MIKAS and NIKAS springs photo gallery

NORTH AMERICA

Note: The classification of springs is preliminary, the final lists will be established at the end of project. The first group of evaluated countries and their springs are presented in alphabetic order (data received during the year 2023), the rest is in chronological order.

MIKAS – Chassahowitzka no. 1 / 7 Sister Springs



Chassahowitzka/7 Sister Springs (FGS)



Inside view of cavern at Chassahowitzka/7 Sister Springs (FGS)

MIKAS – Gainer spring



Gainer spring (FGS Photo)

MIKAS – Ichetucknee



Ichetucknee Head Spring (Photo by Tom Scott)

MIKAS - Jackson Blue Spring



Aerial view of Jackson Blue Spring (Photo by Tom Scott)

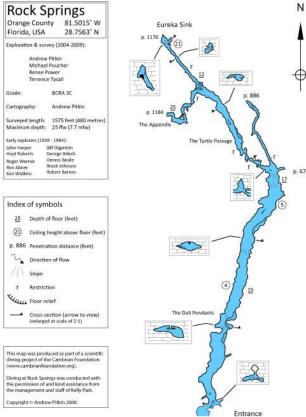


Jackson Blue looking towards Merrits Mill Pond (FGS Photo)

MIKAS – Rock Springs and Wekiwa Springs



Rock Spring vent (Photo by FGS staff)



Cave map of Rock Springs (after Pitkin, 2009)



Wekiwa Spring Boil (Photo by FGS Staff)

MIKAS – Silver Springs Group



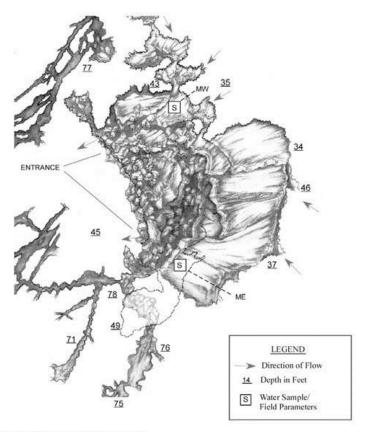
Silver Springs run (Photo by H. Means, FGS)



Silver Springs (Photo by FGS)

MAMMOTH SPRING SILVER SPRINGS GROUP MARION COUNTY, FLORIDA

PLAN VIEW



Adapted from "Silver Springs Cave System" Map by Eric Hutcheson and the Silver Springs Cave diving Team, 1993

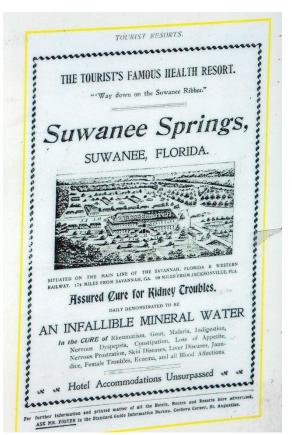
KARST ENVIRONMENTAL SERVICES, INC. 2007

Mammoth Spring cave map (Karst Env. Services, Inc., 2007)

MIKAS – Suwannee Springs

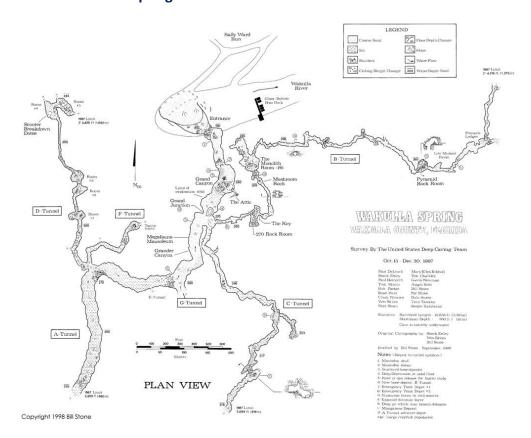


Image of Suwannee Springs by John Moran



1800s advertisement of Suwannee Springs Resort

MIKAS – Wakulla Spring



Wakulla Springs cave system map (Bill Stone, 1988) http://www.caveatlas.com/systems/system.asp?ID=84



Pictured are George Christie, geologist Herman Gunter, Gerald M. Ponton and diving team member J. Clarence Simpson (FGS Photo)



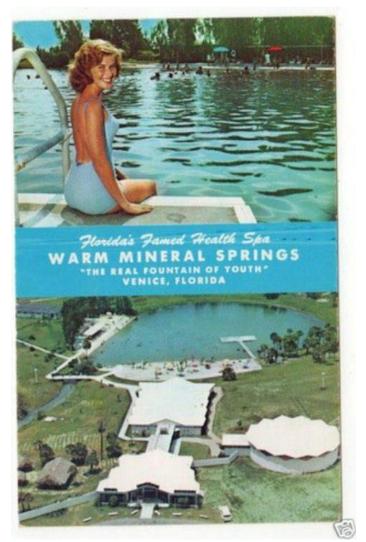
Aerial photo of Wakulla Springs main vent



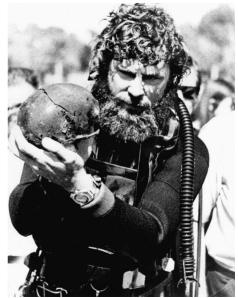
Divers preparing to recover mastodon remains from Wakulla Springs and its recovered skeleton



MIKAS – Warm Mineral Springs



Historic Poster of Warm Mineral Springs



Marine archaeologist W.A. "Sonny" Cockrell with skull found at Warm Mineral Springs in Sarasota County (photo by Jim Purks 1973)

MIKAS – Giant Springs





Left: Giant Springs, Montana (Photo courtesy of Geary Schindel). Right: Drone photograph of Giant Springs. Courtesy of fwp.mt.gov

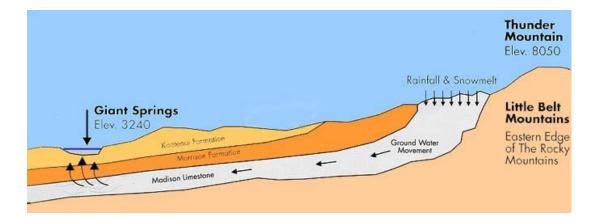


Diagram courtesy of Giant Springs Bottled Water Company

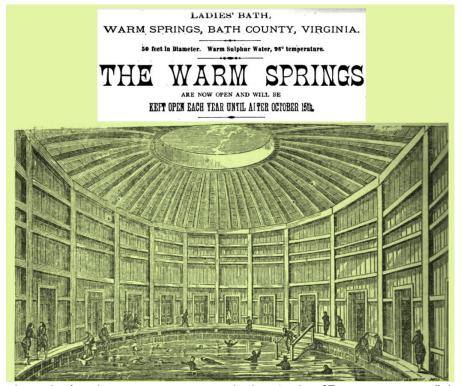
MIKAS – Warm Springs VA



Ladies' (left) and Gentlemen's (right) Pools of the Warm Springs (Courtesy of the Omni Homestead Resort)



Thermal water outflow from the Gentlemen's Pool



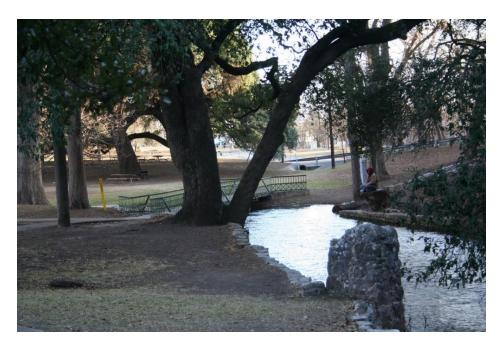
The Ladies' Bath at Warm Springs Pool advertised 98°F water source in: "The Chesapeake & Ohio Railway Directory, Containing an Illustrated History and Description of the Road," Ladies' Bath, Warm Springs, Bath County, Virginia (p.331)

MIKAS – Comal Springs

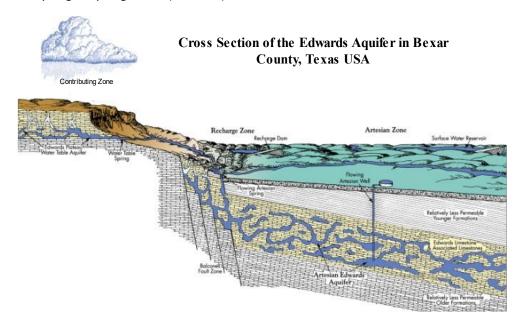




Comal spring and information plate at the spring site (Photo by Zoran Stevanovic)



Comal Springs - Spring Run 3 (Schindel)

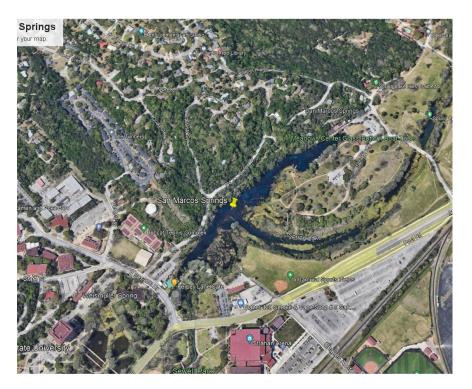


Scheme of Edwards Aquifer functioning (Courtesy of Edwards Aquifer Authority)

MIKAS – San Marcos springs



San Marcos ascending spring and formed stream (Photo by Zoran Stevanović)



Google Earth View of San Marcos Springs

MIKAS - San Solomon spring



San Solomon main spring pool (San Solomon Springs from Texas Parks and Wildlife Webpage)



Enlarged view on Solomon Springs (from Google Earth)

MIKAS – Alley spring



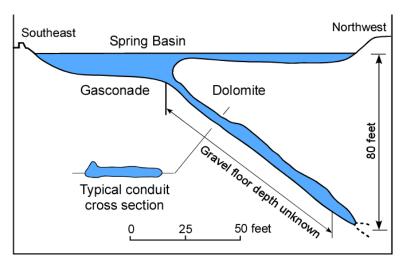
Close up Google Earth image of Alley Spring rise pool and mill in the big springs area of the Missouri Ozarks



Image of Alley Spring, Missouri, and the mill that are part of the Ozark National Scenic Riverways. Visual estimate of intermediate spring discharge is provided by flow over dam on right side of mill (Photo credit: Lucas Bremer. https://www.theoutbound.com/missouri/photography/explore-alley-spring-and-mill-within-the-ozark-national-scenic-riverways/photos#photo-308145)

MIKAS - Bennett spring





Top: Bennet Spring in Dallas County, Missouri; photo courtesy of Missouri Department of Natural Resources, in public domain. Bottom: Longitudinal cross-section through Bennet Spring. Data supplied by D. Rimbach, M. Tatalovich, and M. Grussemeyer. Modified from Vineyard and Feder, 1974/1982.



Historic image from a 1914 post card shows a crude wood structure seen here blocking the spring run from Brice Springs – now called Bennett Spring. Bennett Spring is now a Missouri state park. Photo credit: http://www.dammingtheosage.com/brice-spring-now-bennett-spring-state-park-on-the-niangua-river/



Image of Bennett Spring in the summer at Bennett Spring State Park, Missouri. Photo credit: https://2.bp.blogspot.com/bAwd3Js2q0w/WQZIqKSF_qI/AAAAAAAHeU/FZxGAD7ao6AuY2R8quDi16Rcz5XD SwDCQCLcB/s1600/bennett-spring-state.jpg



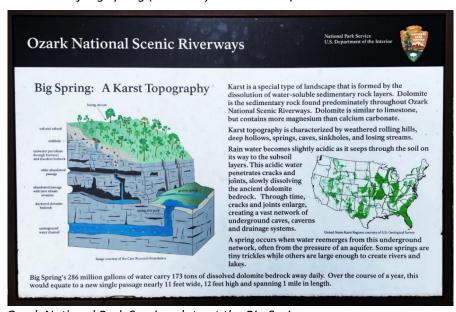
Fishermen line the bridge cheek to jowl across the outflow from Bennett Spring State Park to test their luck during a winter day. Bennett Spring State Park was previously known as Brice State Park. Image credit: https://mostateparks.com/park/bennett-spring-state-park

MIKAS - Big Spring (MO)





Two views of Big Spring (Photos by Neven Kresic)

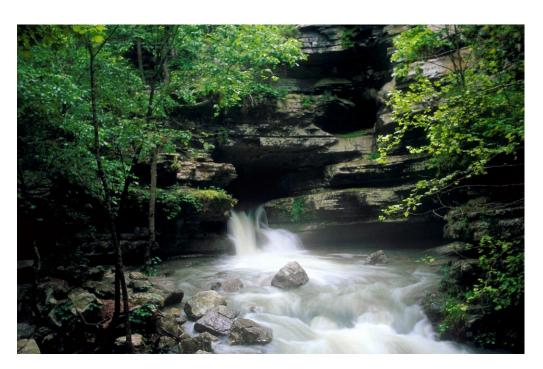


Ozark National Park Service plate at the Big Spring



Big Spring, Carter County, Missouri. Ascending flow resurging from the base of a bluff in the Eminence Dolomite, where flow is into spring run to the Current River. Photo source: Patti Wheatley-Bishop in National Park Service [accessed 13.08.2023]

MIKAS - Blanchard Spring



Blanchard Spring at intermediate flow resurging as a cave stream in Blanchard Spring Caverns. An historic conduit currently dry is visible above and to the right of the existing cave stream (Photo credit: modified from Eric White)



Speleothems provide visual documentation of downward flowing recharge moving from impermeable chert layers near the roof of the cavern in the Boone Formation to a lower level in the cave (Photo credit: https://arkansaslivingmagazine.com/article/underground-arkansas-discover-blanchard-springs-caverns/#prettyPhoto/3/)



Image of overflow of dam at Mirror Lake downstream from Blanchard Spring along the spring run

MIKAS - Blue Spring (MO)



Image of Blue Spring (Shannon County) Missouri, during low-flow. Blue Spring has the reported deepest formation of an Ozark spring in the Missouri Ozarks (Photo by Neven Kresic)



Whereas the sign leading to Blue Spring boasts that it's the eighth-largest spring in Missouri, the Missouri Department of Conservation asserts it's now the sixth-largest (Photo by Neven Kresic)



Photo looking upward toward the surface resurgence showing a cave diver moving vertically downward along the spring bore, a distance of about 85meters. Diving in this spring requires a research permit, and dive times greater than 17 hours to reach the full extent of the mapped cave (Photo credit: https://www.ocda.org/exploration/projects/photo-of-the-month/)

MIKAS – Greer Spring



Image of Greer Spring resurging in its rise pool (two hundred yards down gradient of the bluff cave resurgence) at greater discharge in the big springs area of the Missouri Ozarks (Photo by Neven Kresic)

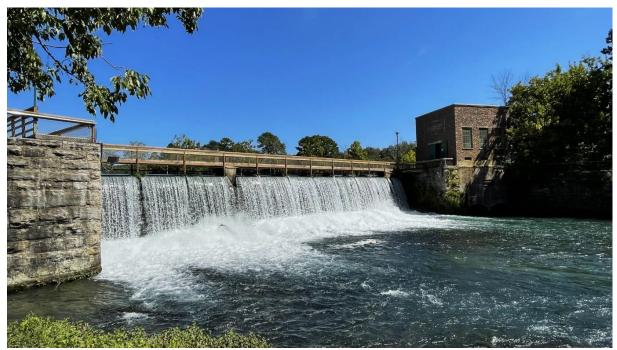


Ground level image of Greer Spring resurgence from a bluff in the Gasconade Formation during low flow (Photo by John Van Brahana)

MIKAS - Mammoth Spring



Southern outlet from Mammoth Spring rise pool showing intermediate discharge (Photo by Neven Kresic)



Hydroelectric dam at the distal end of the spring run of Mammoth Spring, Arkansas, where the spring water flows over the dam and creates the headwaters of the Spring River. The hydroelectric aspects of the structure are no longer operational (Photo by Neven Kresic)

MIKAS – Blue Spring (AR)



Enlarged Google Earth View of Blue Spring in Arkansas



Blue Spring basin with the overflow to the trout lagoon (Photo by Neven Kresic)



The Bluff Shelter at Blue Spring with Native American pictographs is listed on the National Register of Historic Places (Photo by Neven Kresic)

MIKAS - Blue Spring (AZ)



View southeast toward upper and middle spring of Blue Spring, Little Colorado River (Courtesy of USGS, collection by George Billingsle)



View east toward normal blue Little Colorado River spring water flowing over travertine dam deposits, just upstream of Big Canyon. Courtesy of USGS, collection by George Billingsle.

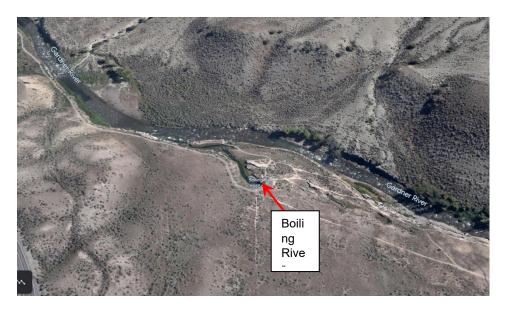


Confluence of the Little Colorado River (blue color) and the Colorado River (green color). Screenshot from a video Virtual Tour—Grand Canyon, AZ Dams Threaten the Little Colorado River, produced by EcoFlight in cooperation with Grand Canyon Trust. Available at https://www.grandcanyontrust.org/little-colorado-river-dam-proposals

MIKAS – Boiling River Springs (Yellowstone)



Left: Spring of the Boiling (Hot) River. Right: Boling River (seen in the left of the photo) cascading into the Gardiner River with bathers enjoying in the mixing zone of two rivers (71° C temperature of the Boiling River is too high for bathing)



Google Satellite Images of the Boiling River Spring, Yellowstone National Park

MIKAS - Havasu Spring



View southeast toward Havasu Falls from trail in Cataract Canyon (Courtesy of USGS, collection by George Billingsle)



Google Earth satellite image of the Havasu Springs near Supai Village, Grand Canyon, Arizona



Travertine pools below Havasu Falls, Havasu Creek, Cataract Canyon (Courtesy of USGS, collection by George Billingsle)