

## MIKAS and NIKAS springs photo gallery

### ASIA

**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 and 2024), the rest is in chronological order.

China

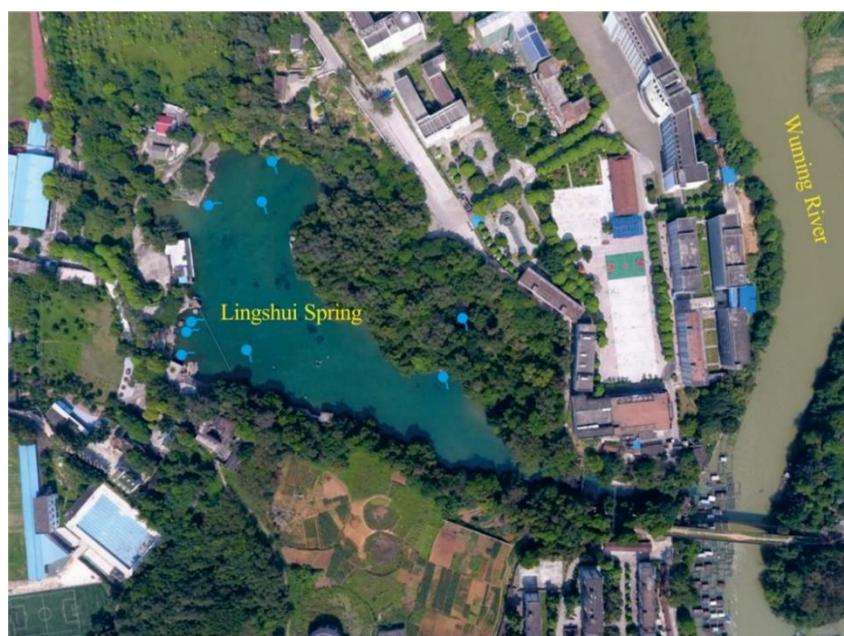


MIKAS – Baotu spring



*Photo of the Baotu spring (source: [http://www.jinan.gov.cn/art/2022/3/9/art\\_135\\_4942367.html](http://www.jinan.gov.cn/art/2022/3/9/art_135_4942367.html))*

MIKAS – Ling Shui



*Lingshui springs group in SW China. The view of the nine spring outlets and the Wuming River.*

**MIKAS – Poxin**

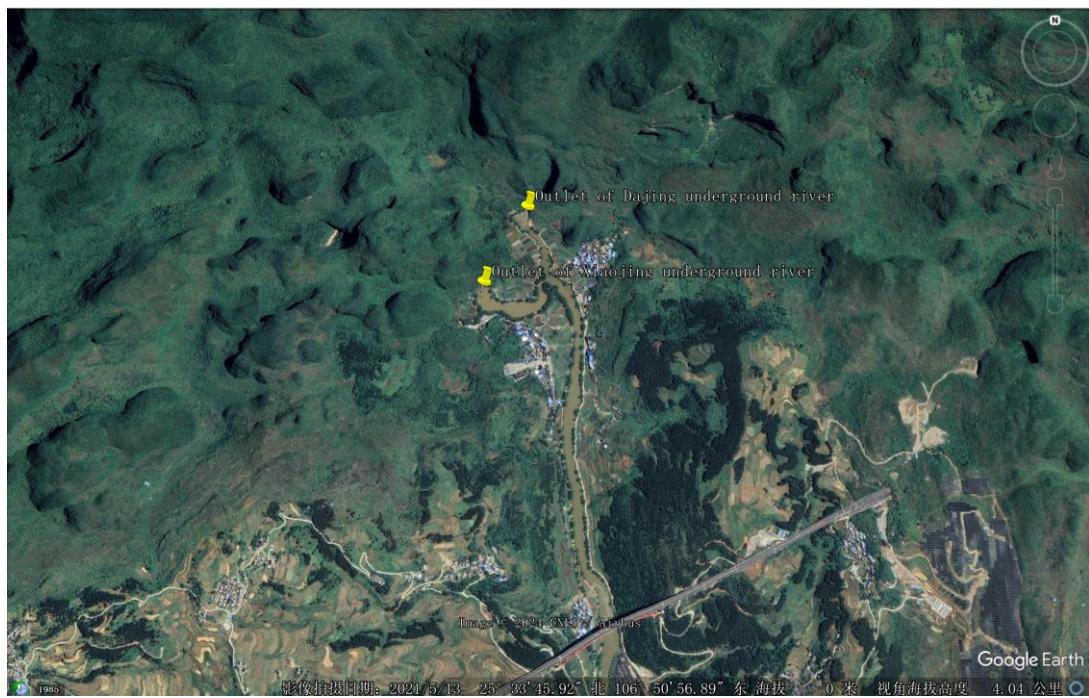


*Jiangzou Natural Bridge (75.5 m in height, 144 m in span)*



*Karst spring's pond and window of the Poxin underground river outlet*

## MIKAS – Daxiaojing underground river system



*Google Earth map with pinned outlet of underground river*



*Outlet of Xiaojing underground river*



Outlet of Dajing underground river

*Outlet of Daxiaojing underground river (Photo Shouyang HE)*



*Underground river for tourism and recreation (Photo Shouyang HE)*

India



**MIKAS – Achabalnag**

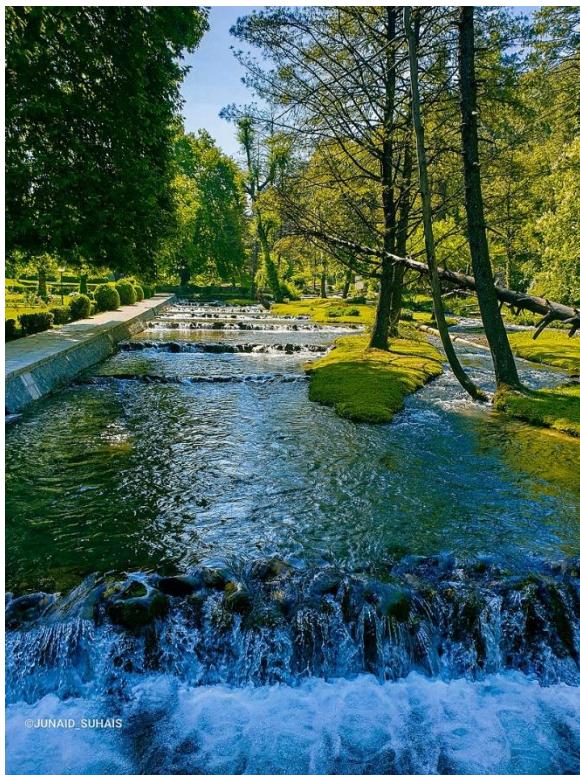


*Achabalnag spring and Mughal garden (source: [en.wikipedia.org/wiki/Achabal\\_Gardens](https://en.wikipedia.org/wiki/Achabal_Gardens))*

**MIKAS – Kokernag**



*Photo of the Kokernag spring surroundings (source: <https://en.wikipedia.org/wiki/Kokernag>)*



*Kokernag spring irrigates botanical garden (source: <https://en.wikipedia.org/wiki/Kokernag>)*

### **MIKAS - Verinag**



*Photo of the Verinag spring and pool (source: <https://en.wikipedia.org/wiki/Verinag>)*



*Photo of the Verinag spring and inscription in Persian (source: <https://en.wikipedia.org/wiki/Verinag>)*

### **NIKAS-Andernag**



*Photo of the Andernag spring (source: Google Earth)*

## NIKAS - Martandnag



*Photo of the Martandnag*

*spring (source: <https://www.kashmironline.com/blog/top-10-springs-in-kashmir/>)*

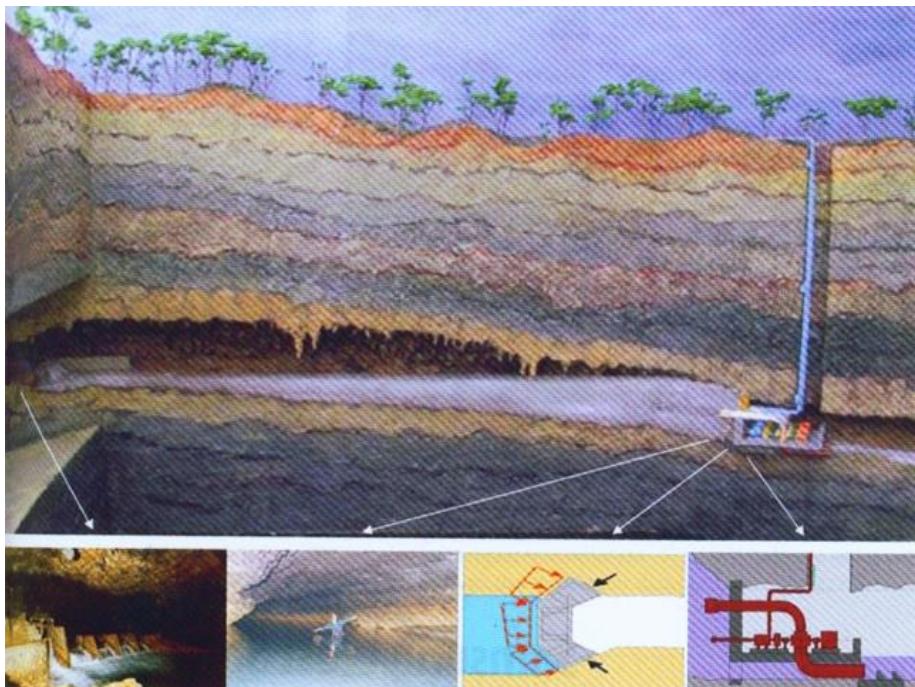
## Indonesia



## MIKAS - Bribin spring (Baron aquifer)



*Bribin underground dam*



*Bribin - Dam and piping scheme underground river*

Iran



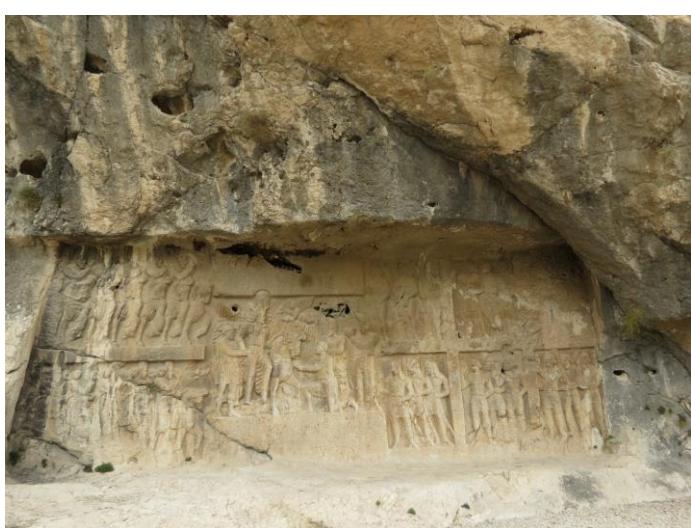
**MIKAS – Sasan spring**



*Sasan spring (Photo by Zoran Stevanović)*



*Entrance into famous Shapour cave in Sasan basin (Photo by Zoran Stevanović)*



*The famous Sassanid rock relief close to Sasan spring showing military campaign (Photo by Zoran Stevanović)*

## MIKAS – Sheshpeer spring



*Sheshpeer Spring issuing from Sarvak formation (Photo by Zoran Stevanović)*

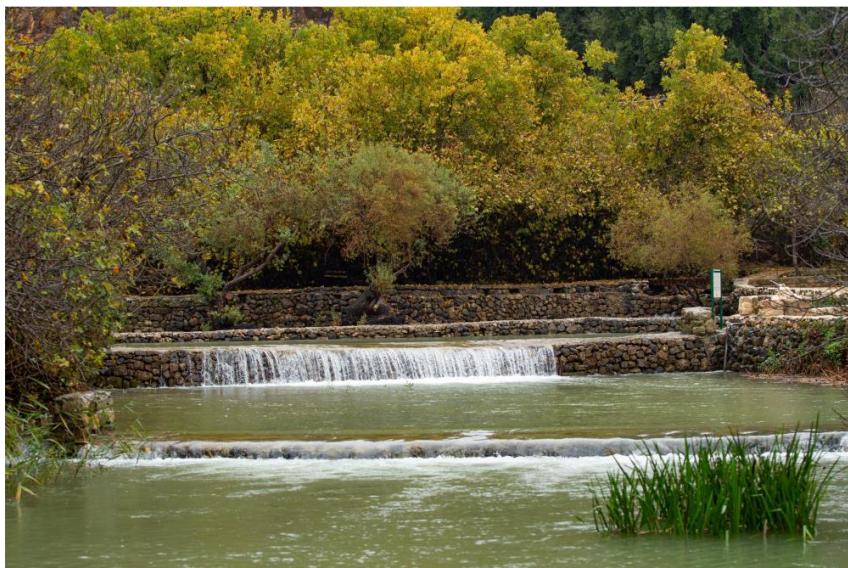


*Barm Firooz anticline – Sheshpeer catchment area (Photo by Zoran Stevanović)*

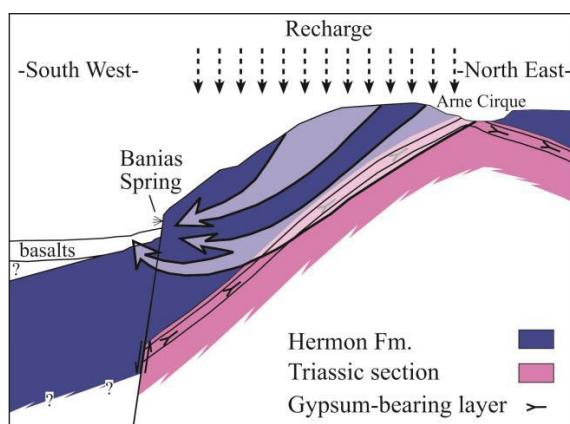
Israel



**MIKAS – Banias**



*Outlet point of the Banias Spring (Photo by Doron Nissim, Israel Nature and Parks Authority)*



*Schematic water flow model in the southwestern part of Mt. Hermon towards the Banias Spring consisting of two components: a deeper flow flushing the Upper Triassic-Lower Jurassic rocks and a shallower flow that runs through the Jurassic Hermon Fm.*

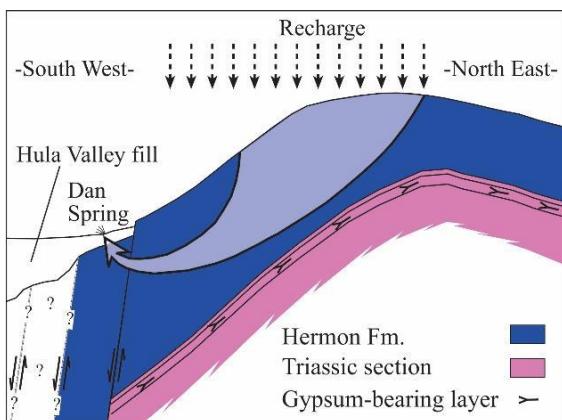


*A waterfall down the spring in the Hermon (Banias) River (Photo by Doron Nissim, Israel Nature and Parks Authority)*

## MIKAS – Dan



*The Dan stream (Photo by Doron Nissim, Israel Nature and Parks Authority). Mount Hermon on which the recharge to the spring is taking place, is visible in the background.*



*Schematic water flow model in the southwestern part of Mt. Hermon towards the Dan Spring*

## MIKAS – Gihon



*The Siloam Tunnel (Photo by Dan Gill)*

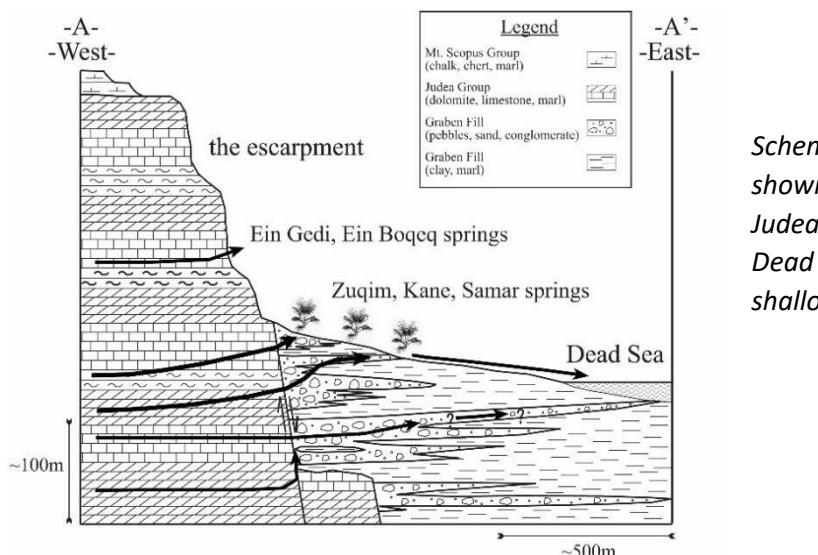


*Location of Gihon and Siloam Tunnel (from Shanks, 2013)*

## NIKAS – Ein Gedi, Shulamit, David, and Arugot



*The waterfall in Ein Gedi National Reserve (Photo by Nissim Keshet, Israel Nature and Parks Authority)*

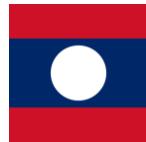


*Schematic geological cross section showing the two flow paths in the Judea Group Aquifer towards the Dead Sea: the deep regional and shallow flow*



*An arid landscape of the eastern Judean desert showing the cliff in the Ein Gedi area above the Dead Sea coast (Photo by Nissim Keshet, Israel Nature, and Parks Authority)*

Laos



MIKAS – Xe Bang Fai Cave



*Photo: 3021\_Ban Laboy, is a photo of the catchment looking upstream from the Ban Laboy ford, just south of the southern boundary of Hin Nam No National Park (Photo by Paul Williams)*



*Photo: 3049\_TXBF Resurgence , is the resurgence/spring of the Xe Bang Fai Cave (Photo by Paul Williams)*

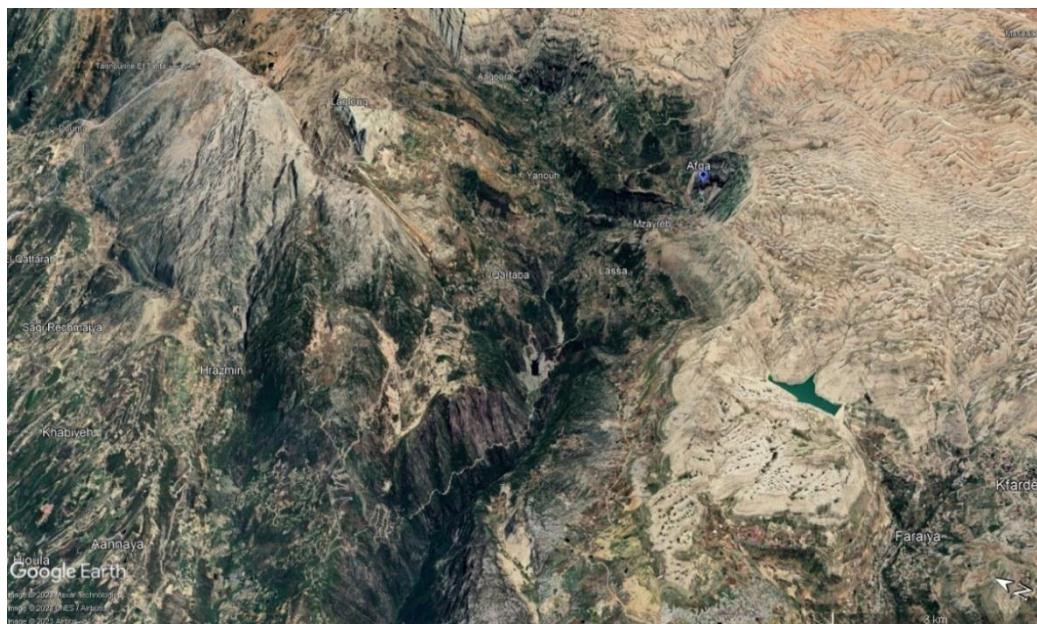


*Photo: 3047\_XBF Sandbank, is looking downstream from the cave resurgence at the pool, sandbank, and river (Photo by Paul Williams)*

Lebanon



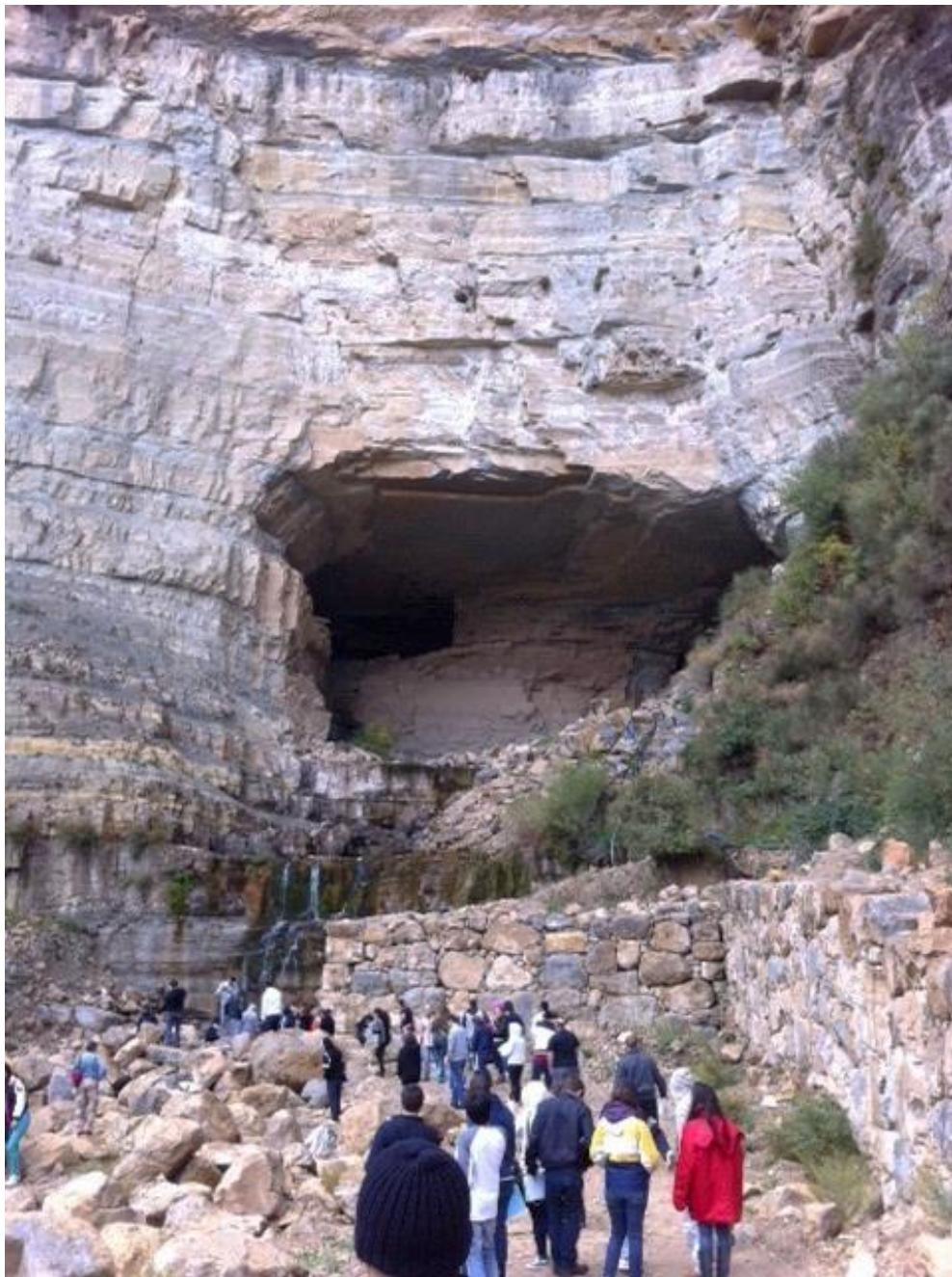
**MIKAS - Afqa spring**



*The catchment area of the Afqa spring extending northeast. Google Earth*



*Afqa Spring during high flow (May- July) (Photo courtesy of Joanna Douummar)*



*Afqa Spring during low-flow (August-February) depending on snow melt*

*(Photo courtesy of Joanna Douummar)*

## MIKAS - Jeita spring



*The original spring entrance (February, 2011) (Photo courtesy of Joanna Douummar)*



*The lower cave (Photo courtesy of Joanna Douummar)*



*The lower cave (Photo courtesy of Joanna Douummar)*

## Jordan



## MIKAS – Tanour spring



Tanour spring head chamber

*Tanour spring (photo by Ibraheem Hamdan, 2016)*

**(a)**



**(b)**



**(d)**



*a. Epikarst zone and karst pavement, b. open conduits due to the weathering process, d. doline (from Hamdan et al., 2020)*

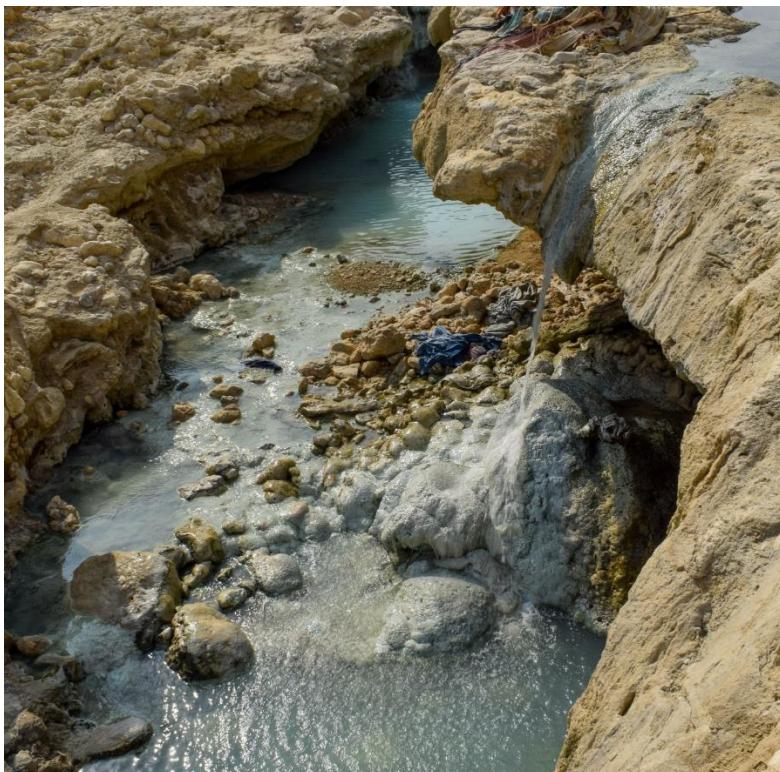
Pakistan



**MIKAS – Lakhi Shah Saddar I**



*Laki Shah Saddar Overview*



*Laki Shah Saddar Spring (summer)*

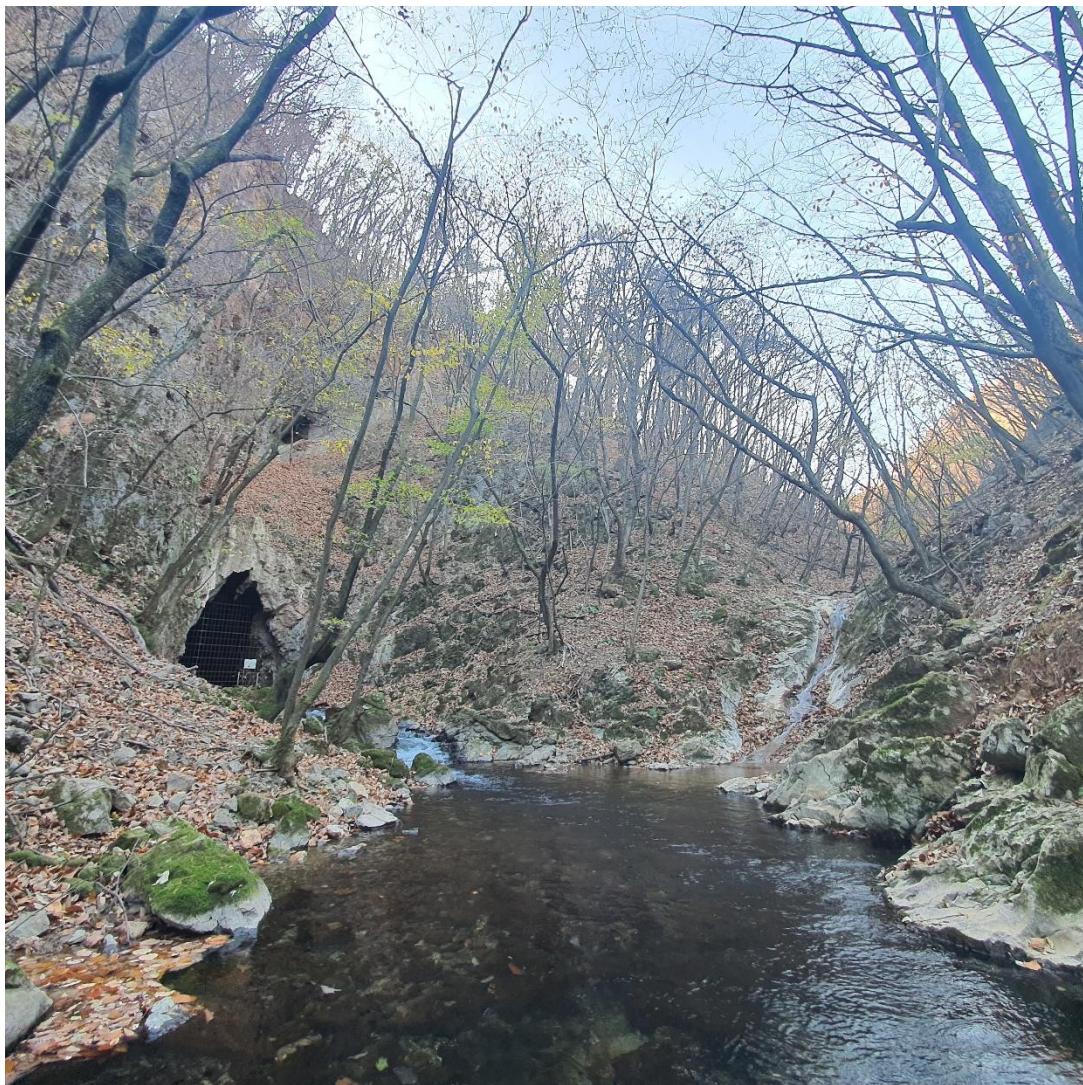
South Korea



MIKAS – Sohan cave



*The entrance of Sohan cave (Photo by Han-Sun Ryu)*



Sohan cave spring forms Sohan stream (Photo by Han-Sun Ryu)



Plate for Sohan Valley Ecosystem and Landscape Conservation Area (Photo by Samcheok City)

## State of Palestine



MIKAS-AI Faria

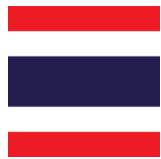


*Al Faria spring niche (source: Palestinian Water Authority)*

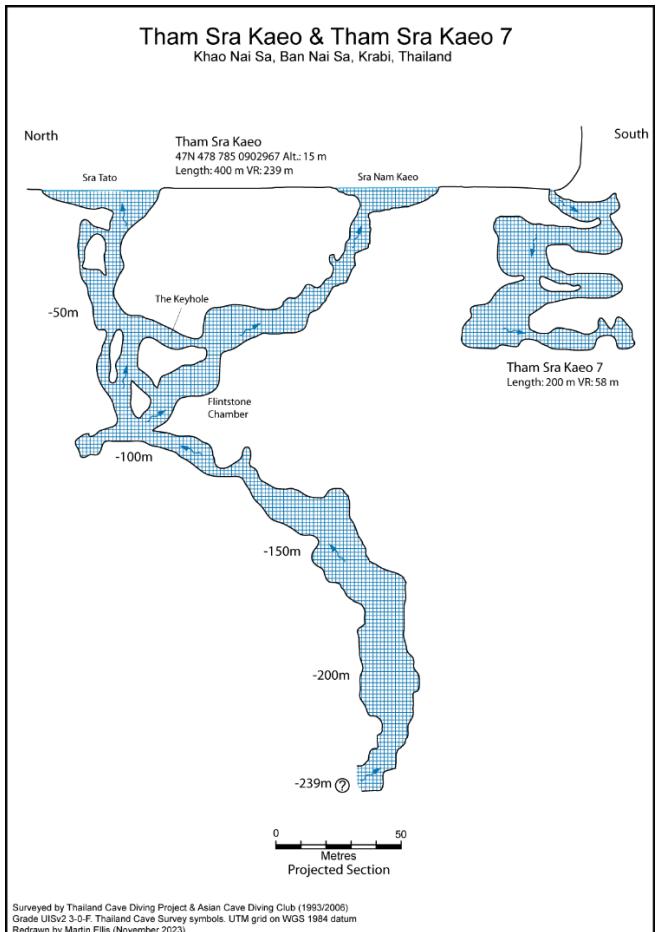


*Seasonal Sanoor depression lake (source: Amer Marei)*

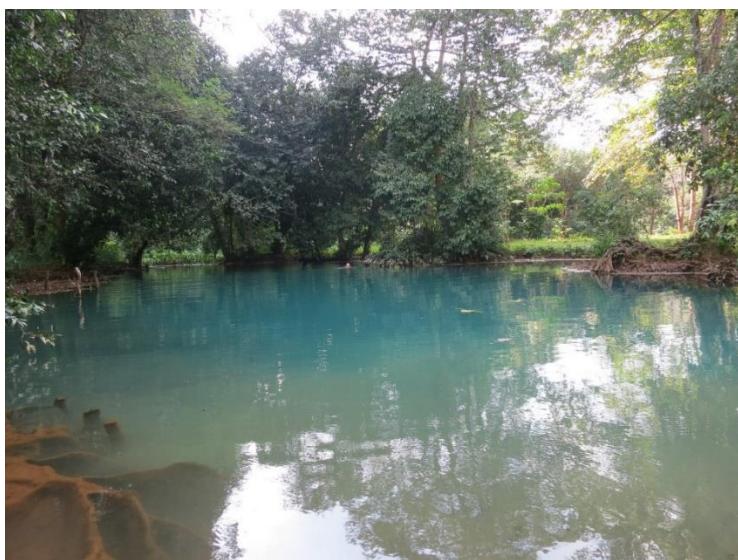
# Thailand



## MIKAS – Sra Kaeo

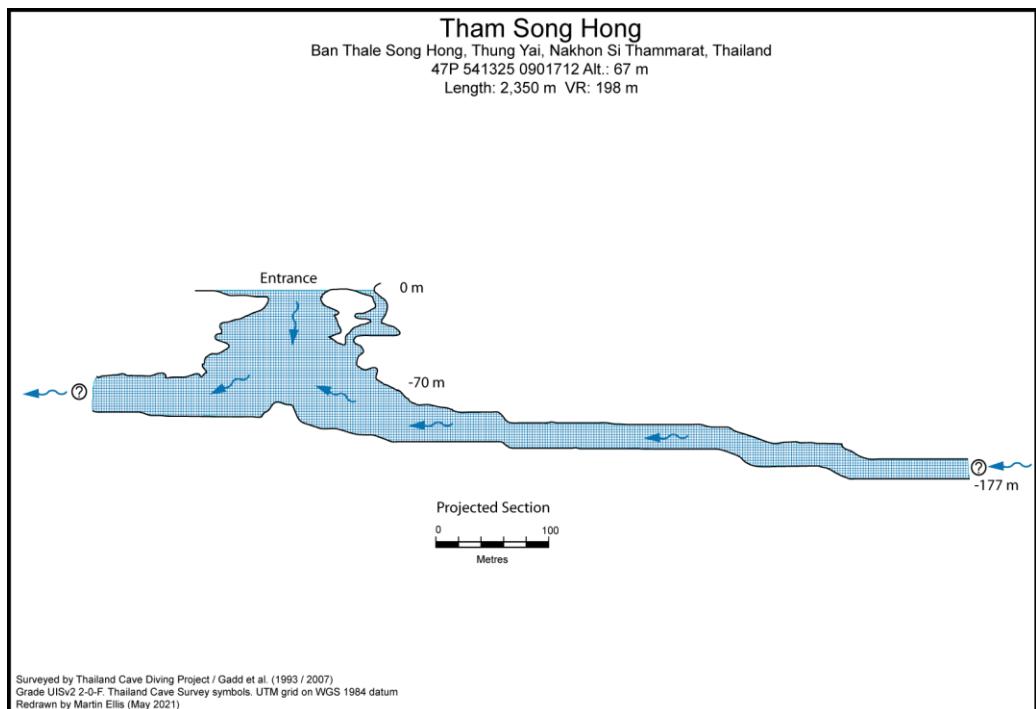


*Cross-section of Sra Kaeo spring's deep siphon*

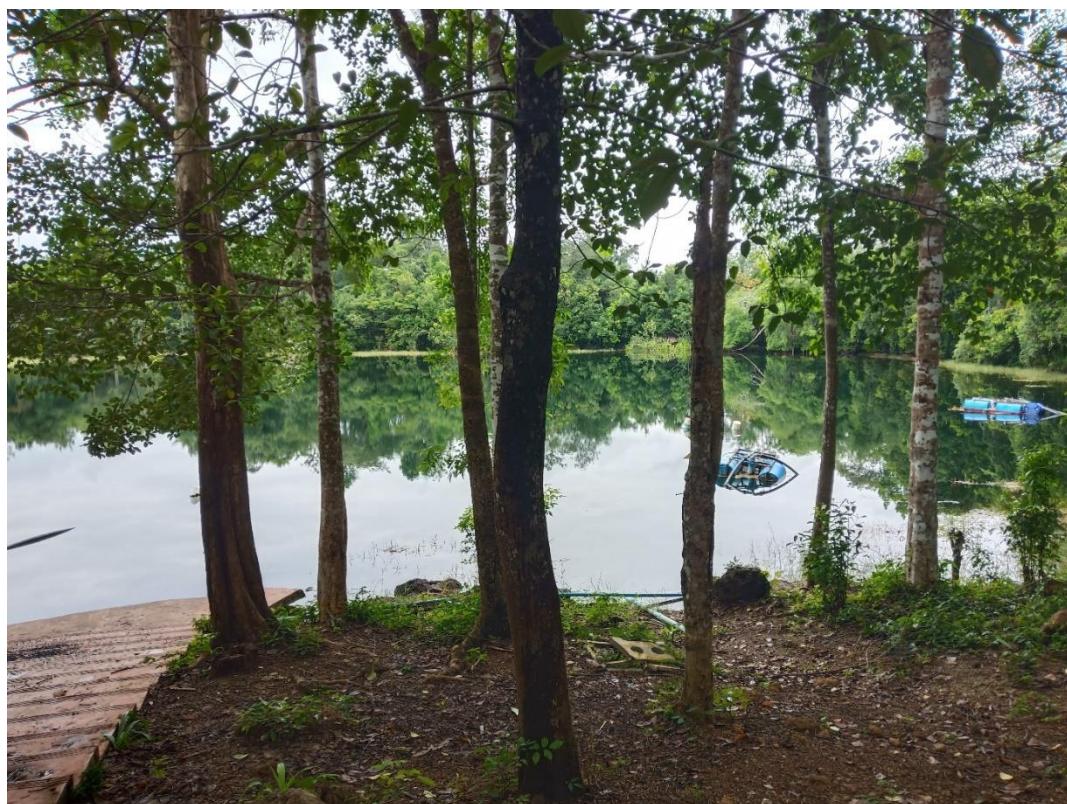


*Sra Kaeo resurgence pool – January 2013 (Photo by M. Ellis)*

## MIKAS – Thale Song Hong



*Cross-section of Thale Song Hong spring's deep siphon*



*Thale Song Hong resurgence pool – October 2020 (Photo by M. Ellis)*

## MIKAS – Sra Khun Nam Morakhot



*Thai rescue teams at the sacred Tham Luang Nang Non cave. (AP: Royal Thai Navy) Taken from: Thai cave rescue: Inside the sacred danger of Tham Luang - ABC News*

[https://www.abc.net.au/news/2018-07-11/thai-rescue-inside-the-sacred-danger-of-thailand-caves/9979052?utm\\_campaign=abc\\_news\\_web&utm\\_content=link&utm\\_medium=content\\_shared&utm\\_source=abc\\_news\\_web](https://www.abc.net.au/news/2018-07-11/thai-rescue-inside-the-sacred-danger-of-thailand-caves/9979052?utm_campaign=abc_news_web&utm_content=link&utm_medium=content_shared&utm_source=abc_news_web)



*Personnel and equipment in the entrance chamber of Tham Luang cave during rescue operations during 26–27 June 2018. Screen capture from NBT news report (from Wikipedia, By NBT - YouTube: <https://www.youtcom/watch?v=f769617oshs> – View/save archived versions on archive.org and archive.today, CC BY 3.0, <https://commons.wikimedia.org/w/index.php?curid=70568175>)*

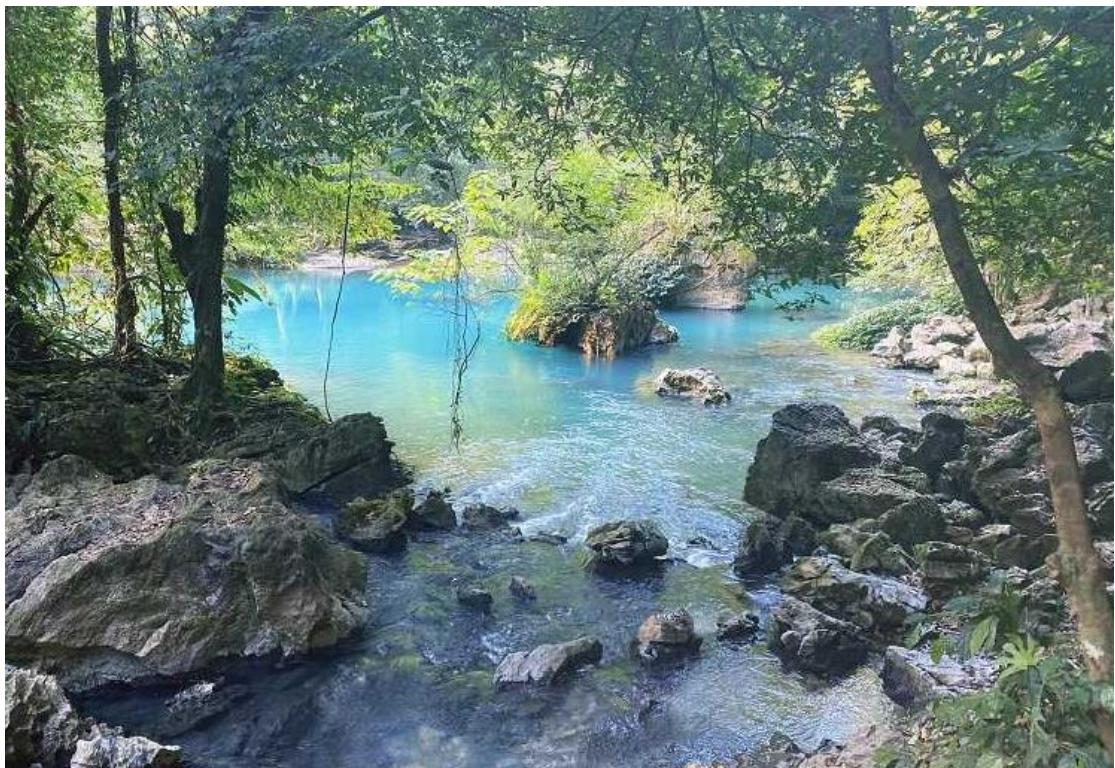
Viet Nam



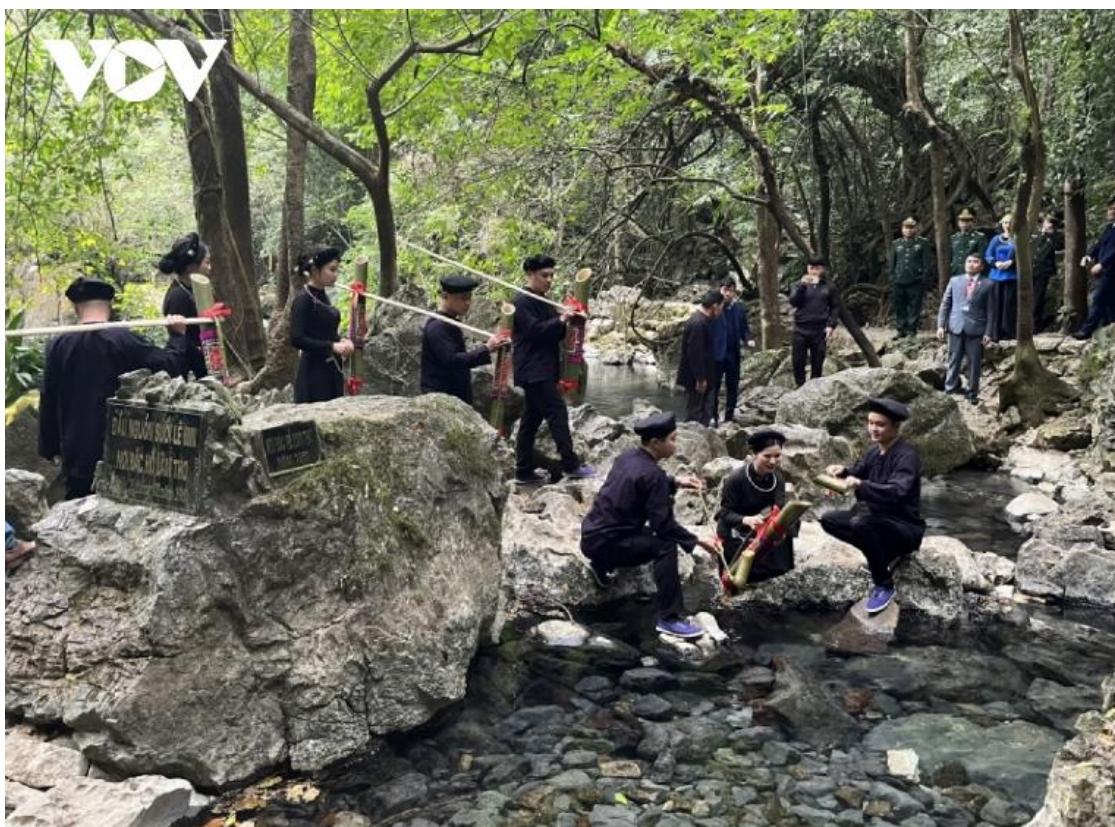
MIKAS – Lenin spring



*The spring landscape is at PacPo commune, HaQuang district, CaoBang province, Viet Nam (photo by VOV)*



*Water flow is from spring at PacPo commune, HaQuang district, CaoBang province, Viet Nam. (photo by VOV)*



*Traditional culture to take water from spring when new year coming. (photo by VOV)*