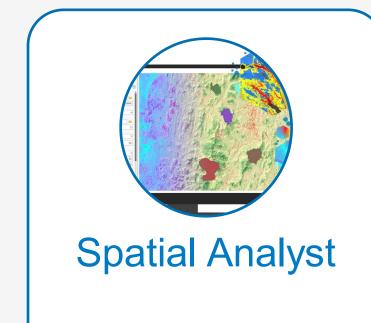


2022 ESRI USER CONFERENCE

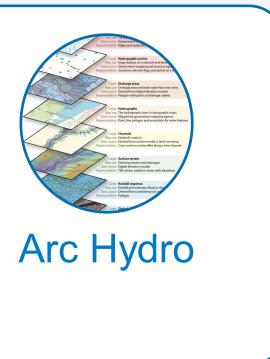
Living Atlas Update

Gonzalo Espinoza

Esri Water Resources and Hydro Meeting





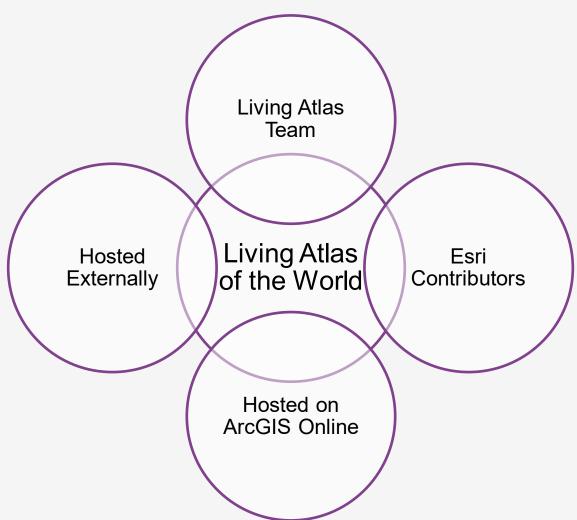


The Living Atlas of the World

Authoritative Curated Interoperable Updated Growing

Living Atlas Content

Source



Water Resources Layers in Living Atlas

Blog



https://www.esri.com/arcgis-blog/products/arcgis-desktop/water/arcgis-living-atlas-of-the-world-layers-for-water-resources/

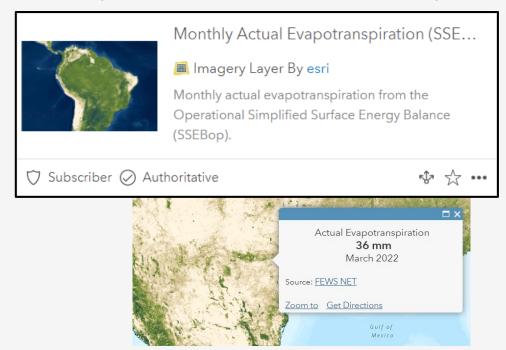
Precipitation & Evapotranspiration Image Services

Monthly Satellite Precipitation Estimates (IMERG)



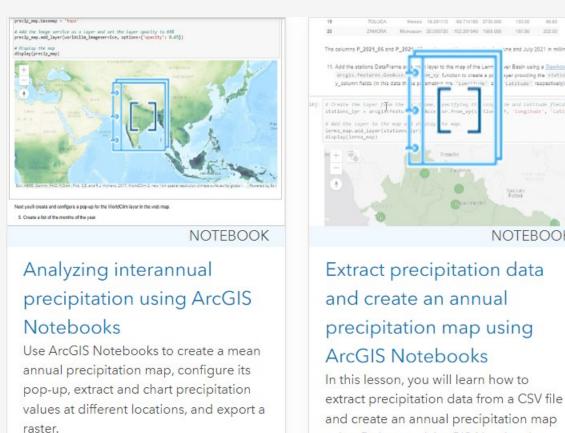


Monthly Actual Evapotranspiration (SSEBop)



Precipitation Lessons in Learn ArcGIS

(45 min



https://learn.arcgis.com/en/gallery/#?g=precipitation&r=datascientist

w. xy. function to create a po

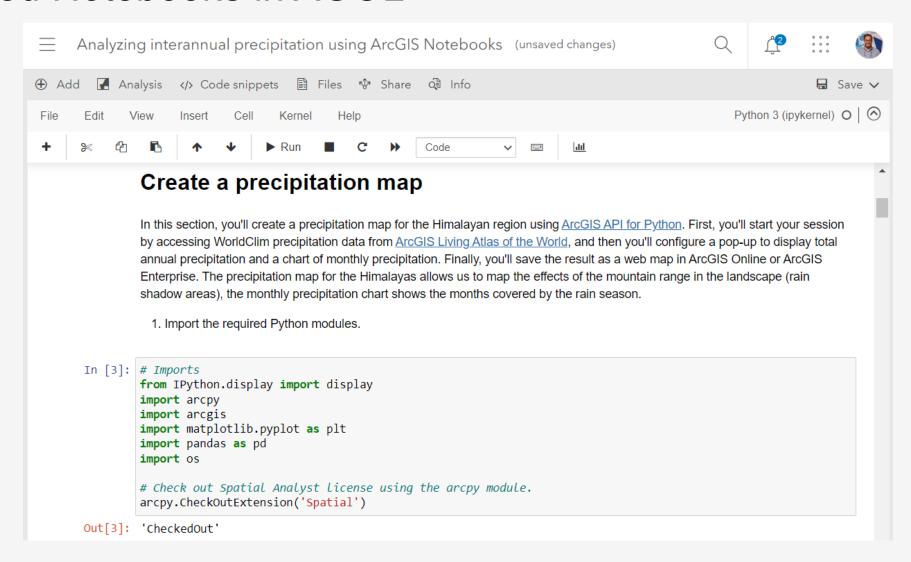
using Python and ArcGIS Notebooks.

(45 min

eyer providing the stations_df

NOTEBOOK

Hosted Notebooks in AGOL



Evapotranspiration Blog



Water March 31, 2022











Evapotranspiration (ET) is a key component of the water cycle and is useful for many analysis and mapping applications. A new time-enabled imagery layer with monthly ET measurements is now available in Living Atlas.

Understanding Evapotranspiration

Evapotranspiration represents the water that flows from the landscape into the atmospher ET combines the water fluxes from (1) direct soil evaporation, (2) evaporation from intercepted precipitation on trees, branches, and leaves, and (3) transpiration from plants.



https://www.esri.com/arcgis-blog/products/arcgis-living-atlas/water/evapotranspiration-data-in-arcgis-living-atlas-of-the-world/

GPM IMERG Early Precipitation Rate

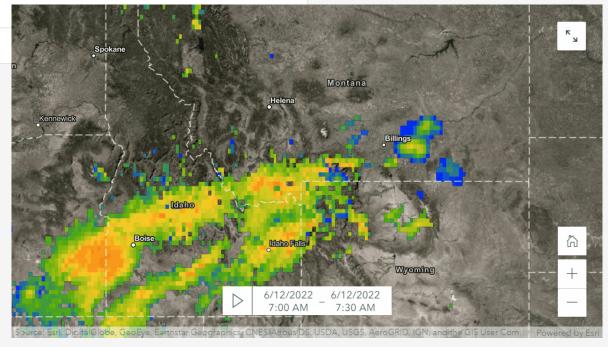


GPM IMERG Early Precipitation Rate (GPM_3IMERGHHE preci...

Imagery Layer By NASA_Earthdata

Image service of IMERG Early product displaying precipitation rate in mm/hr at 30 minute intervals. Information on map configuration, color bar, and data, is available in Item Details.

Authoritative



Precipitation Indices – SPI & SPEI

Standardized Precipitation Index (SPI) Recent Conditions



Standardized Precipitation Index (SPI) calculated from CHIRPS. Current month: April 2022.

Feature Layer from Esri Managed by esri_livefeeds2

Created: Jul 7, 2020 Updated: Jun 1, 2022 View Count: 154,759

Authoritative Q Living Atlas

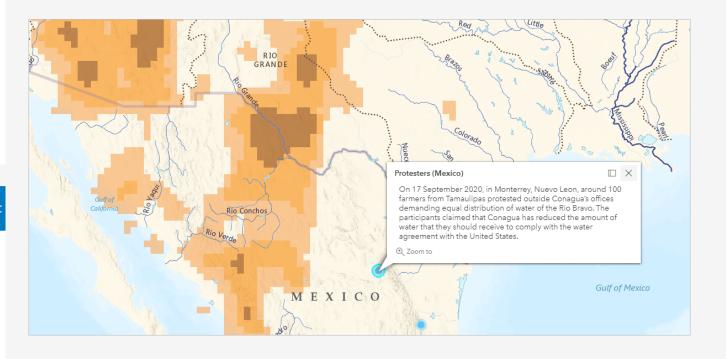
Standardized Precipitation-Evapotranspiration Index (SPEI) Recent



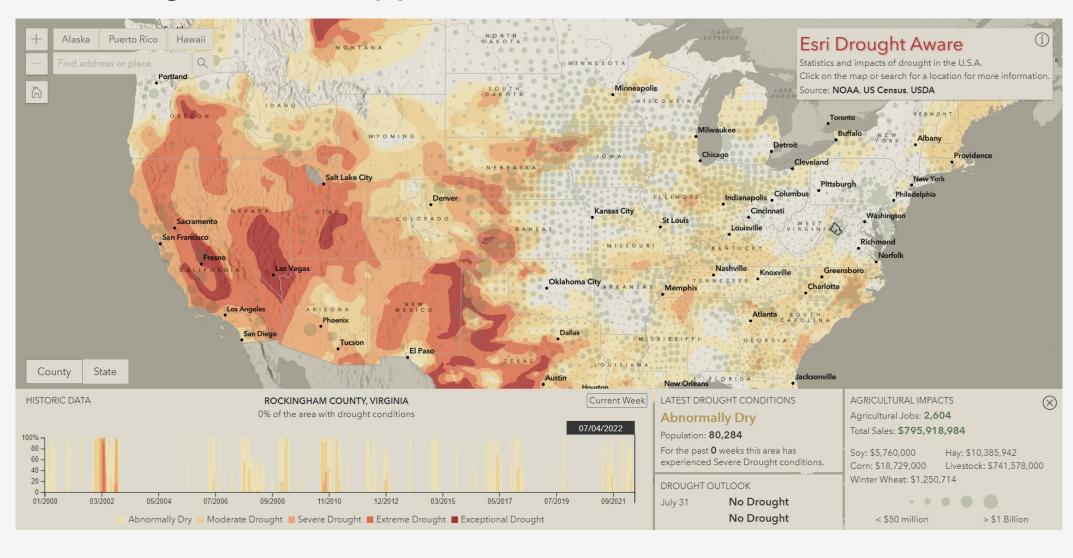
Standardized Precipitation-Evapotranspiration Index from the SPEI Global Drought Monitor. Current month: May 2022.

Feature Layer from Esri Managed by esri_livefeeds2

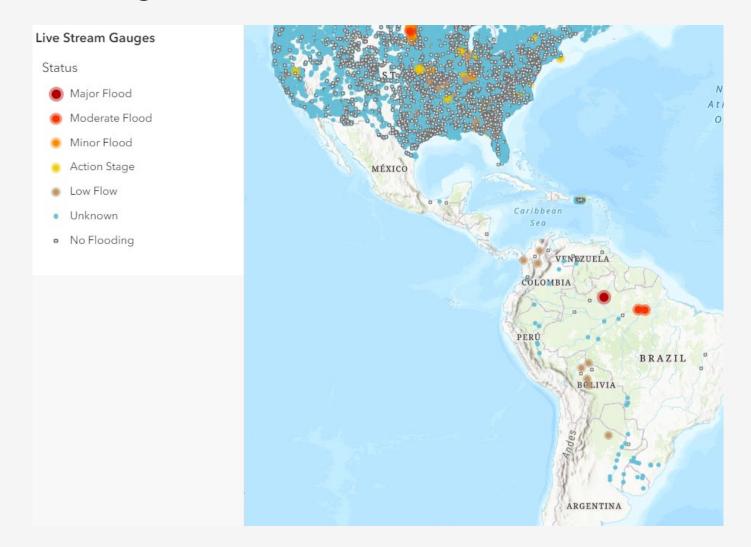
Created: Feb 18, 2022 Updated: Jun 11, 2022 View Count: 2,227



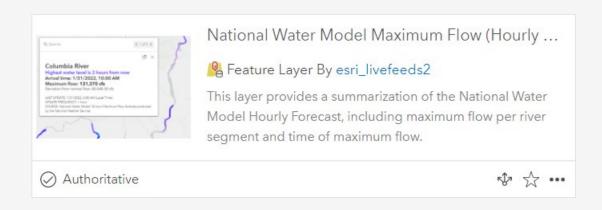
Esri Drought Aware App

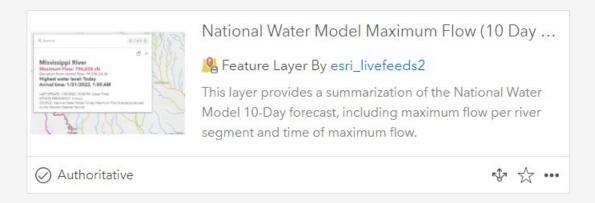


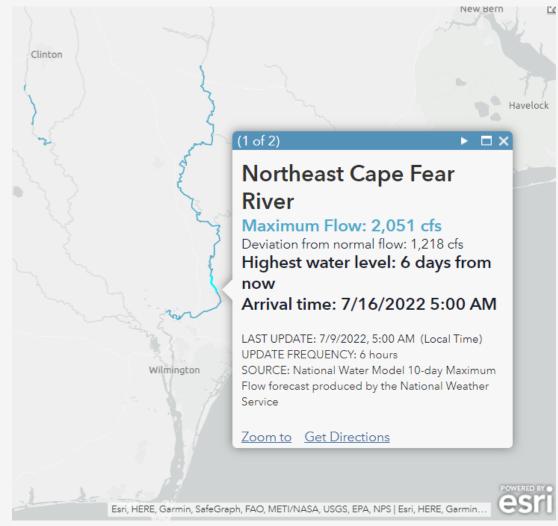
Live Stream Gauges



National Water Model







Summary

Living Atlas includes a collection of water resources layers that are ready-to-use in your maps, apps, & analysis.

