT
OTHERS
CAN'T

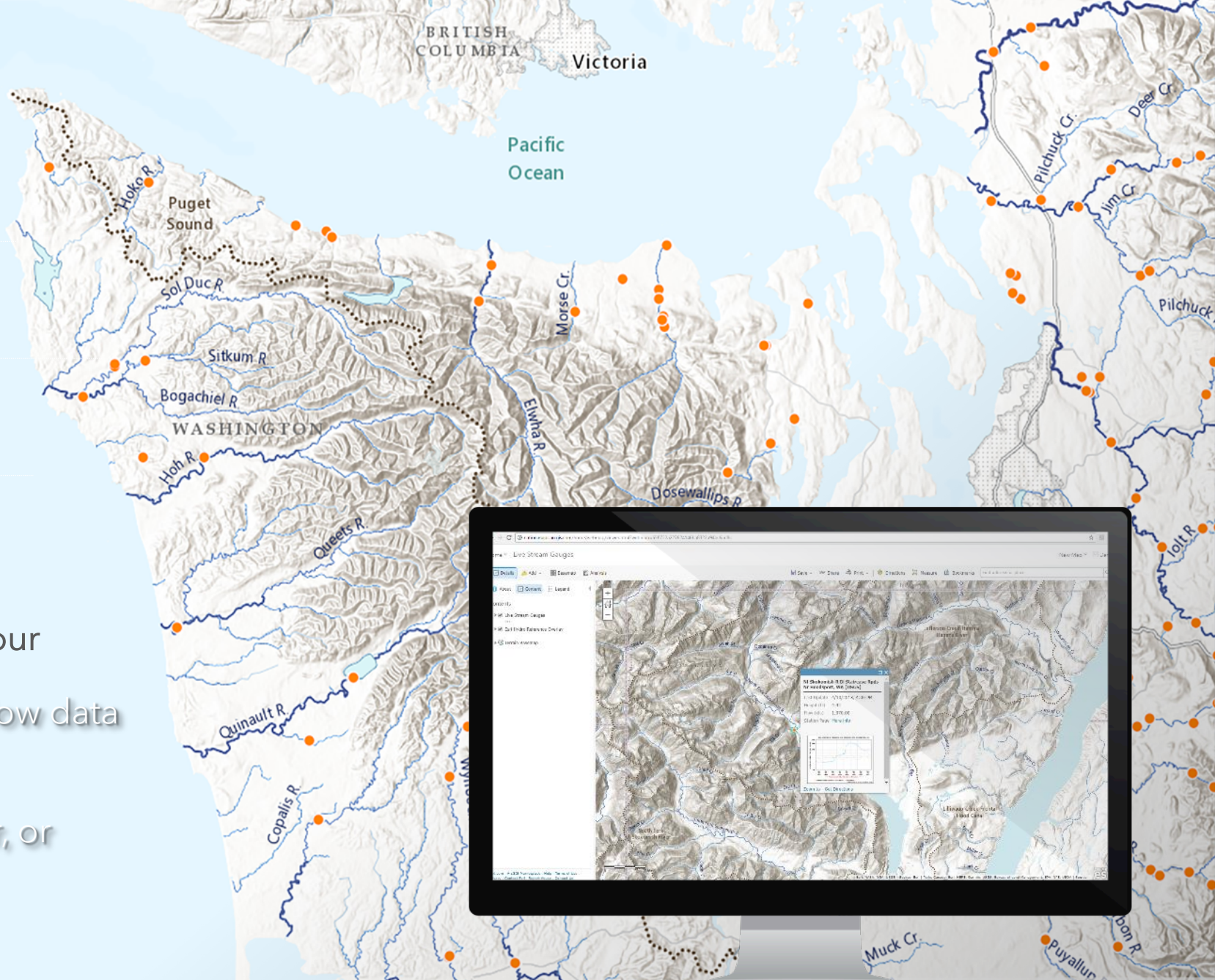


COMMUNITY MAPS CONTRIBUTION

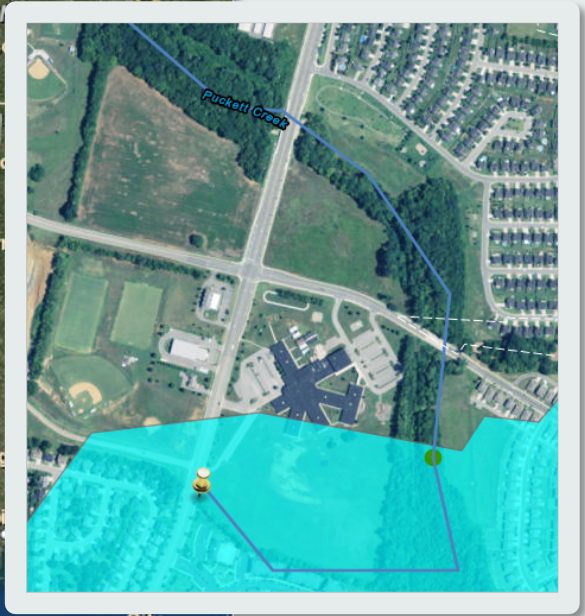
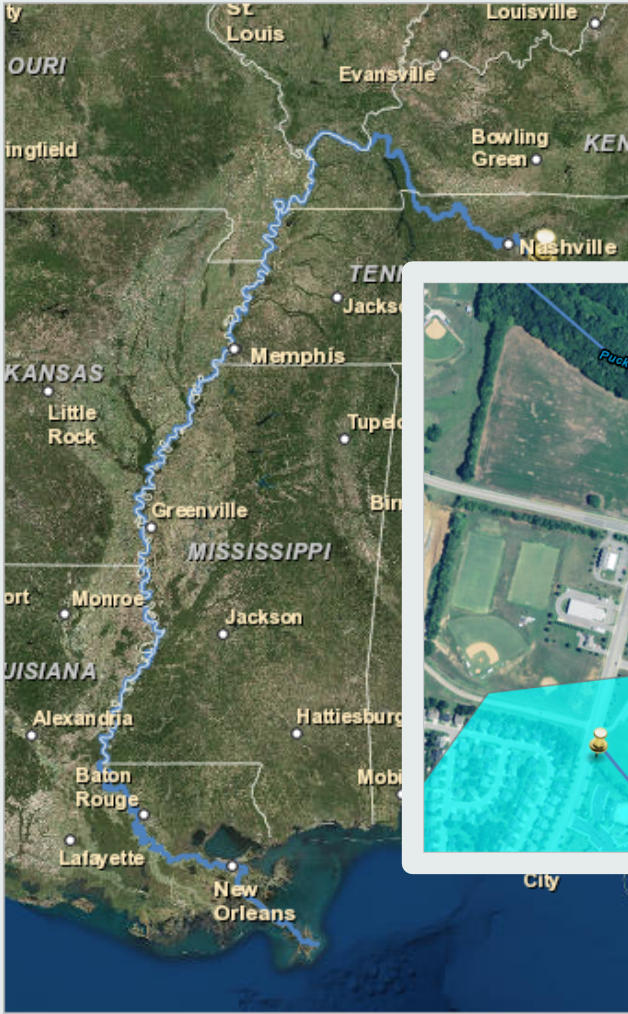
Integrated Stream Gauge Data

25,000 locations updating every hour

- USGS, NOAA, and local stream flow data
- AU, DE, NZ, UK coverage
- Use in Desktop, Online, Collector, or integrate into a Dashboard



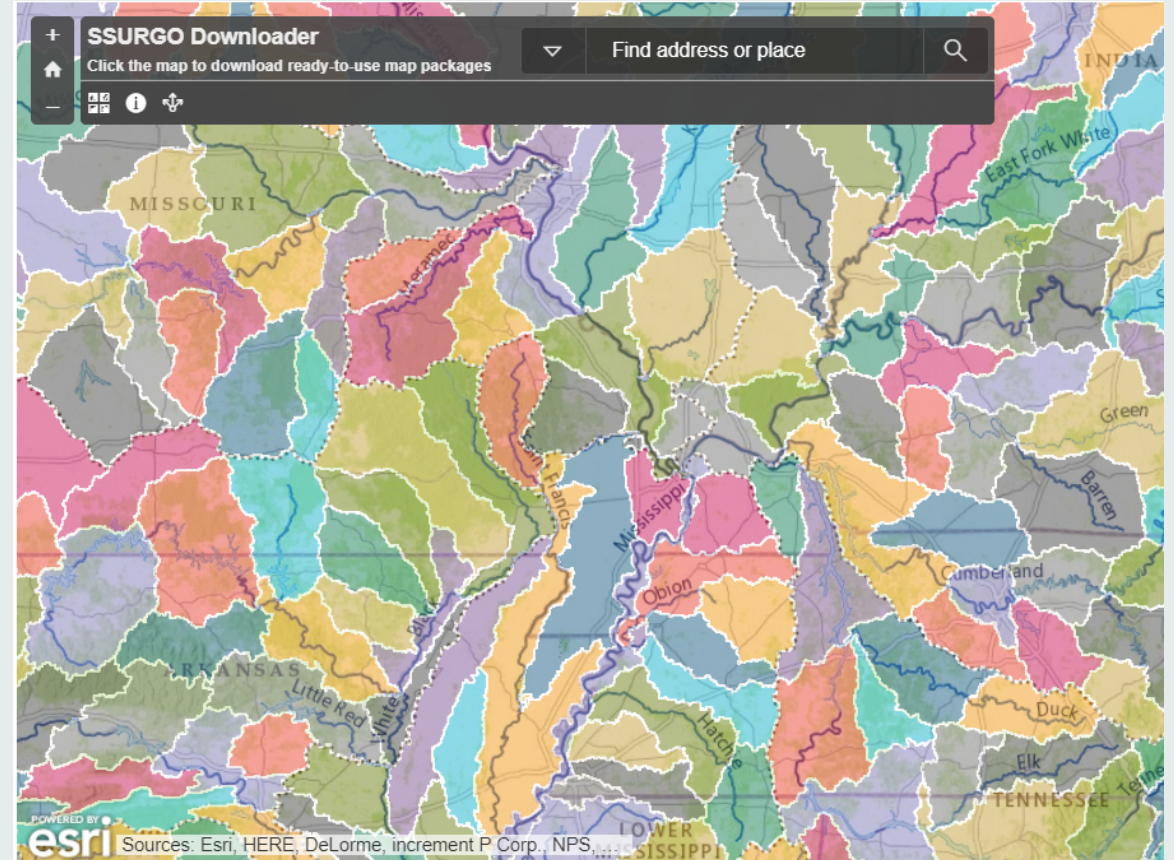
Esri Hydro Geoprocessing Services



- No Credits Required
 - Watershed
 - Trace Downstream
- Upgrades to 10m elevation data in the US

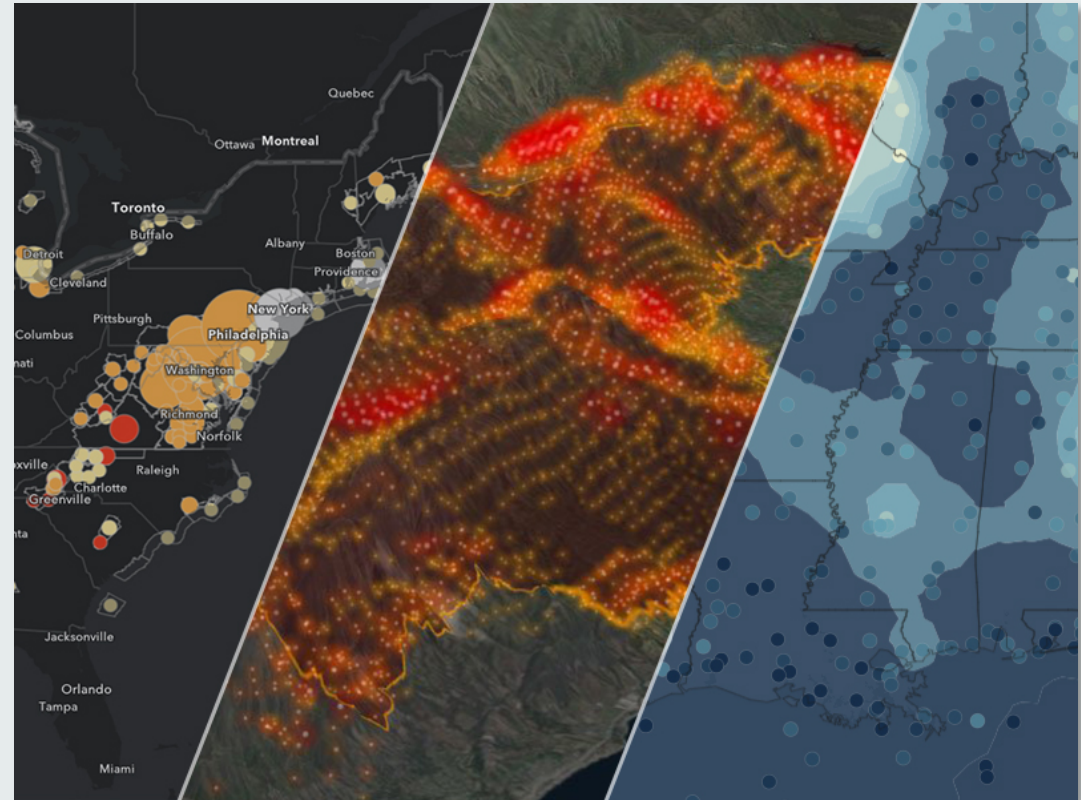
SSURGO updated and upgraded in 2019

- 170 soil attributes
 - Available Water Storage (depths)
 - Drainage Class
 - Flood Frequency
 - Hydrologic Group
 - Water Table Depth
- Download Pro Projects using SSURGO Downloader App
 - Files subset into HUC-8

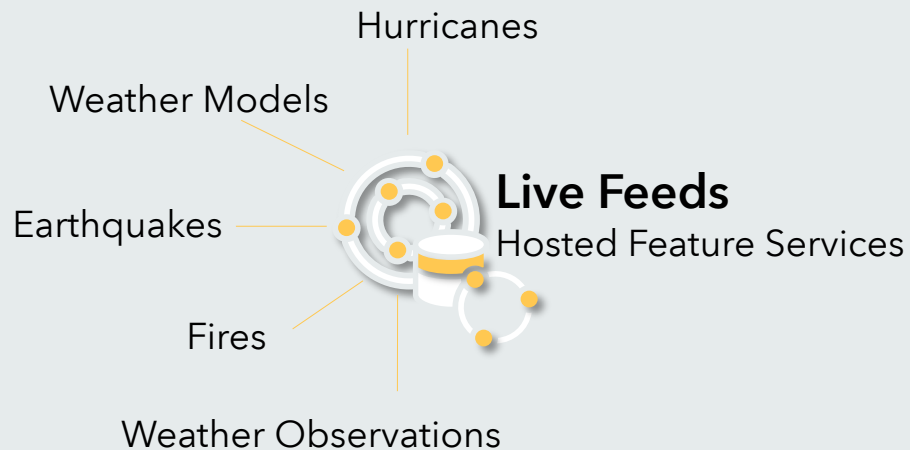


Upgrades to Live Feeds

- USA Weather Watches and Warnings
- USA Short-Term Weather Warnings
- USA Storm Reports
- Current Weather and Wind Station Data
- Active Hurricanes
- Recent Hurricanes
- Satellite (MODIS) Thermal Hotspots and Fire Activity
- National Weather Service NDFD Forecasts
 - Wind
 - Gust
 - Wind Direction
 - Precipitation
 - Snowfall
 - Ice
 - Smoke
- USA Wildfire Activity
- Recent Earthquakes



The Aggregated Live Feed methodology



- What is it?
 - Processing workflows to handle near real-time data
 - Plus - Python production toolset
 - One more tool in your GIS toolbox
- Why would I use it?
 - Relying on an unstable source?
 - Internalize content
 - Need to reduce your Internet load?
 - Would you like to automate content refreshment?
- New Additions
 - Overwrite, Append, and *Swap*

Update Real-Time Data with Python

Automate a Python feed routine to show the latest data on coral bleaching.



Author

Gonzalo Espinoza-Davalos

Duration

1hr(s) 50mins

Data collection & management

Real-time GIS

Sharing & collaboration

Government

The National Oceanic and Atmospheric Administration (NOAA) Coral Reef Watch frequently updates data on coral bleaching. If you map this data, it'll likely become outdated within a few weeks. How do you automate updates so that your GIS layers use the latest data as soon as it becomes available?

One way is to use a feed routine. A feed routine is a workflow where data is queried from a live feed repository and the information is passed to a map. In this lesson, you'll use Python to create two feed routines, one that automatically updates feature classes in ArcGIS Pro and one that automatically updates feature services on ArcGIS Online or ArcGIS Enterprise.

This lesson will introduce you to both basic and advanced Python topics.

Requirements

Learn ArcGIS Lesson



esri

**THE
SCIENCE
OF
WHERE**