

MIKAS and NIKAS springs photo gallery

A S I A

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

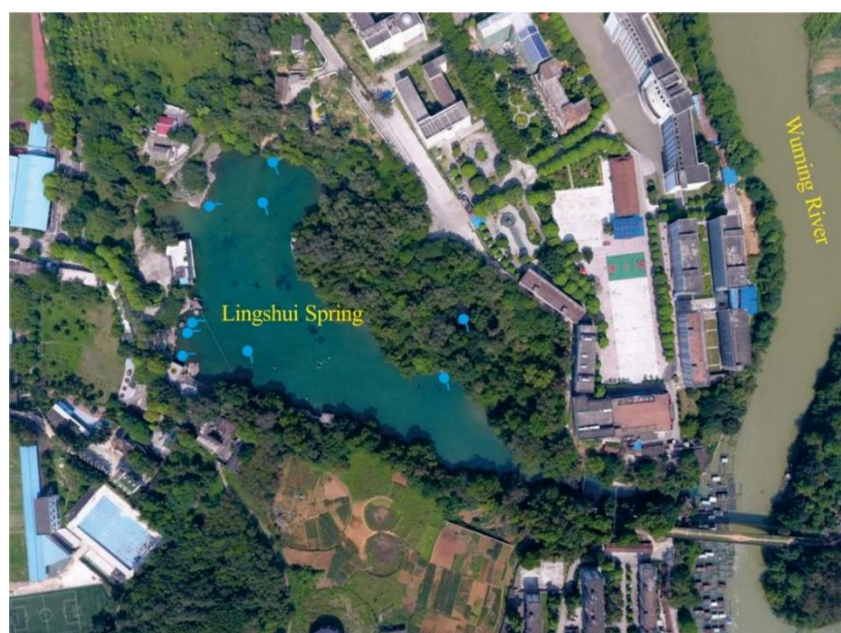


MIKAS – Baotu spring



Photo of the Baotu spring (source: http://www.jinan.gov.cn/art/2022/3/9/art_135_4942367.html)

MIKAS – Ling Shui



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

MIKAS – Poxin

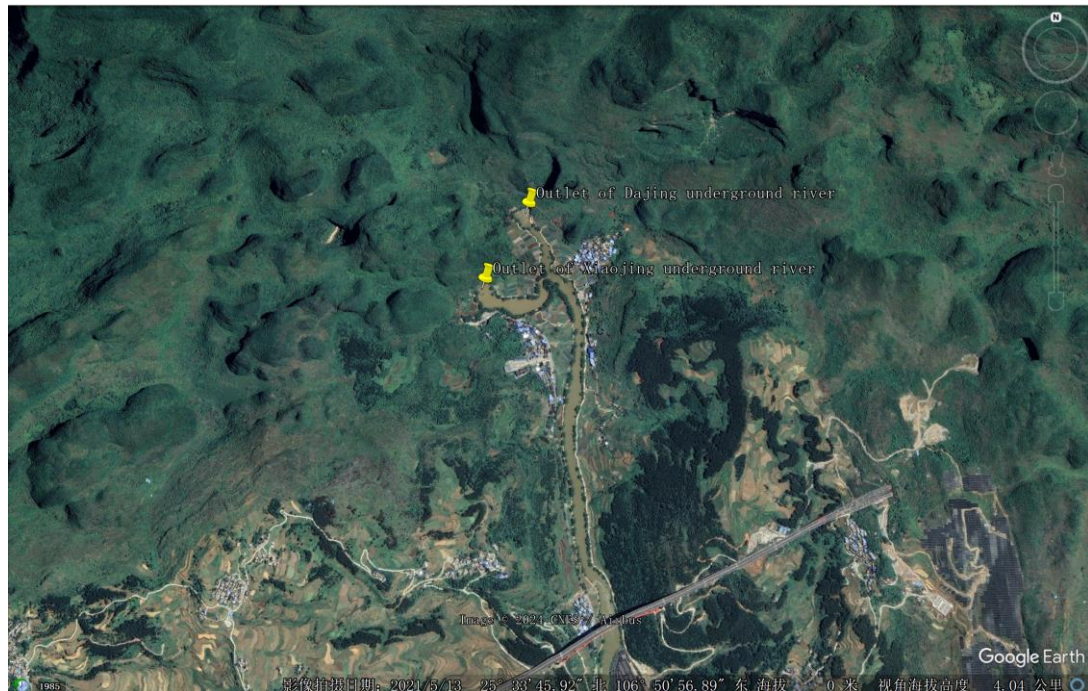


Jiangzou Natural Bridge (75.5 m in height, 144 m in span)



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

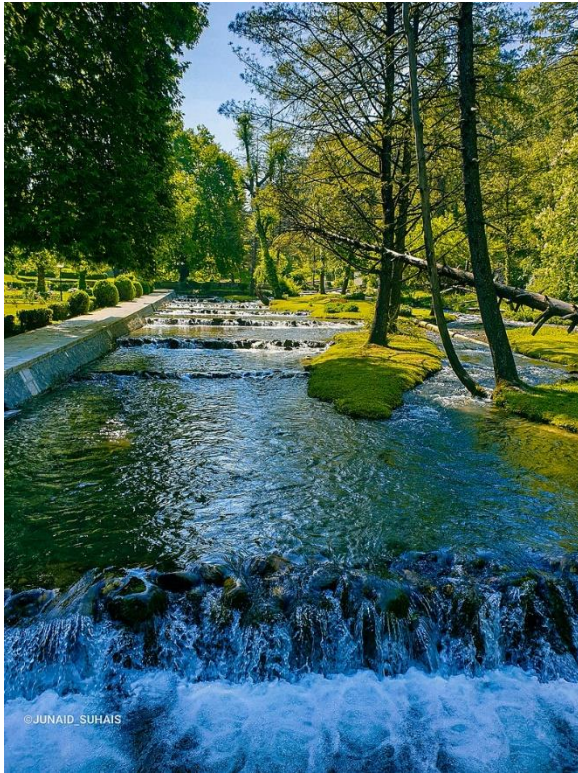


Achabalnag spring and Mughal garden (source: en.wikipedia.org/wiki/Achabal_Gardens)

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 Andersnag spring (source: Google Earth)

NIKAS - Martandnag



Photo of the Martandnag

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

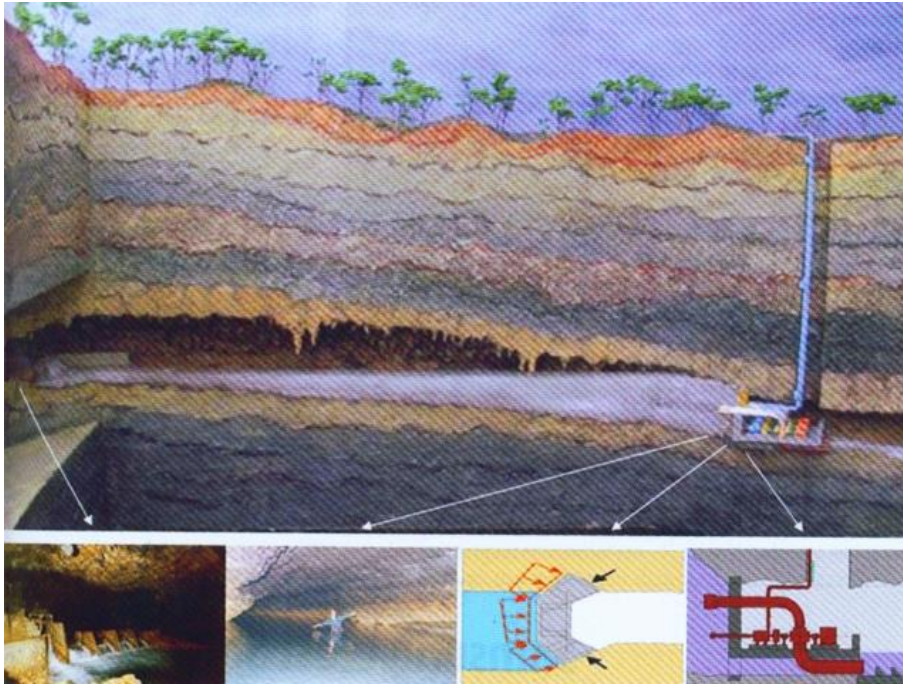
Indonesia



MIKAS - Bribin spring (Baron aquifer)



Bribin underground dam



Bribin - Dam and piping scheme underground river

Iran



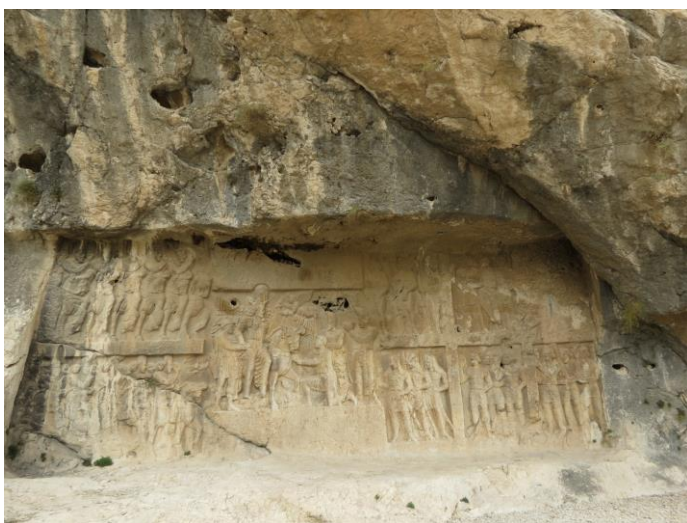
MIKAS – Sasan spring



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)

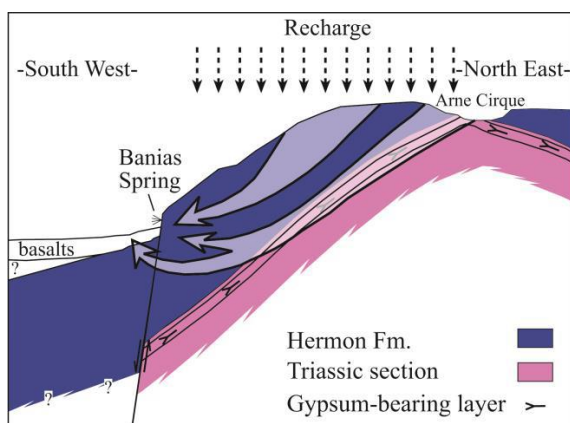
Israel



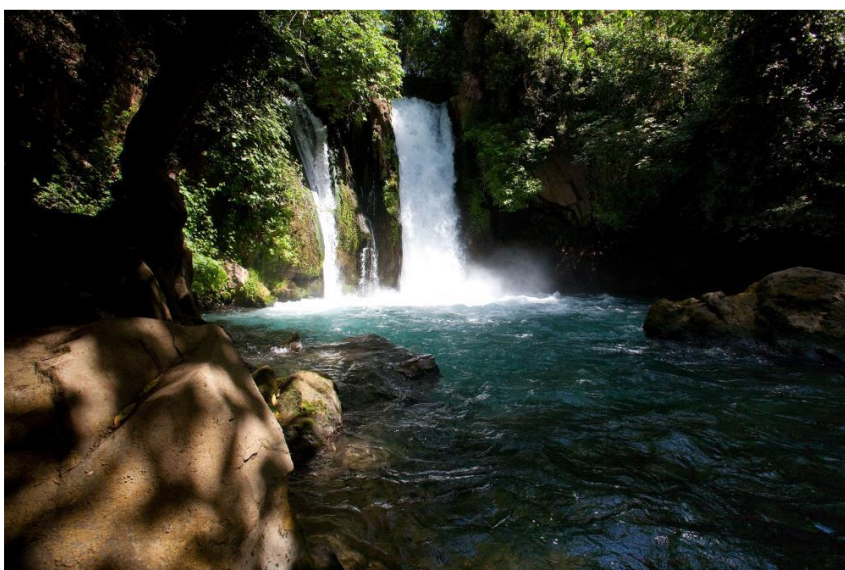
MIKAS – Banias



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.

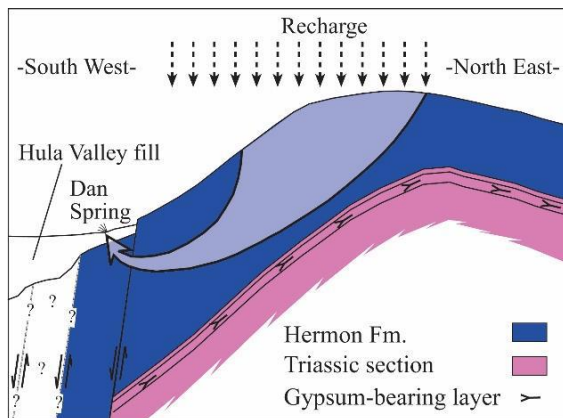


A waterfall down the spring in the Hermon (Banias) River (Photo by Doron Nissim, Israel Nature and Parks Authority)

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)

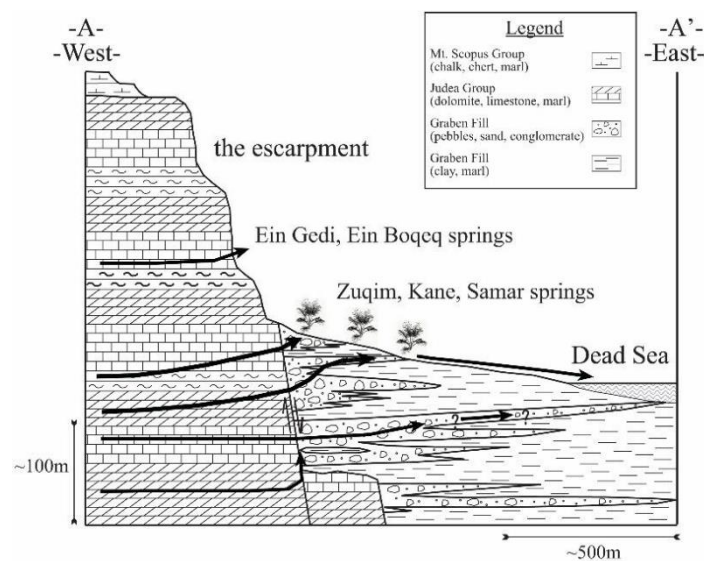


Location of Gihon and Siloam Tunnel (from Shanks, 2013)

NIKAS – Ein Gedi, Shulamit, David, and Arugot



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

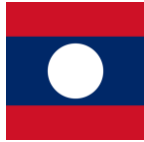


Schematic geological cross section showing the two flow paths in the Judea Group Aquifer towards the Dead Sea: the deep regional and shallow flow



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)

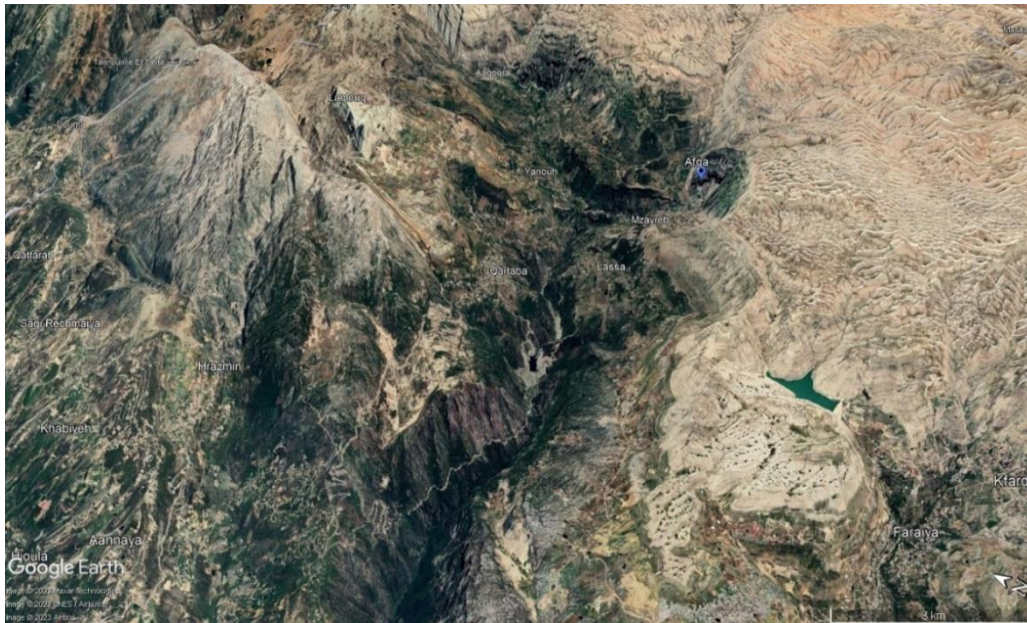


Photo: 3047_XBF Sandbank , is looking downstream from the cave resurgence at the pool, sandbank, and river (Photo by Paul Williams)

Lebanon



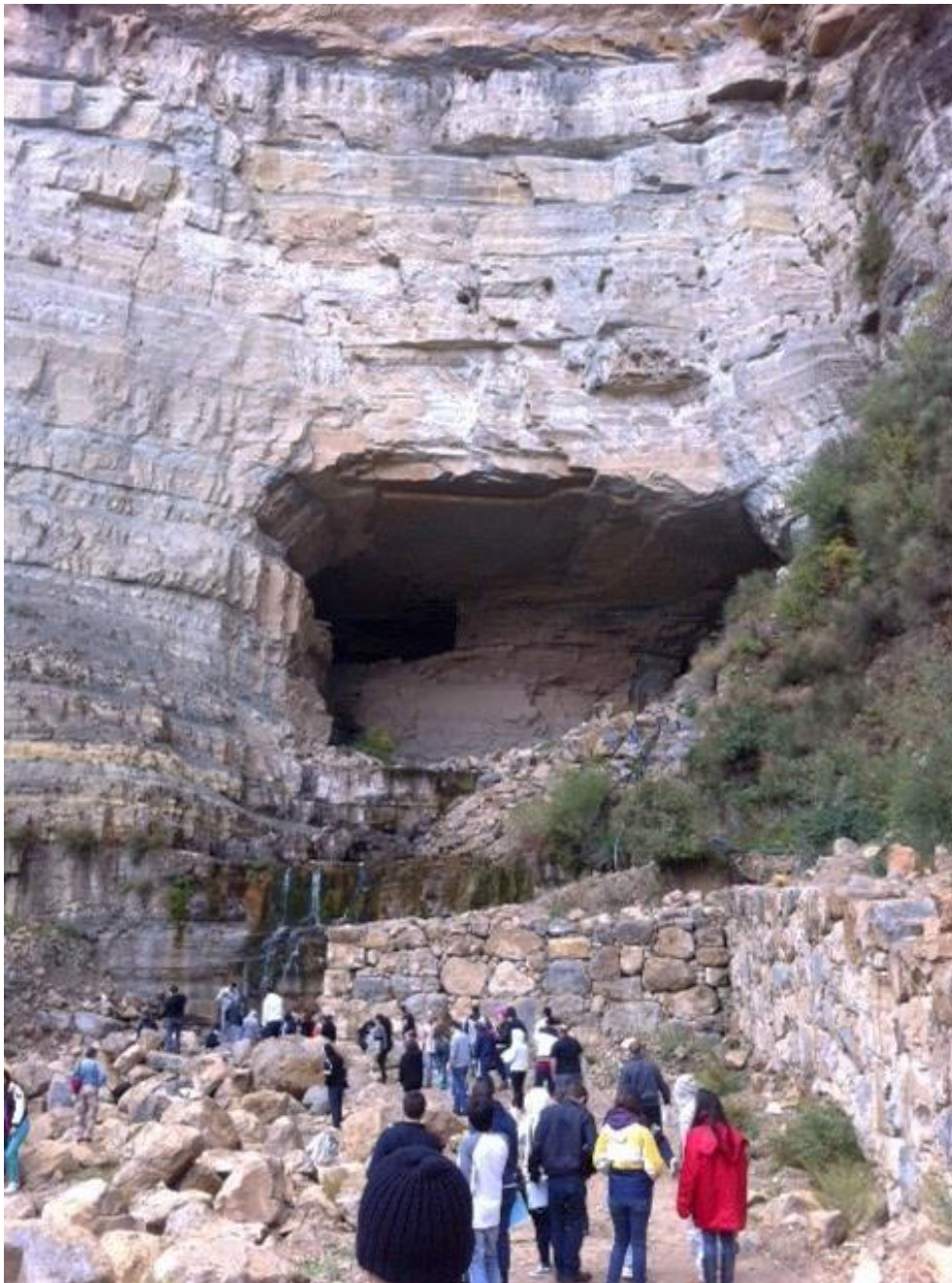
MIKAS - Afqa spring



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



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



*Afqa Spring during low-flow (August-February) depending on snow melt
(Photo courtesy of Joanna Doummar)*

MIKAS - Jeita spring



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



The lower cave (Photo courtesy of Joanna Doummar)



The lower cave (Photo courtesy of Joanna Doummar)

Jordan

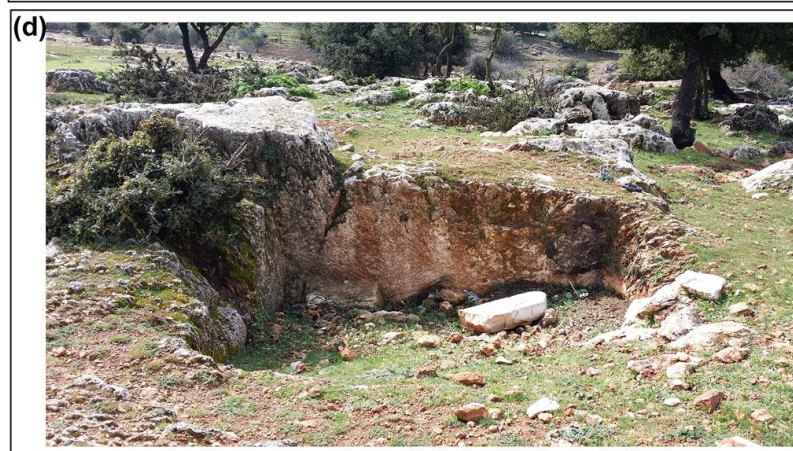
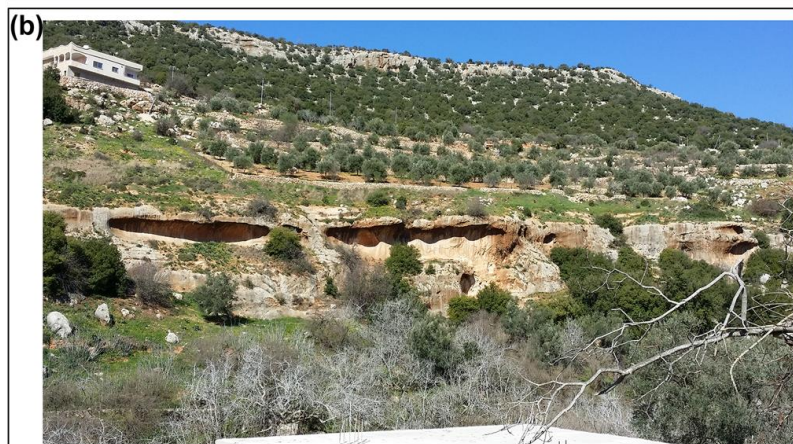


MIKAS – Tanour spring



Tanour spring head chamber

Tanour spring (photo by Ibraheem Hamdan, 2016)



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

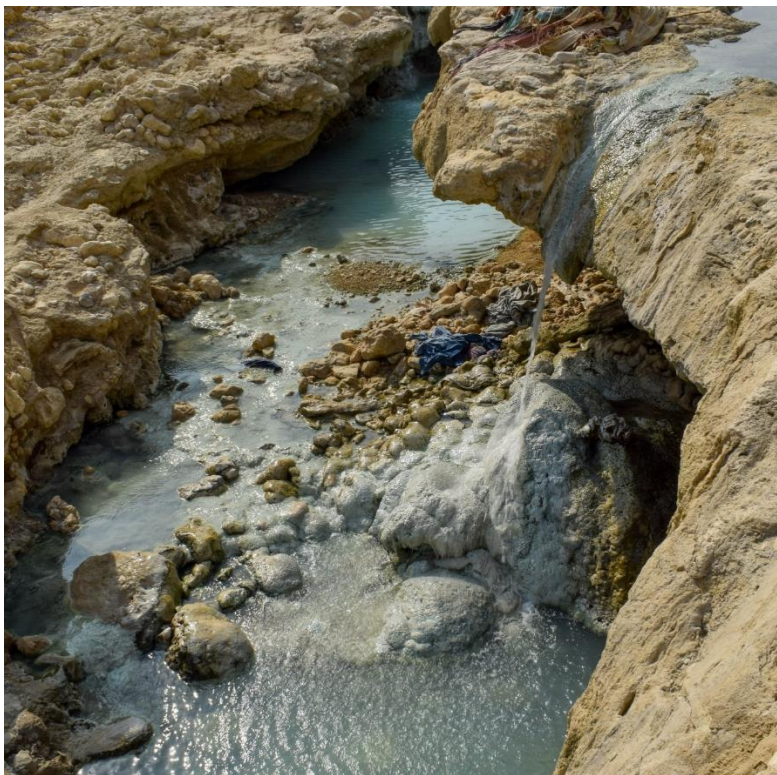
Pakistan



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-Al Faria



Al Faria spring niche (source: Palestinian Water Authority)

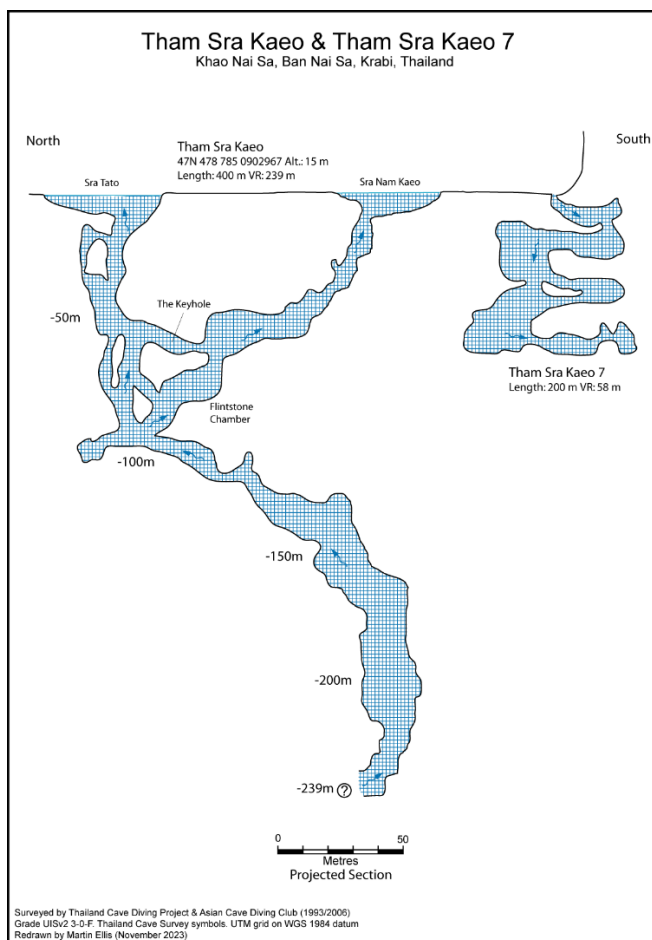


Seasonal Sanoor depression lake (source: Amer Marei)

Thailand



MIKAS – Sra Kaeo

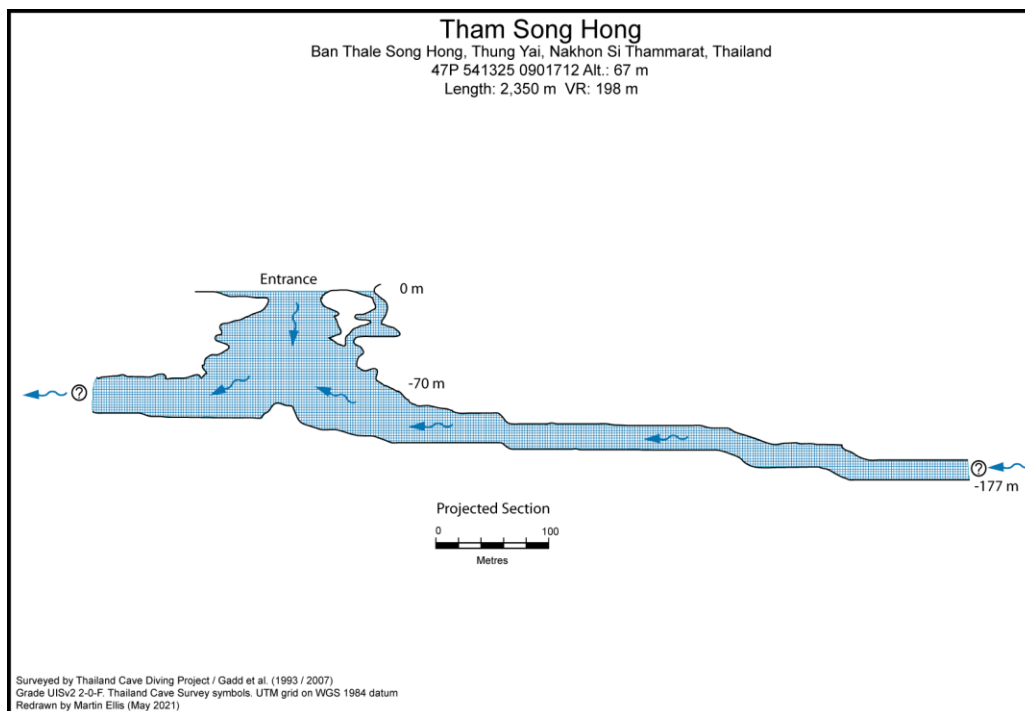


Cross-section of Sra Kaeo spring's deep siphon



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*



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=f7696l7oshs> – 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)