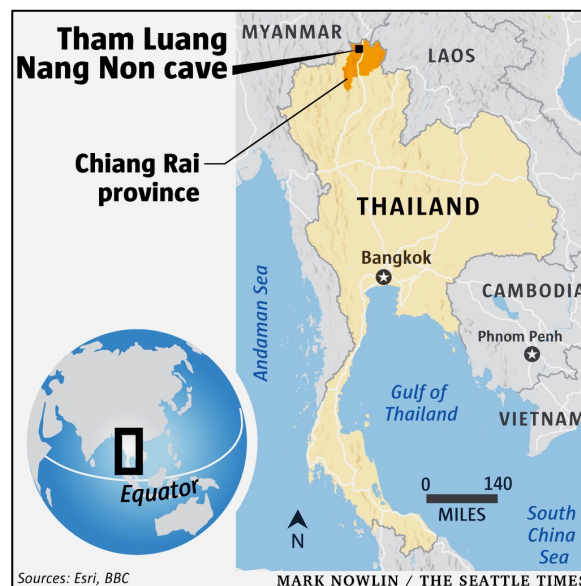


One harrowing adventure



On June 23rd, 12 boys from the Thailand Youth soccer team, the "Wild Boars", went on an excursion with their soccer coach into the Tham Luang Nang Non cave (Great Cave of the Sleeping Lady) that is part of the Tham Luang–Khun Nam Nang Non Forest Park. After their practice soccer game on Saturday morning, the group carried flashlights, and rode their bikes to the cave opening. The boys evidently climbed through narrow tunnels to reach a cavern called "Pattaya Beach". As water quickly began to rise, the team sought higher ground. But the only higher ground was further into the cave system and those higher ledges were where they got stuck.

Can you imagine being stuck on a muddy ledge that you've climbed to after the water kept rising around you ... in the dark, with no food, and no water for nine days?



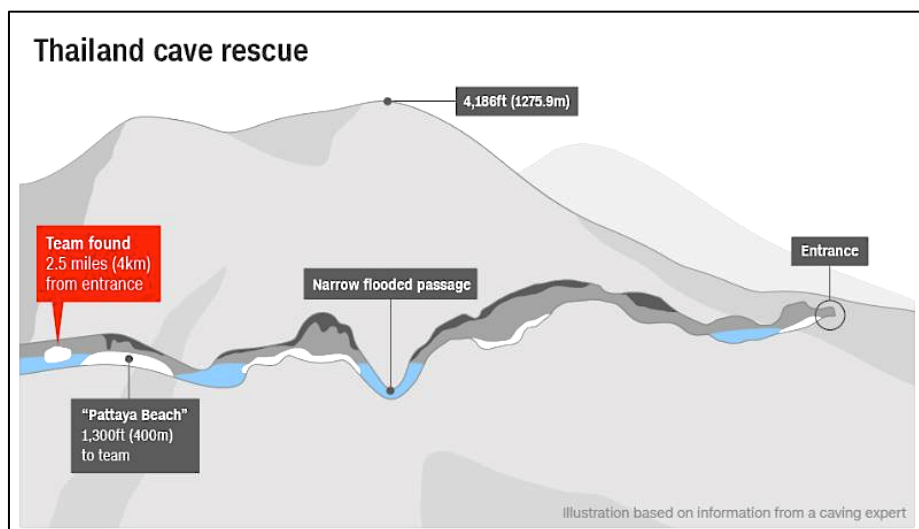
1. Using this map or any other maps that you can locate, describe where this cave complex is in relation to:
 - Thailand
 - China
 - India
 - Australia
 - Europe

The Tham Luang Nang Non cave is just below the Doi Nang Non Mountain. This area is mountainous and jungle covered. The rainy season in northern Thailand had just begun.

The Doi Nang Non Mountain is pretty tall (4,186 feet or 1,276 meters) and the Tham Luang Nang Non cave entry is pretty low comparatively (about 1,024 feet or 312 meters). Rain from anywhere on the mountain would surely flow downhill and seep into the mountain through any crevices.

We were surprised by a number of events and observations that were made during the boys rescue. They had carried flashlights and some snacks to celebrate one of the boys' birthday into the cave. When the cave began to flood they were about 2 miles (3.5 km) into the cave at "Pattaya Beach".

2. Why do you suppose they went further into the cave complex instead of heading back towards the cave entrance?



3. Using your intuition about walking and climbing rates, how long do you suppose the boys had been in the cave complex before the flooding began?

Evidently each rescue diver's trip into the cave and return with one boy took about 11 hours.

4. About what rate does that imply for the traverse to and from the ledge where the boys were found?

5. Create a somewhat mathematical question that you wondered to bring to your class tomorrow. Through research try to be ready with an answer to your question.

Sources: <https://www.news24.com/World/News/infographic-where-were-the-missing-thai-boys-found-see-here-20180706>
<http://www.eveshamjournal.co.uk/news/national/16340515.thai-caves-latest-four-boys-free-after-two-week-ordeal/>
<https://www.seattletimes.com/nation-world/apxlull-in-rain-allows-thailand-cave-rescue-to-pick-up-pace/>
<https://www.wsj.com/articles/thai-rescuers-begin-perilous-operation-to-free-trapped-soccer-team-1531023230>
<https://www.telegraph.co.uk/news/2018/07/09/thai-cave-rescue-enters-second-day-trapped-boys-wait-operation/>
<https://www.theguardian.com/world/ng-interactive/2018/jul/03/thailand-cave-rescue-where-were-the-boys-found-and-how-can-they-be-rescued>