

MIKAS and NIKAS springs photo gallery

**SOUTH & CENTRAL
AMERICA**

***Bolivia, Brazil, Colombia, Costa Rica, Ecuador,
Guatemala, Jamaica, Mexico, Peru, Venezuela***

Bolivia



MIKAS- Chiflonqaqa



*View from the distance
of Chiflonqaqa spring
waterfall on the left
side of the Toro Toro
canyon*



*Close up view of the Chiflonqaqa spring
waterfall*

Brazil



MIKAS - Baía Bonita



View of Baía Bonita Spring. From: www.aquarionatural.com.br

MIKAS - João Baio



View of João Baio spring (Photo by Alexandre Lobo)



Cycle of discharge variation few meters downstream from the spring. Low discharge (Photo by Alexandre Lobo)

MIKAS - Pratinha



Aerial view of Pratinha Spring (Photo by Alexandre Lobo)



View from the interior of the cave where the Pratinha spring issues (Photo by Alexandre Lobo)

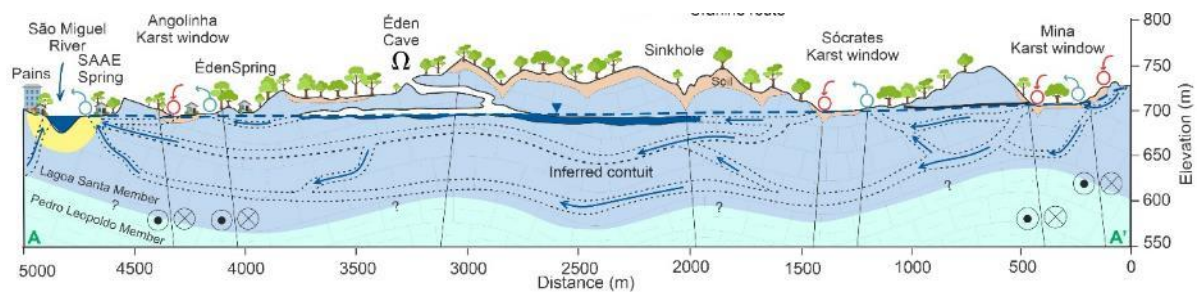


View of the lake in front of the spring with the cave in the background. This lake is used as a water park (Photo by Alexandre Lobo)

NIKAS - Éden



Top view of the karst spring highlighting the dimensions of the channel (Photo by Gabriel Lourenço)



Schematic profile of Éden spring and catchment area. Source: Assunção et al. (2023).

NIKAS - Lagoa do Japonês



Aerial view of the Lagoa do Japonês spring.

Source:

<https://www.t1noticias.com.br/cidades/dificuldade-no-acesso-representa-perigo-e-pode-afastar-turistas-da-lagoa-do-japones/96172/>



Lagoa do Japonês spring issues from a cave in the limestone cliff. Source: <https://vaipassear.com/lagoa-do-japones/>

NIKAS - Gruna da Mamona



View of the cave associated with Gruna da Mamona spring

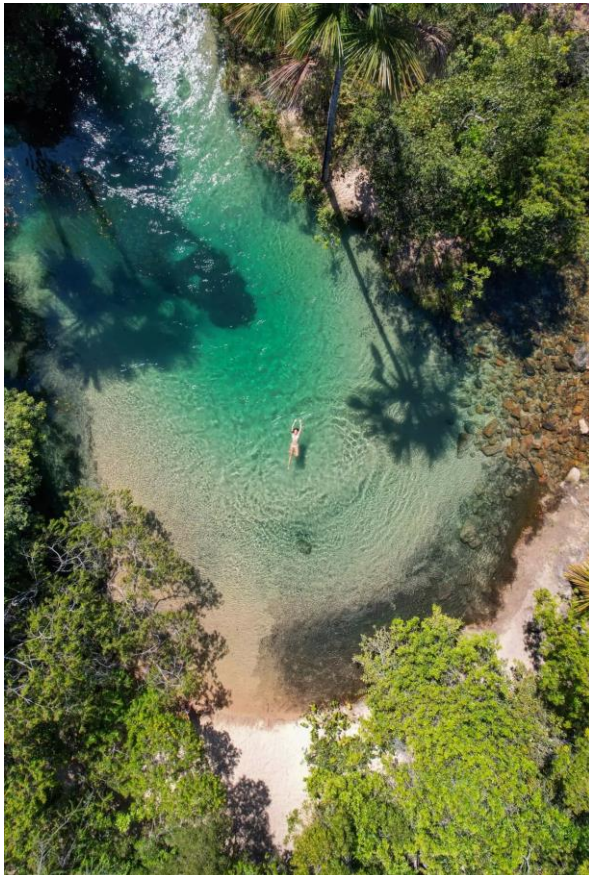
NIKAS - Poço Azul



*View of Poço Azul spring.
From:*

<https://www.facebook.com/BH.AVALIACOES/photos/a.481050048580558/720474414638119/?type=3>

NIKAS - Rio Azuis



Aerial view of the Rio Azuis spring. Source:

<https://www.aventuraspelonossomundo.com.br/aurora-do-tocantins-serras-gerais/>

NIKAS - Roncador spring



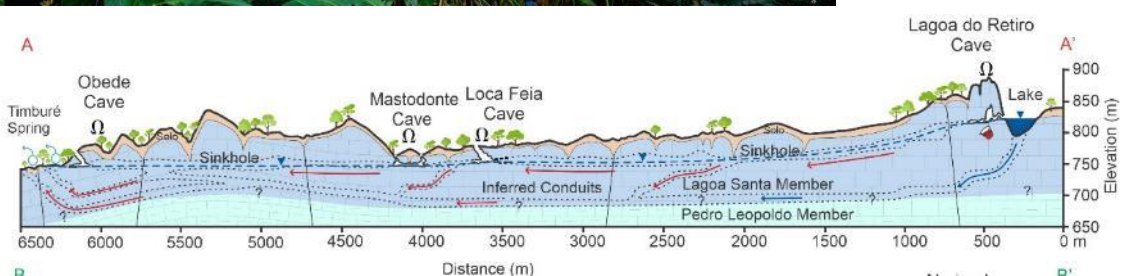
Roncador Spring and the entrance to Santana Cave. Source:

<https://www.loucosporviagem.com/destinos-nacionais/roteiro-no-petar-nucleo-santana-post-2/>

NIKAS - Timburé



Lateral view of the karst spring highlighting the dimensions of the channel that make it attractive for recreational use by the local population (Photo by Gabriel Lourenço)



Cross-section through catchment area. Source: Assunção et al. (2023).

Colombia



MIKAS - Manantial de Cañaverales



Crystal clear waters of Manantial de Cañaverales. Retrieved from, <https://semanariovoz.com/la-quajira-canaverales-manantial-amenazado-muerte/>

MIKAS - Ventanas de Tisquizoque



Ventanas de Tisquizoque three-tiered waterfall (Photo by Marianela Vargas)



View from the interior of the Ventanas de Tisquizoque cave (Photo by Marianela Vargas)



Panoramic view and outflow of La Venta Creek in Ventanas de Tisquizoque (Photo by Marianela Vargas)

Costa Rica



MIKAS – La Bruja System - Corredores Rio Guaimí



La bruja resurgence. Source: Goicoechea, C., Didonna, F., & Quesada, G. (2011). Cavernas de Costa Rica. Ediciones Anthros, Grupo Espeleológico Anthros (GEA).



El cauce del rio interno Guaimi, en la caverna Corredores (GEA, 2009). Source: Goicoechea, C., Didonna, F., & Quesada, G. (2011). Cavernas de Costa Rica. Ediciones Anthros, Grupo Espeleológico Anthros (GEA).

Ecuador



MIKAS - Jumandi cave

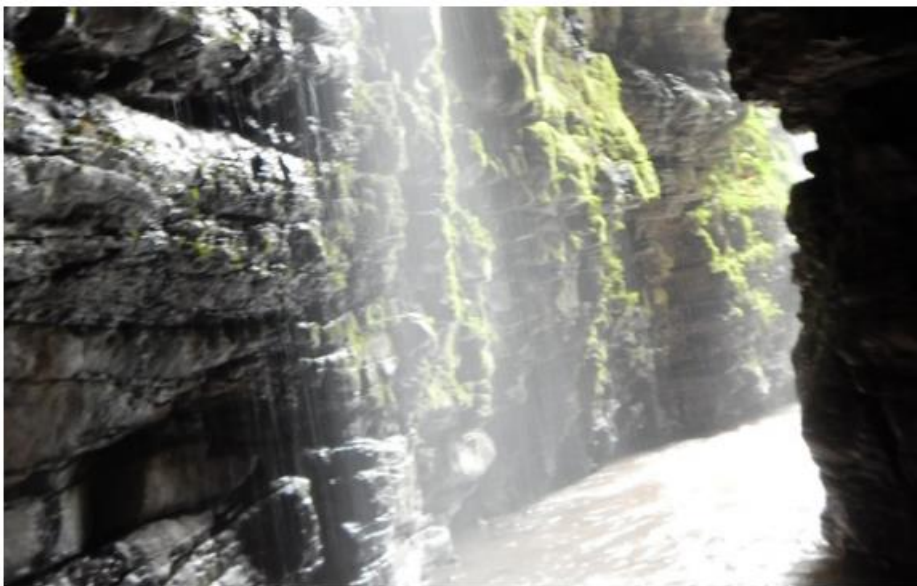


Sinkhole present at Cotundo Petroglyphs geosite



Map of entrance and speleotems inside the Jumandy cave

NIKAS - Rio Cacapishco (Gruta de los Tayos)



*Photos of the Gruta de los Tayos and Cacapishco River (Guía Espeleológica de la Provincia Napo).
From Sánchez Cortez (2017)*

Guatemala



MIKAS – Lanquin spring



Lanquín spring (Nacimiento del río Lanquín). Source: internet.



Nacimiento del río Lanquín. Source: Internet

Jamaica



MIKAS – Dornoch Head (Dornock) Blue Hole



Dornoch Blue Hole in low water season (Photo by G. Marshal)



Dornoch Blue Hole in high water season, when water becomes very turbid

MIKAS – Roaring River Blue Hole (Springs)



Roaring River Blue Hole #1 in Botanical garden (Photo: G. Marshall)



Roaring River Blue Hole # 2 (Photo: S. Watson)

Mexico



MIKAS - Nacimiento del Río Coy



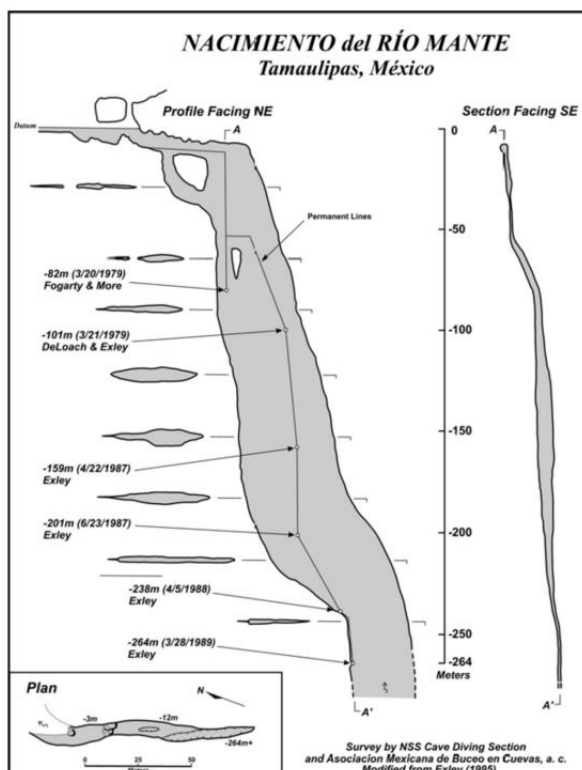
View of Nacimiento del Río Coy (source Internet)

MIKAS – Nacimiento del Choy



View of Nacimiento del Río Coy (source Internet)

MIKAS - Mante



Cross-section of Mante spring's siphon (after Exley, 1995)



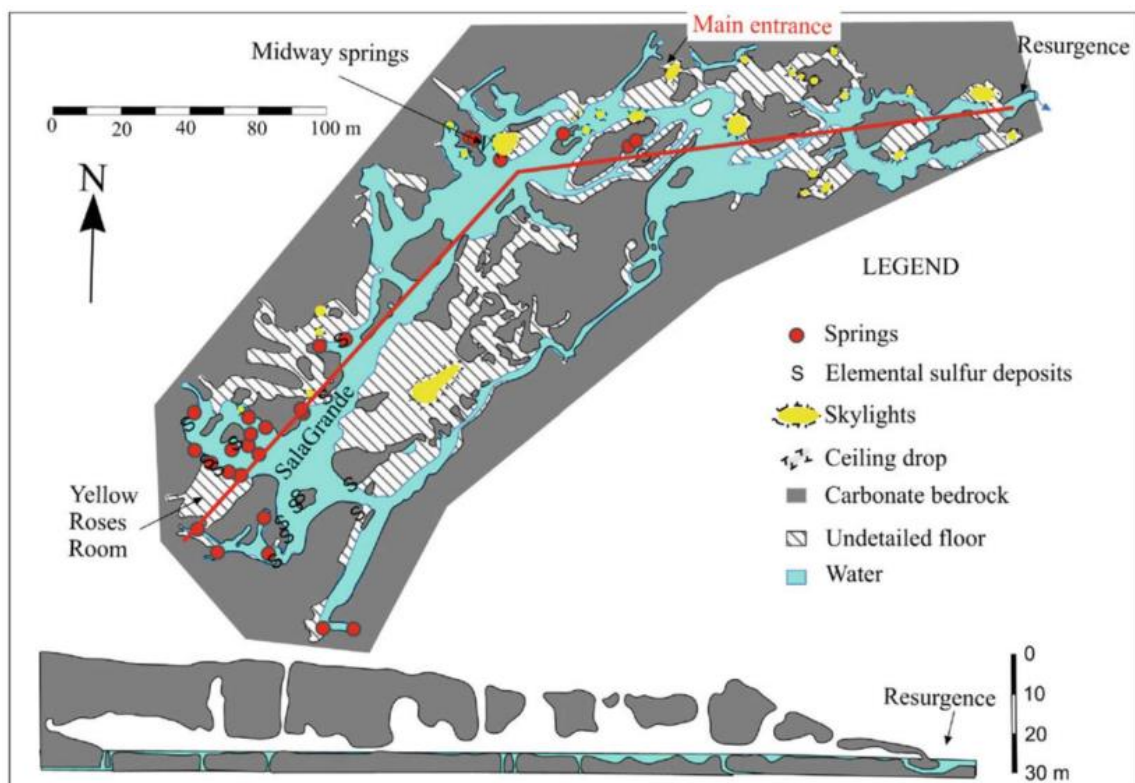
General aspect of Mante spring (source Internet)

MIKAS – Nacimiento Rio Frio



General aspect of Nacimiento Rio Frio (source Internet)

MIKAS – Cueva de Villa Luz



Cross-section of Cueva de Villa Luz, from Hose and Rosales-Lagarde (2017)



Underground stream within Cueva de Villa Luz. Photo by Robbie Shone (via Internet)

Peru



MIKAS - Maras spring (Male and Female springs)



View of the salt mines of Maras (source: J. Ccopa)



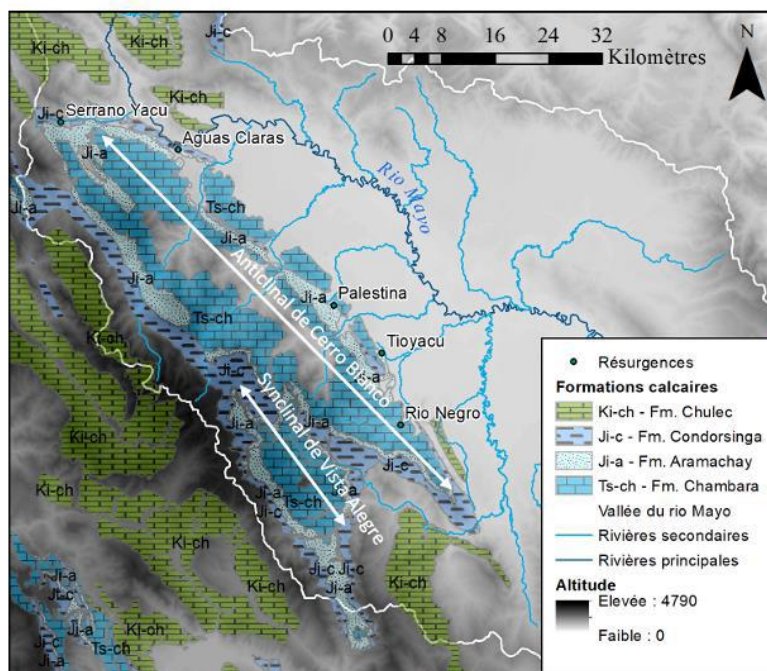
Channels that transport salt water from the male spring (source: N. Luque)



The Salt mines of Maras

(source: N. Luque)

MIKAS – Naciente del Río Serrano Yacu



Hydrogeological sketch map and locations of the four MIKAS springs in the Peruvian Alta Maya area – Serrano Yacu, Aguas Claras, Tio Yacu and Rio Negro (graphics: INGEMMET, 2016).

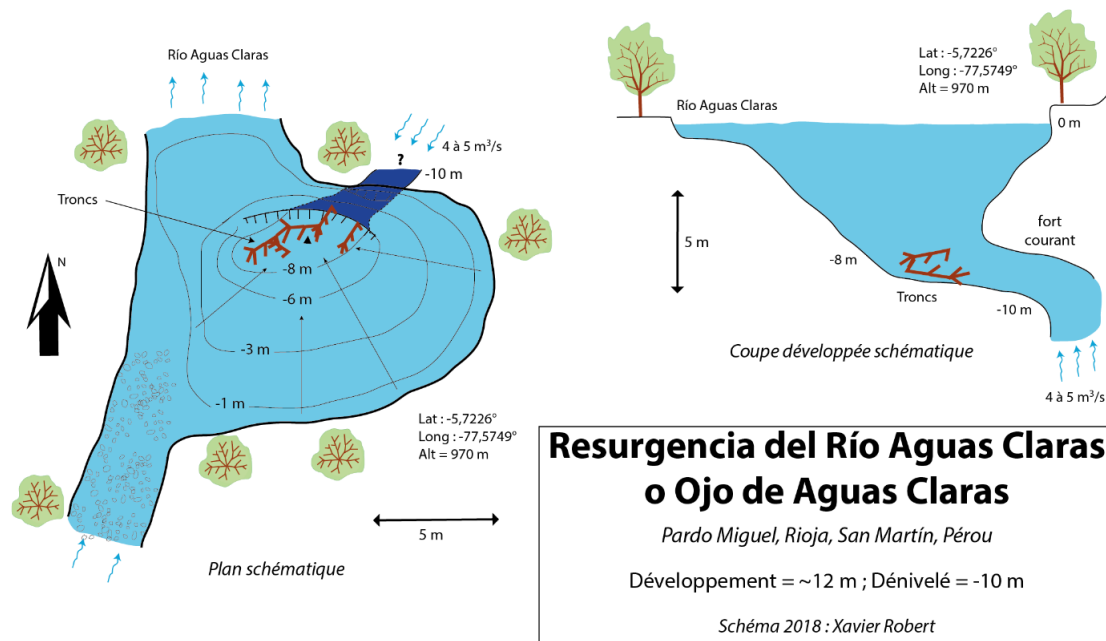


Rio Serrano Yacu spring (source: JL Guyot)

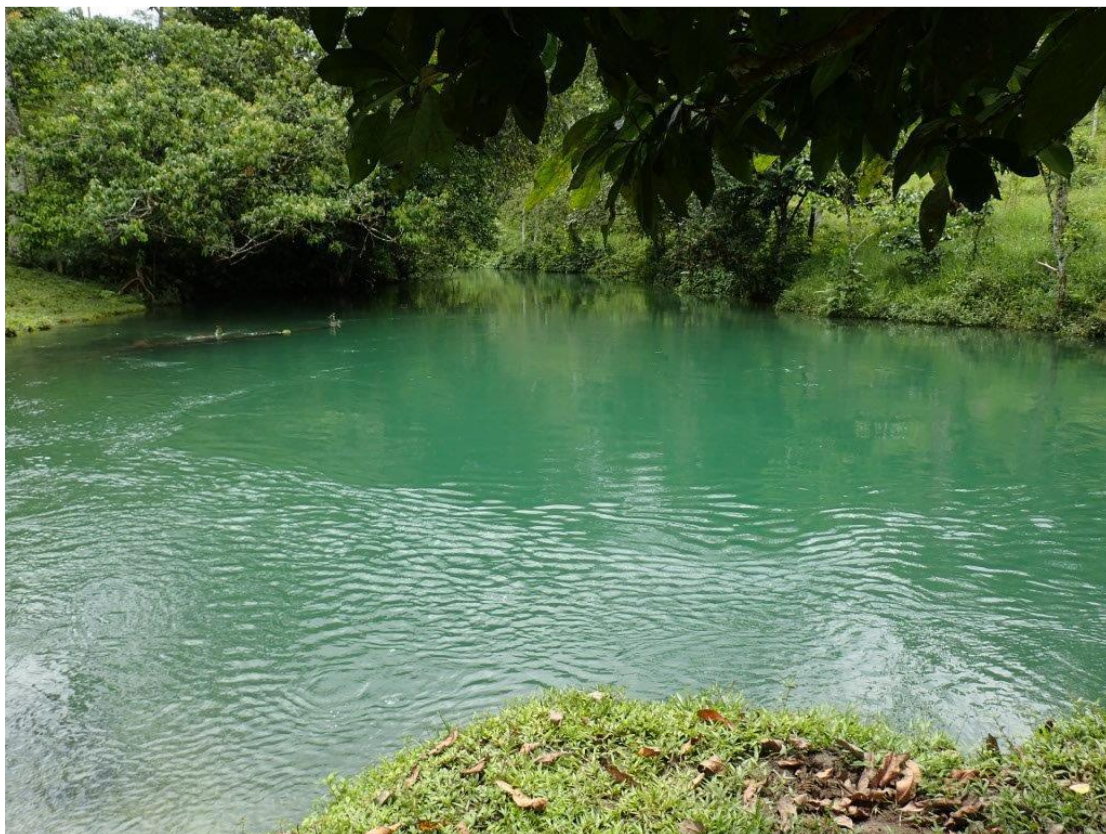


Rio Serrano Yacu downstream the spring (source: JL Guyot)

MIKAS – Naciente del Río Aguas Claras

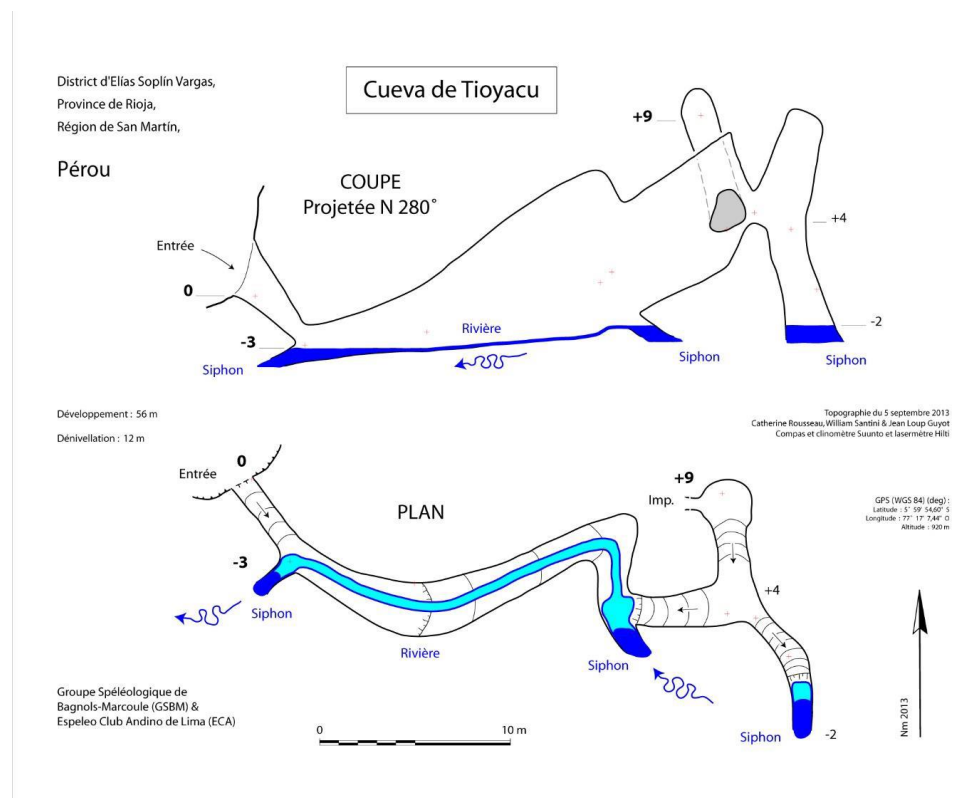


Siphon section of the spring of Rio Aguas Claras (X. Robert, 2019)



Rio Aguas Claras spring (source: JL Guyot)

MIKAS – Naciente del Río TioYacu



Cave-Siphon section of the spring of the Rio TioYacu (ECA-GSBM, 2013)



Rio TioYacu spring (source: JL Guyot)



Rio TioYacu spring recreational park (source: JL Guyot)

MIKAS – Naciente del Río TioYacu

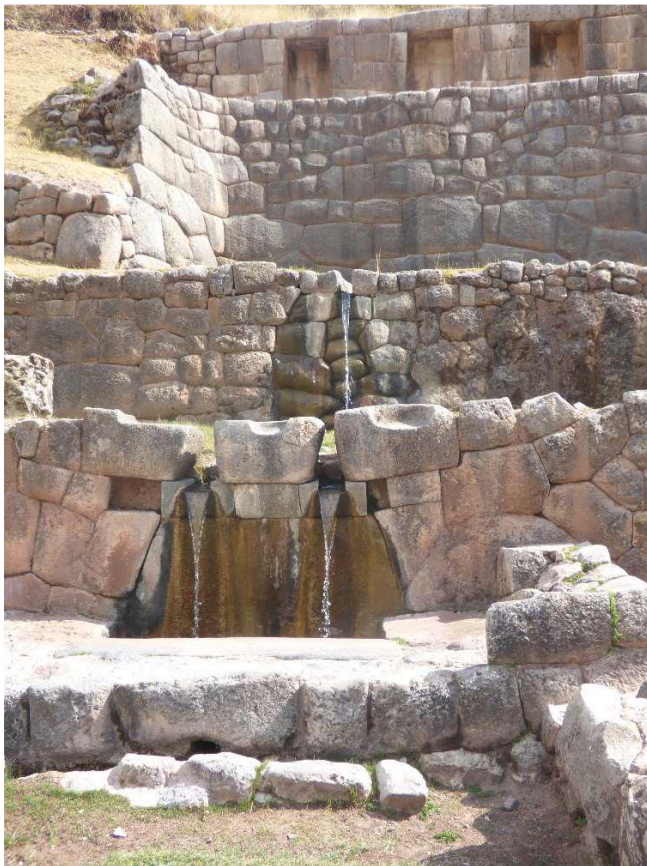


Rio Negro spring (source: JL Guyot)



Discharge zone of the Rio Negro spring (source: JL Guyot)

MIKAS – Tambomachay



Tambomachay spring (source: J. Ccopa)



Tambomachay spring (photo by Z. Stevanović)

NIKAS - Cueva de Palestina / Naciente del Río Jordán



Cueva de Palestina



Rio Jordan, downstream of the Cueva de Palestina

NIKAS - Río Seco – Río Soloco



Cueva del Río Seco entrance (source: JL Guyot)

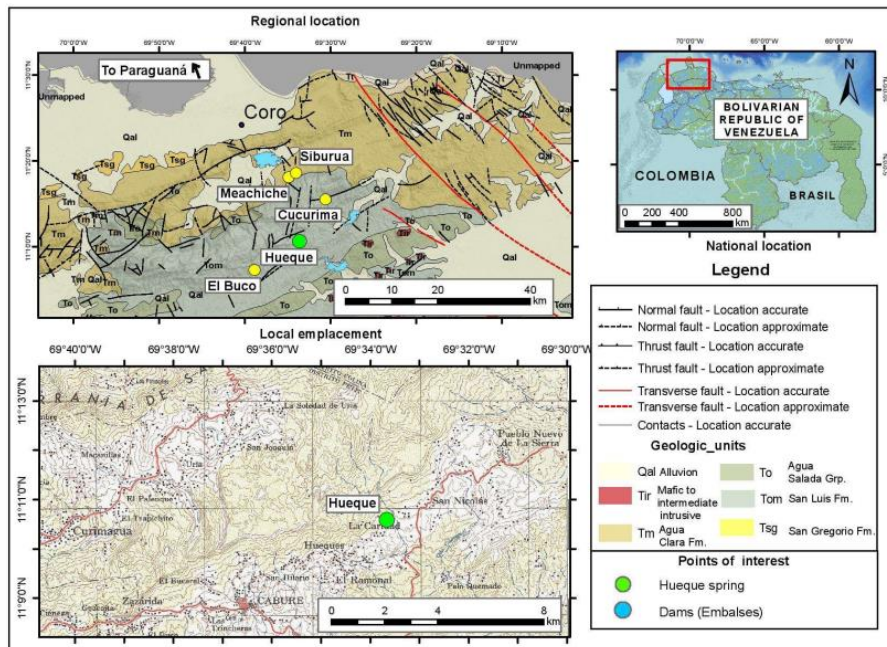


Spring of Río Soloco in flood period, downstream the Cave (source: JL Guyot)

Venezuela



MIKAS – Hueque



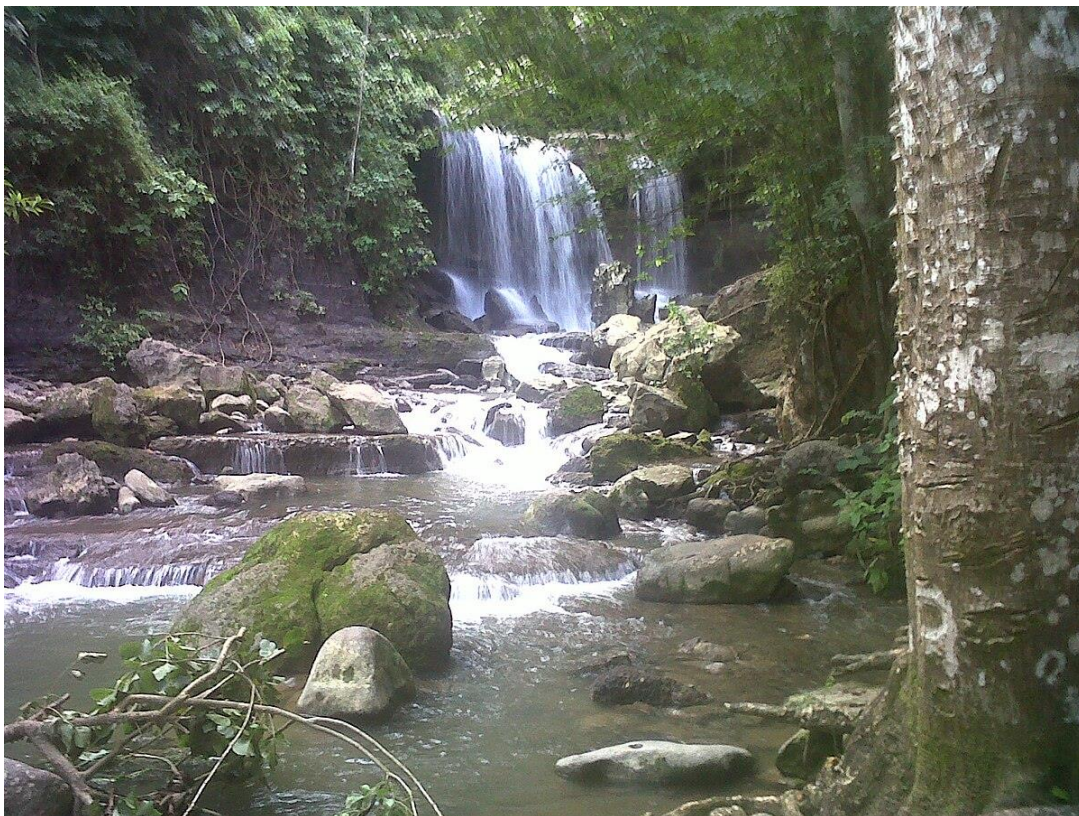
Location and geological map of karst of San Luis Range and local springs



Hueque Spring under flood. Photo by Carlos Bordon.



Hueque water fall. Photo by Carlos Bordon.



Cataratas de Hueque Estado Falcon, Venezuela. Photo by [Loreina Velandia](#). This file is licensed under the [Creative Commons Attribution-Share Alike 3.0 Unported](#) license.

NIKAS – Cucurima, El Buco, Siburúa-Meachine (springs of San Luis Range)

No photos of springs available.

