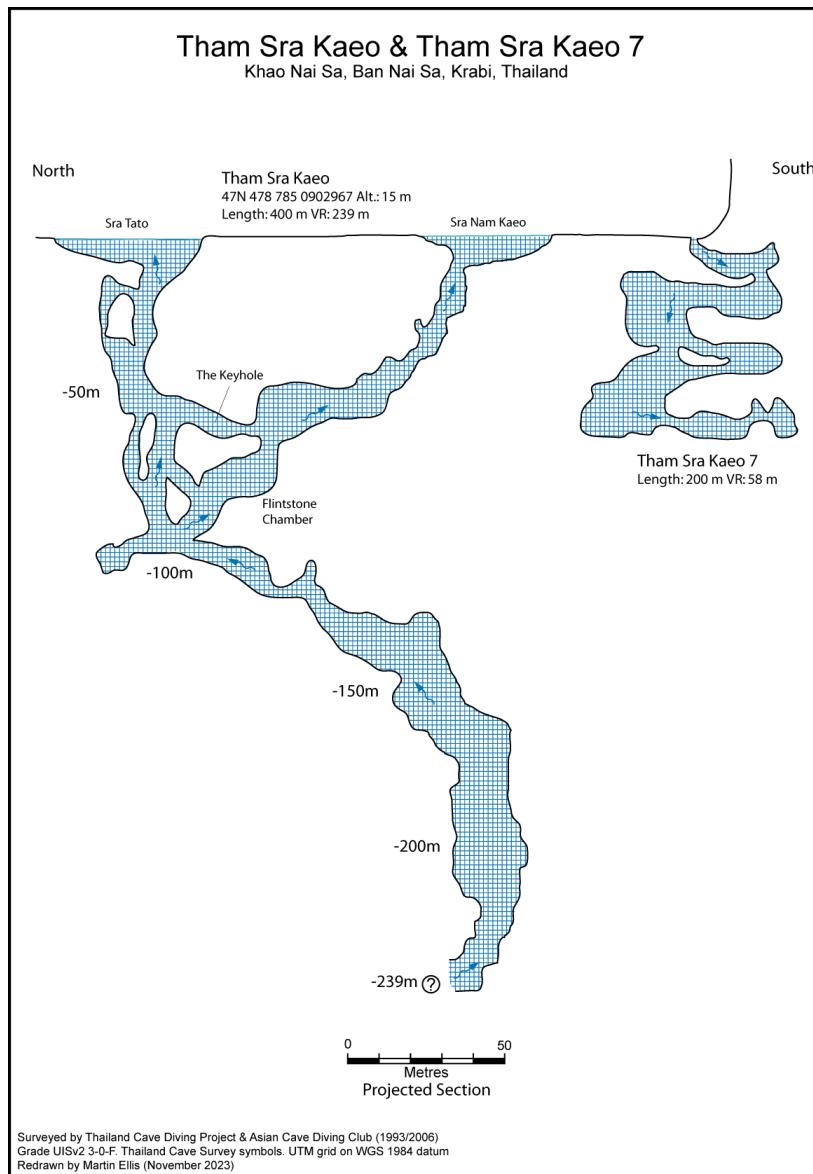




| Country | MIKAS springs | Coordinates / Nearby City | Spring discharge (Q in l/s,min/av/max) / tapped or not | Criteria* in order / Main justification */ H-historic, A-aesthetic, S-scientific, E-Economic, Ec-ecologic | Data collected by |
|----------|--------------------------|---|---|--|-------------------|
| Thailand | 1. Sra Kaeo | 08° 10' 8.1"N 098° 48' 26.3"E Z = 15 m asl Krabi, Khlong Nai Sa | - / 70 / - Not tapped. Used locally for to irrigate palm plantations | S, E, A, Ec <i>The deep siphonal spring issuing from Lower-Middle Permian limestones of Ratburi Group. Very deep spring with fresh water that has been dived to -239 m, which is 224 m below present day sea level, with the coast 7 km to the west. There are two surface pools that connect at -69 m. The spring has been dived to a depth of -239 m making it one of the deepest cave dives in the world. Large speleothems can be found below water from -15 m to -90 m (0 m to -75 m below present-day sea level), showing that at least once in the past the cave was air-filled for a considerable period of time. A speleothem collected from -59 m (-44 m below present-day sea level) was dated to 34.2 ± 4.5 ka BP (Smart, 2003). The site used by several diving schools for deep, technical and cave diving. Sra Kaeo has been used as a film location (e.g. "The Beach (2001)"). It is signposted tourist attraction. There are five other resurgences nearby that has been dived to depths of 56 m to 65 m.</i> | Martin Ellis |
| | 2. Thale Song Hong | 08° 09' 26.4"N 099° 22'30.7"E Z = 65 m asl Nakhon Si Thammarat, Ta Pi | -/ few tens l/s /- The spring is not captured | S, A, E, H <i>As nearby Sra Kaeo the deep siphonal spring issuing from Lower-Middle Permian limestones of Ratburi Group. Very deep spring with fresh water that has been dived to -198 m. Source of water is unknown, but locals say it is 2 km away. There are two surface pools, which join at -30 m, which enter a very deep, slow flowing underground river at -70 m. The water is very clear with 30 m visibility in a passage 20-30 m high. Divers report the system be over 2.5 km long, but it hasn't been mapped. The site is used by dive schools for deep, technical and cave diving courses. There is another large pool (Nong Thale Pron) 1 km to the north and another, fast flowing, resurgence 5 km to the south which are probably part of the same system.</i> | Martin Ellis |
| | 3. Sra Khun Nam Morakhot | 20° 22' 19.4"N 099° 52' 19.8"E Z = 395 m asl Chiang Rai, Mekong | - / 512 / - Not tapped. | S, H, A, E <i>Three different types of spring draining Carboniferous-Permian limestone resurgence into the same pool: (1) permanent; ascending; fresh (2) permanent; gravity; fresh and (3) permanent; gravity; fresh. Water sinking in the Huai Nam Dam valley, to the north of the cave system, has been proven to flow, via the Tham Luang Nang Non entrance chamber, to resurgence (2) (Ponta, 2024). Sra Khun Nam Morakhot</i> | Martin Ellis |

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|--|--|--|---|--|
| | | | <p>is the resurgence for the Tham Luang Nang Non cave system, which became famous in 2018 for the rescue of 13 people who had been trapped by flooding. The 12 members of a junior association football team and their assistant coach were found alive deep inside the cave on 2 July 2018 after they were trapped by monsoonal flooding on 23 June. During the 2018 rescue numerous boreholes were drilled near the spring and the Tham Luang Nang Non entrance in an ineffective attempt to reduce flood levels in the cave. Many of these boreholes hit a limestone karst aquifer at various depths and some were capped for use as a water supply.</p> | |
|--|--|--|---|--|

MIKAS – Sra Kaeo

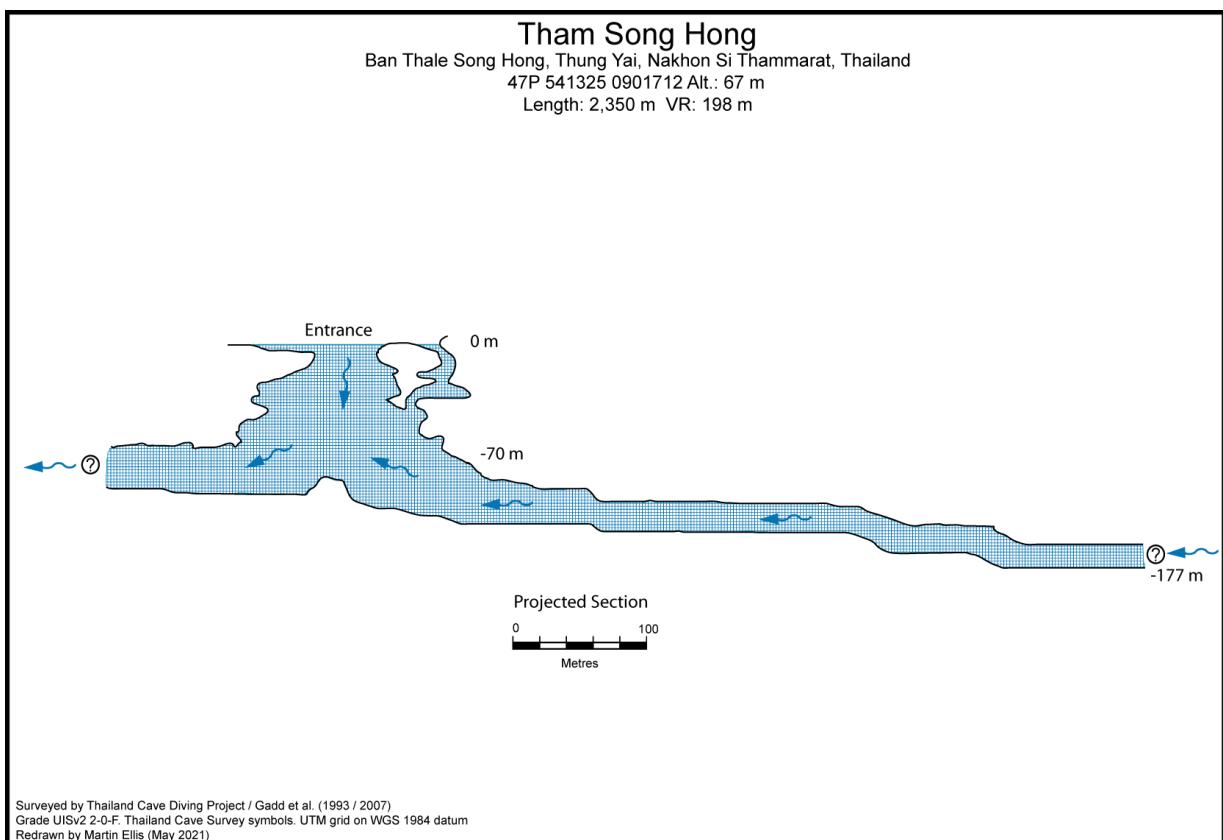


Cross-section of Sra Kaeo spring's deep siphon

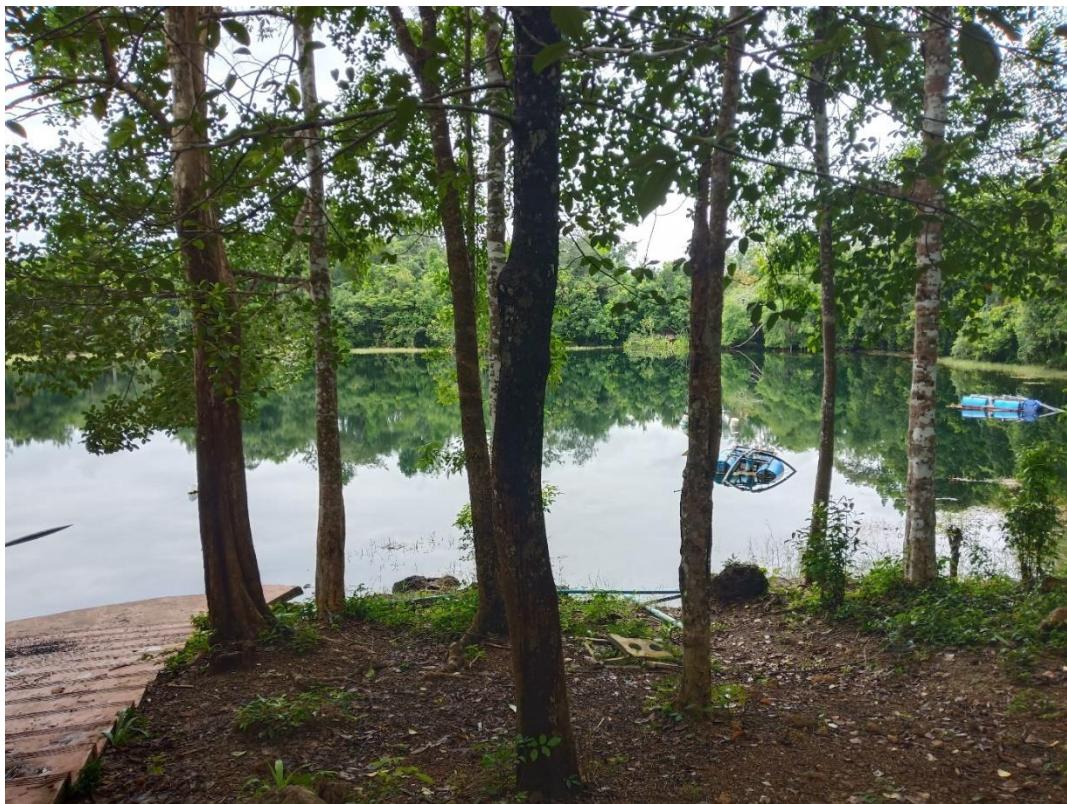


Sra Kaeo resurgence pool – January 2013 (Photo by M. Ellis)

MIKAS – Thale Song Hong

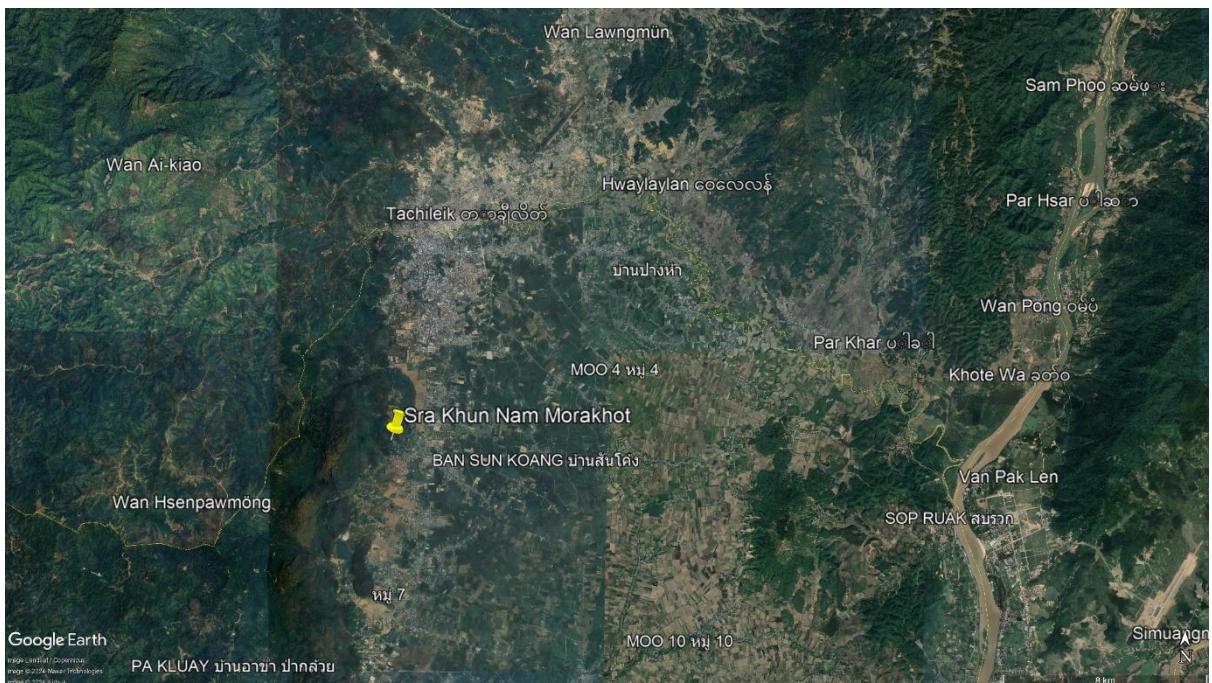


Cross-section of Thale Song Hong spring's deep siphon



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

MIKAS – Sra Khun Nam Morakhot



Google Earth location map



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>)