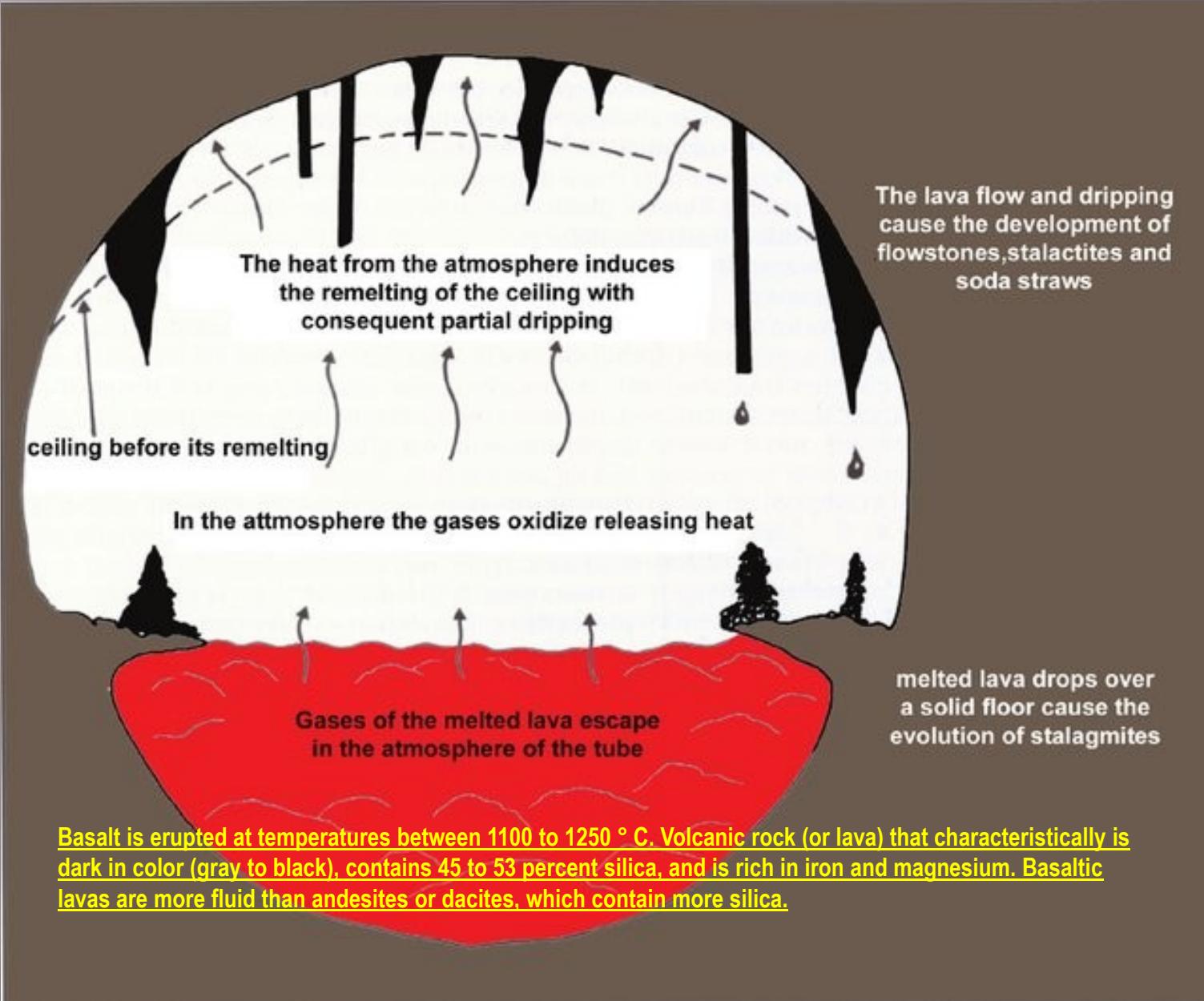


LÁVOVÉ JESKYNĚ (PYRODUCCTS, LAVA TUBES)



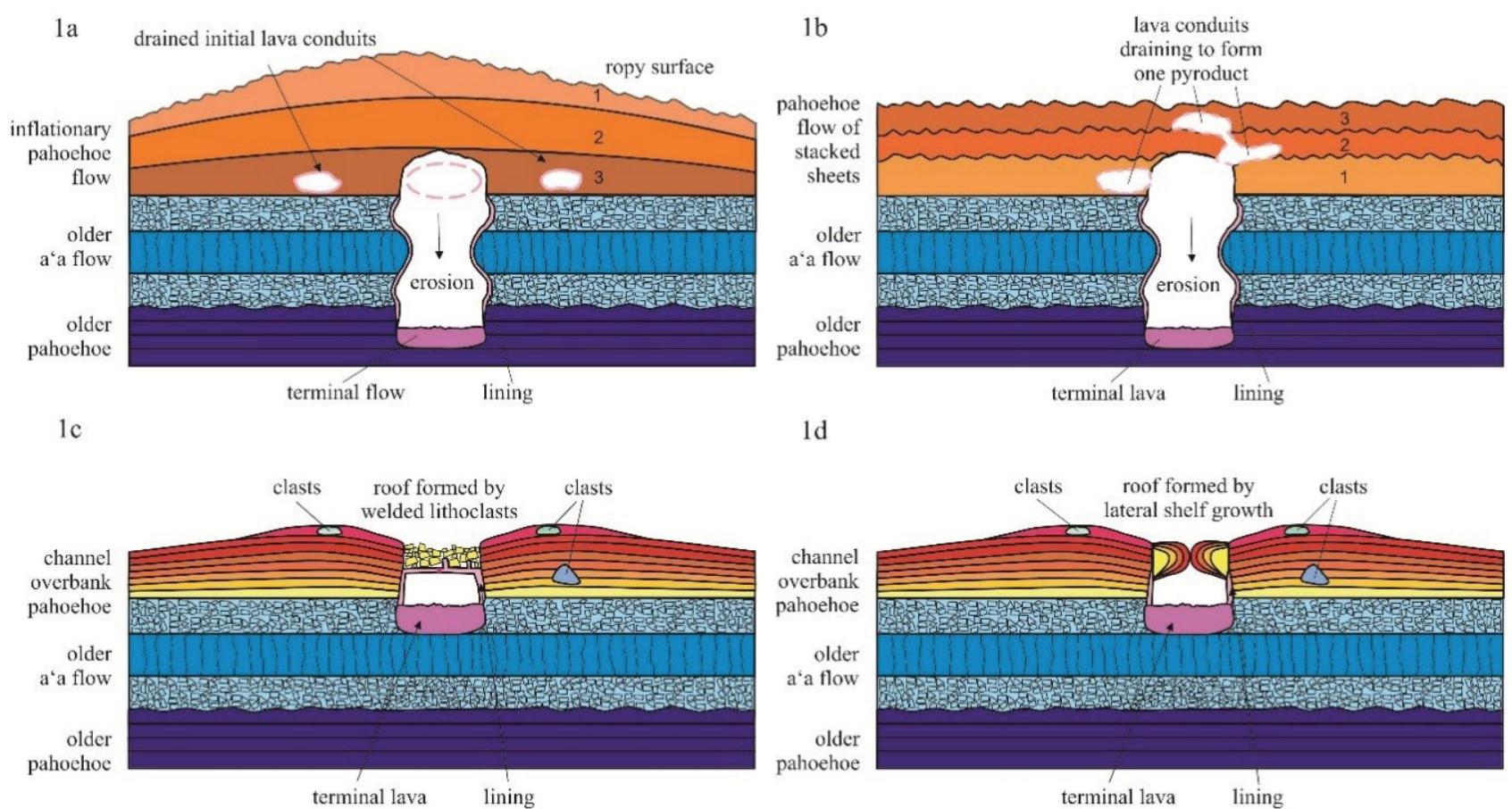
TYPY LÁVOVÝCH JESKYNÍ

(podle Kempe et al. 2017)

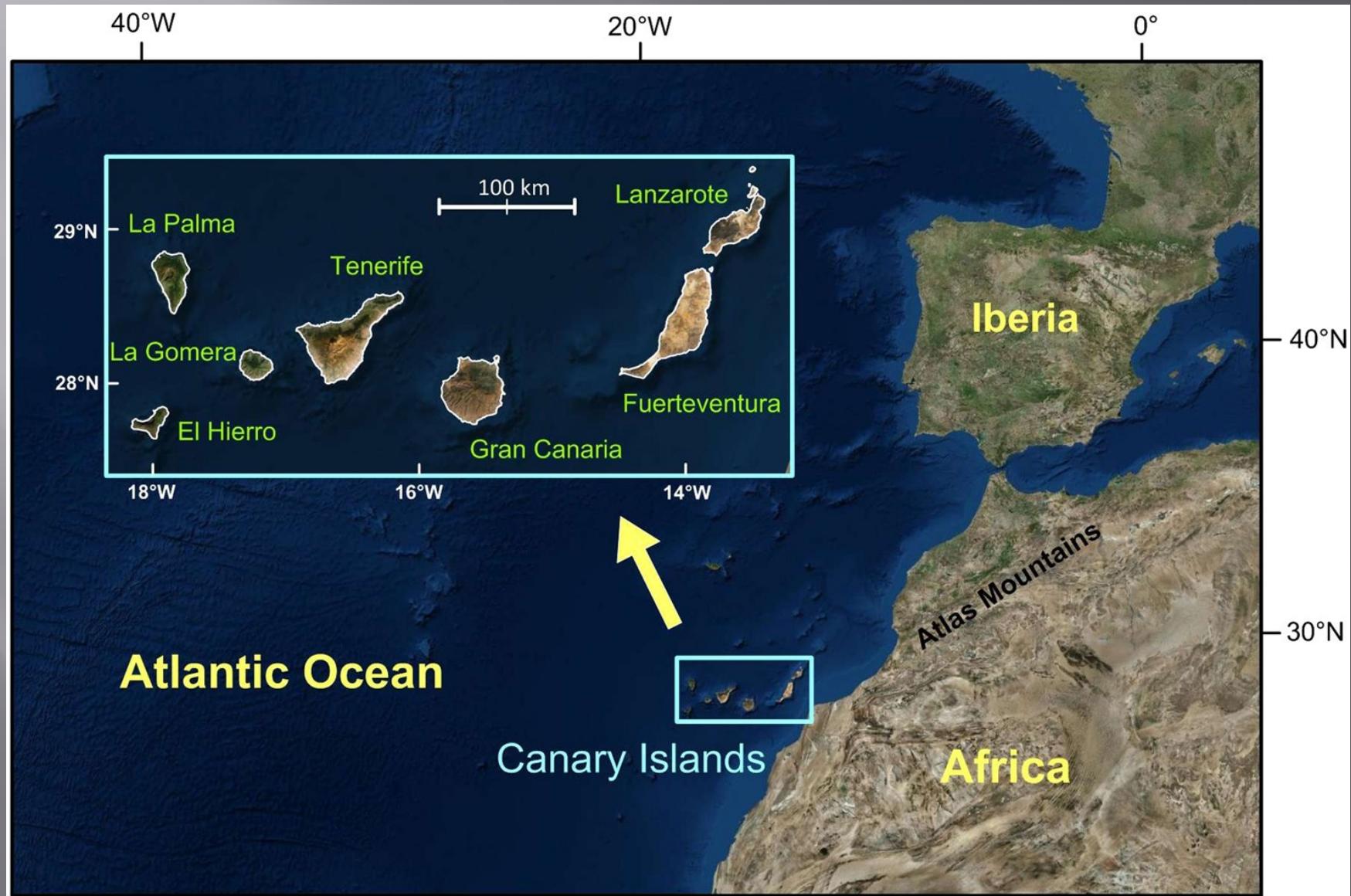
1. Tunely vzniklé podpovrchovým prouděním lávy a následnou erozí směrem dolů
2. Jeskyně vytvořené splynutím menších chodeb a následující erozí
3. Jeskyně vytvořené „zastřešením“ lávy plovoucími litoklasty, které se ve žhavém stavu spekly
4. Kanály, které se překryly krustou akrečně narůstající z boků až do úplného uzavření

GENEZE LÁVOVÝCH JESKYNÍ

(Stephan Kempe, 2017)



LÁVOVÉ JESKYNĚ LANZAROTE



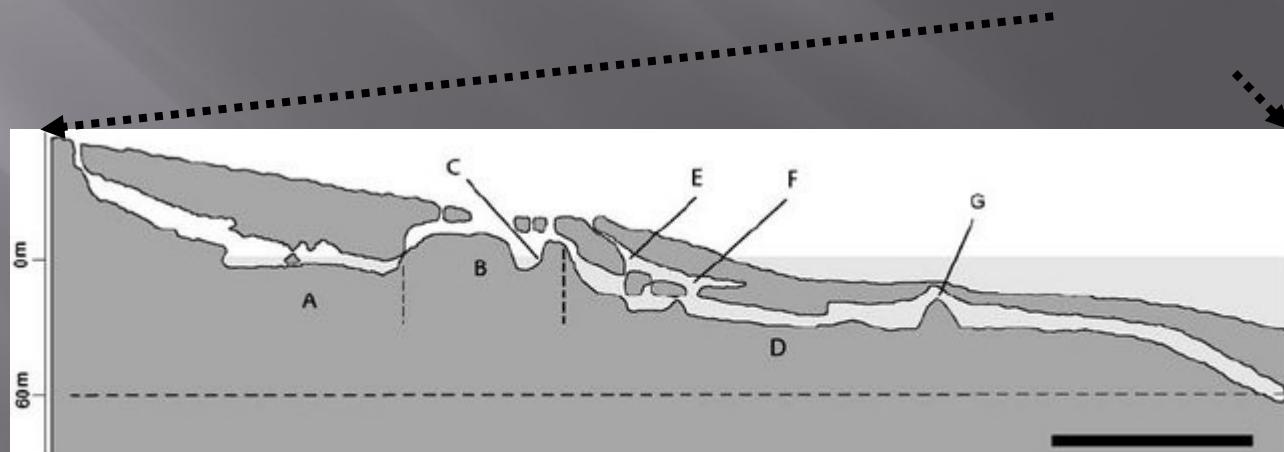
SOPKA CORONA VPRAVO NAHOŘE



Fig. 2 Schematic cross-section of the anchialine portions of the Corona lava tube. a Cueva de Los Lagos. b Jameos del Agua lagoon (dotted transversal lines reproccupied by the tourist complex). c Position esent the approximated area of the carpet of diatoms in the lagoon. d Túnel de la Atlántida. e Lago Escondido. f Dome room. g Montaña



This figure was uploaded by [Thomas M Iliche](#)





a



b



c



d



e



f

LOS JAMEOS DEL AGUA





ENDEMIT - slepý krab (*Munidopsis polymorpha*).



Manrique Cesar, dotvoření přírody

Základy speleologie, podzim 2023





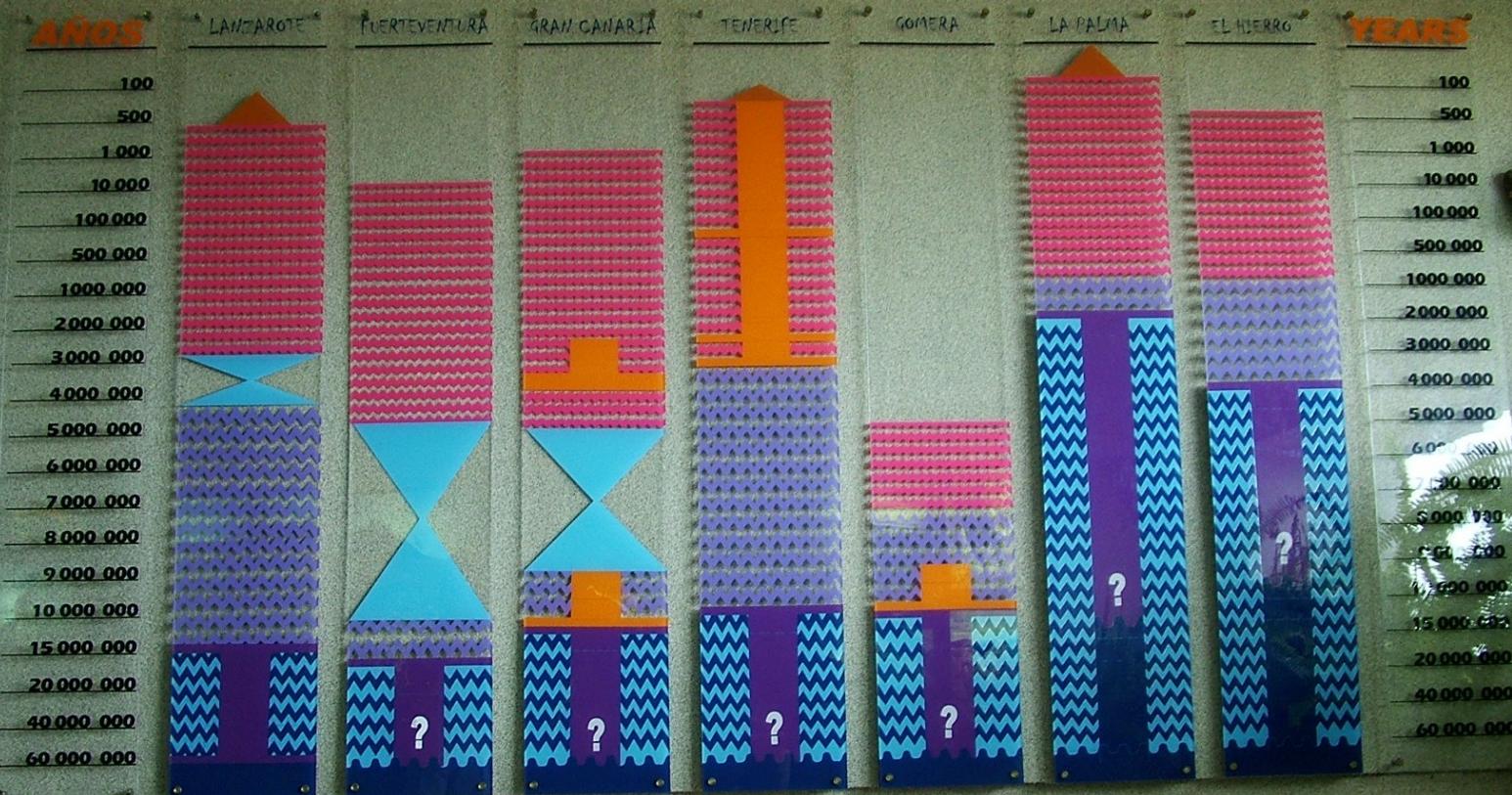




Základy speleologie, podzim 2023

EDAD Y EVOLUCIÓN DEL VOLCANISMO CANARIO

AGE AND EVOLUTION OF THE CANARY IS. VOLCANISM



Muzeum vulkanizmu





Základy speleologie, podzim 2023



Národní park
Timanfaya

The image shows a massive, dark-colored rock formation, likely basalt, with a rough, pockmarked surface. A dense cluster of stalactites hangs from the upper edge of the frame, their light-colored, icicle-like structures contrasting with the dark rock. The lighting is dramatic, highlighting the textures and casting deep shadows.

Stalaktity z bazaltové lávy

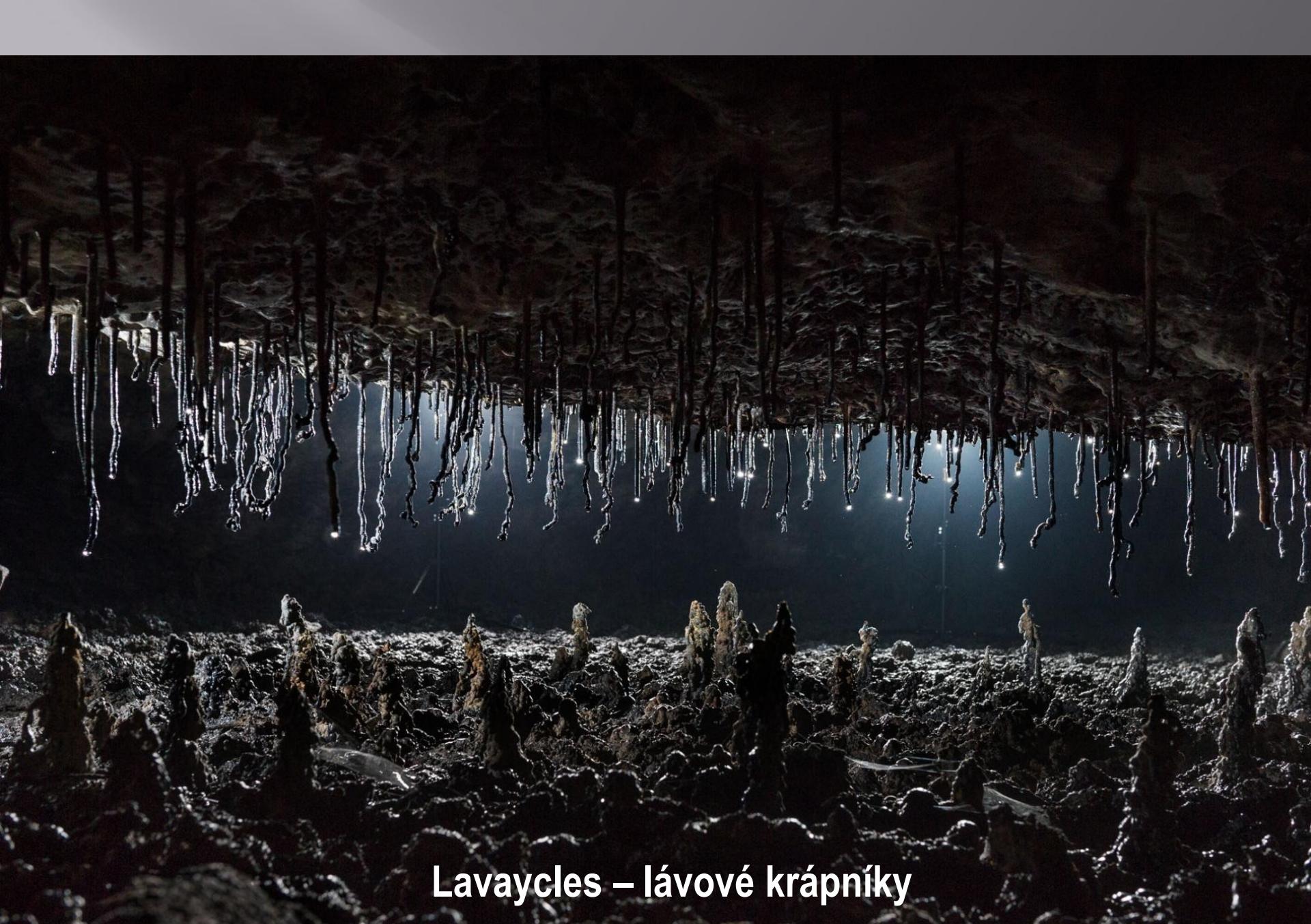


Základy speleologie, podzim 2023



Lávové tunely ve více úrovních

Základy speleologie, podzim 2023



Lavaycles – lávové krápníky

Základy speleologie, podzim 2023



Manjangguul Lava Tube, Jižní Korea, ostrov Jeju

Základy speleologie, podzim 2023

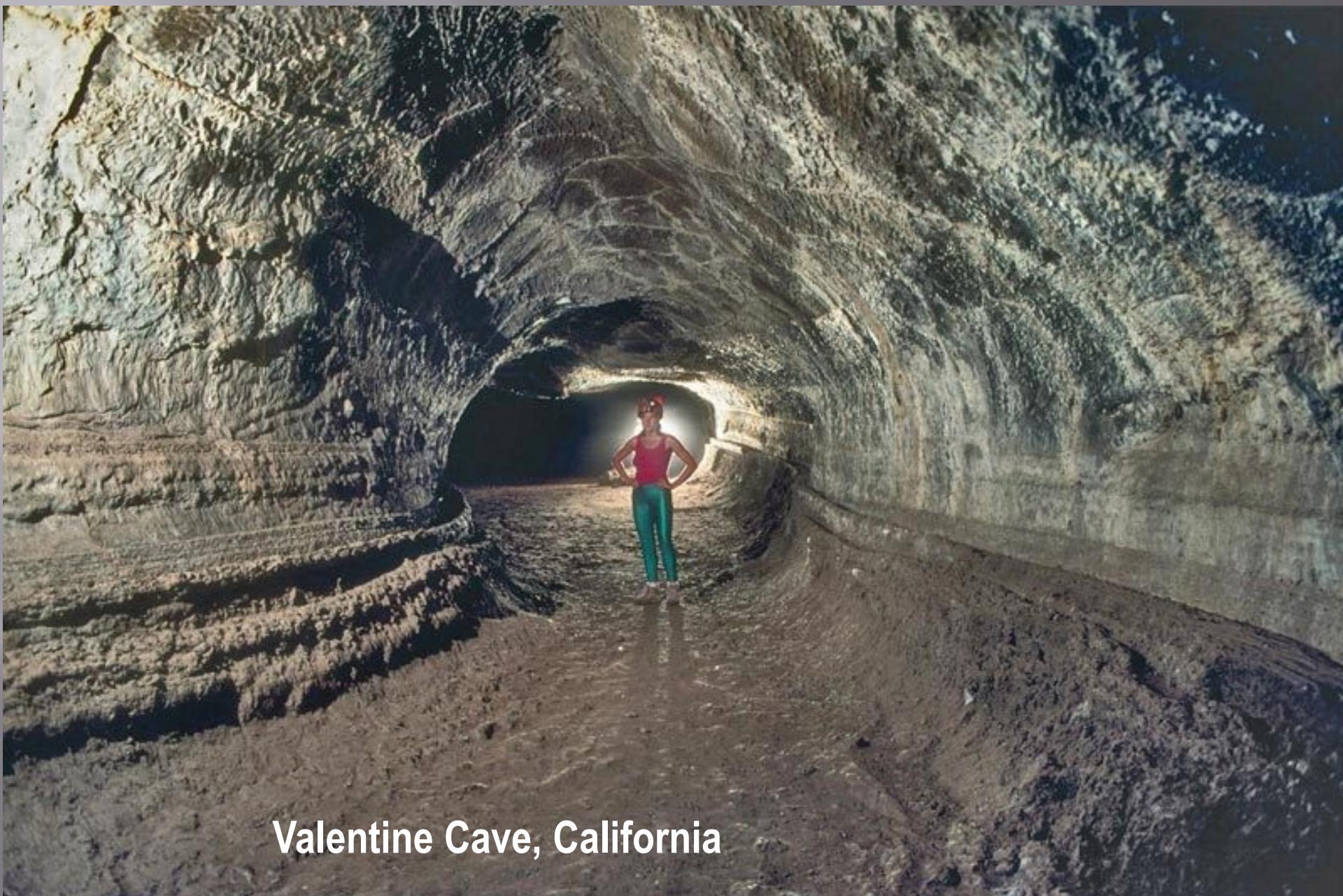


Undara, Queensland, Austrálie



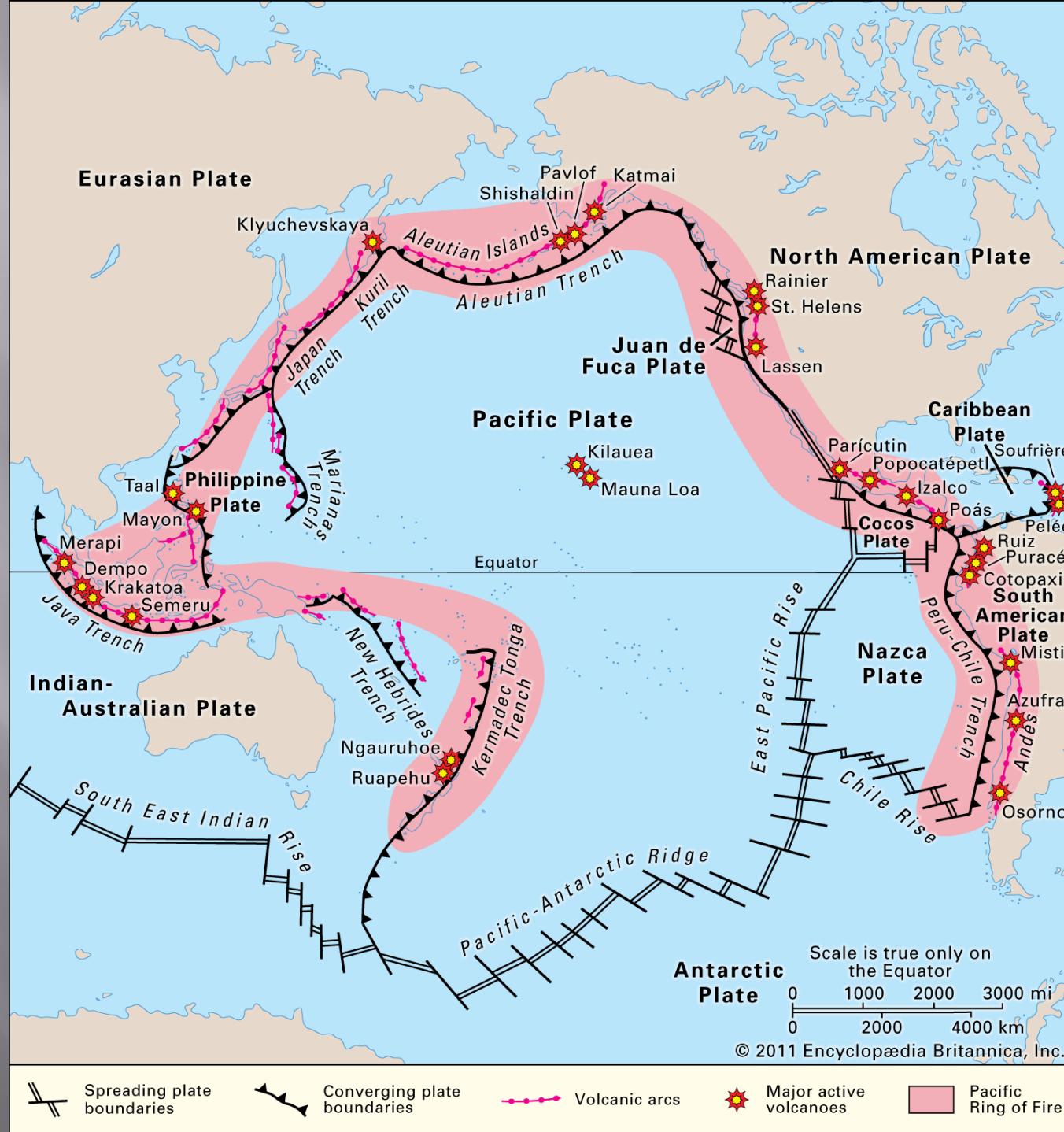
Kalifornie, USA

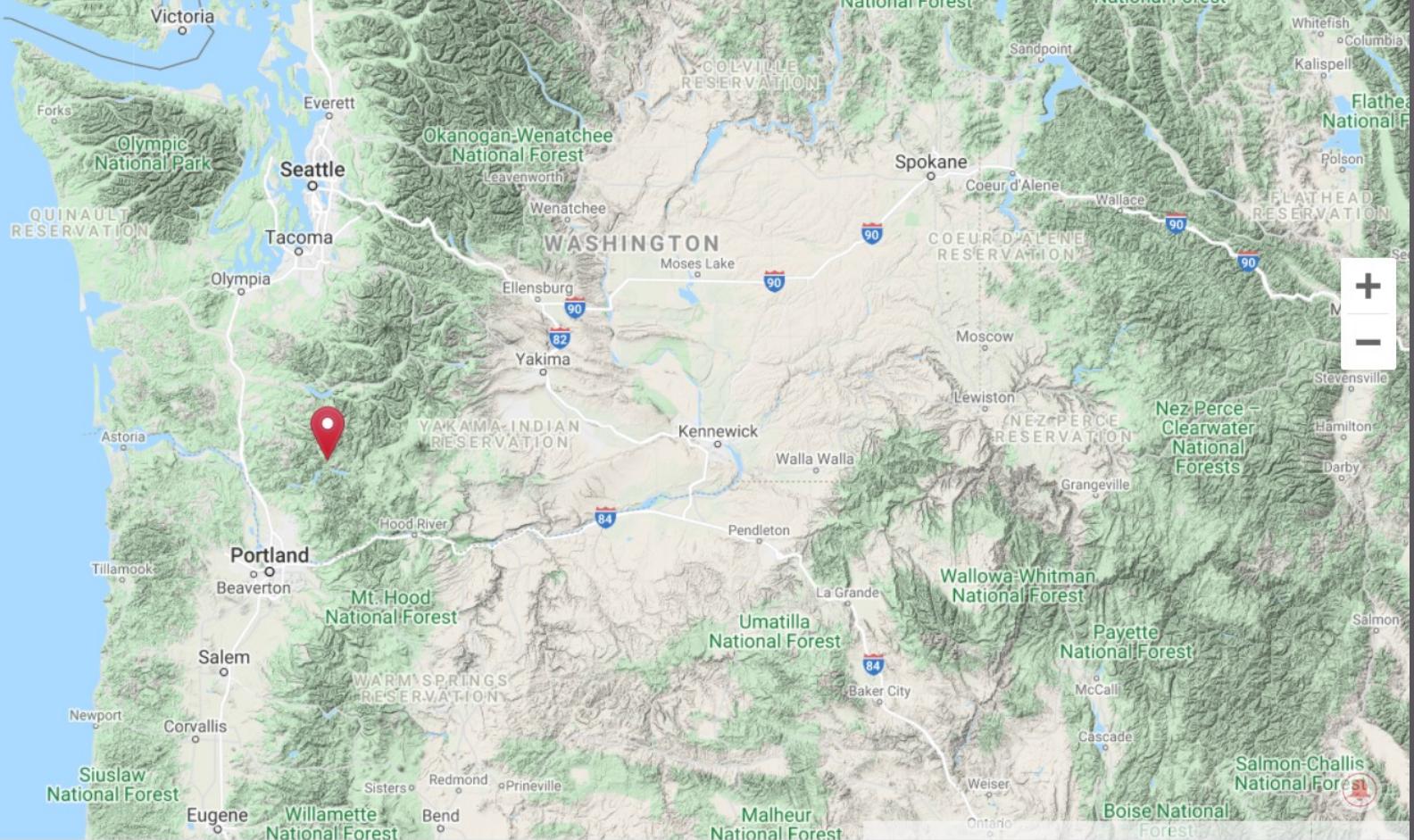
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Valentine Cave, California

Základy speleologie, podzim 2023





est-potvr....docx ^ - Sratoměstské n....mp4 ^ VID-20210411-W....mp4 ^ Zobrazit vše x

Sem zadejte hledaný výraz

10:29 23.09.2021 6



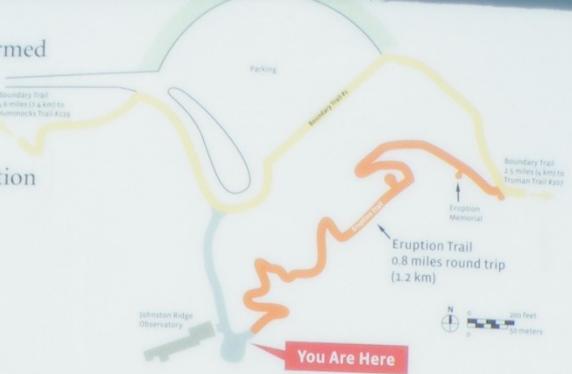
MT. St. Helens, dacitová láva

Eruption Trail

Discover the powerful events that transformed this landscape on May 18, 1980.

View the renewal of life around you.

Reflect on the sudden changes of the eruption and gradual changes as nature creates a mosaic of life. Nature's subtle rhythms prevail...until the volcano erupts again.



Reflect on those lost on May 18th at the Eruption Memorial.



May 17, 1980

One day before the eruption.



September 10, 1980

Mount St. Helens
National Volcanic Monument



Assist Nature's Recovery

Please stay on the trail. The returning plants and shattered stumps are fragile.

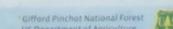
Pets are not allowed on this trail.

Leave pumice and ash where Mount St. Helens placed it.

Take nothing but pictures.

Help plants return. Don't step on or pick them.

Gifford Pinchot National Forest
US Department of Agriculture



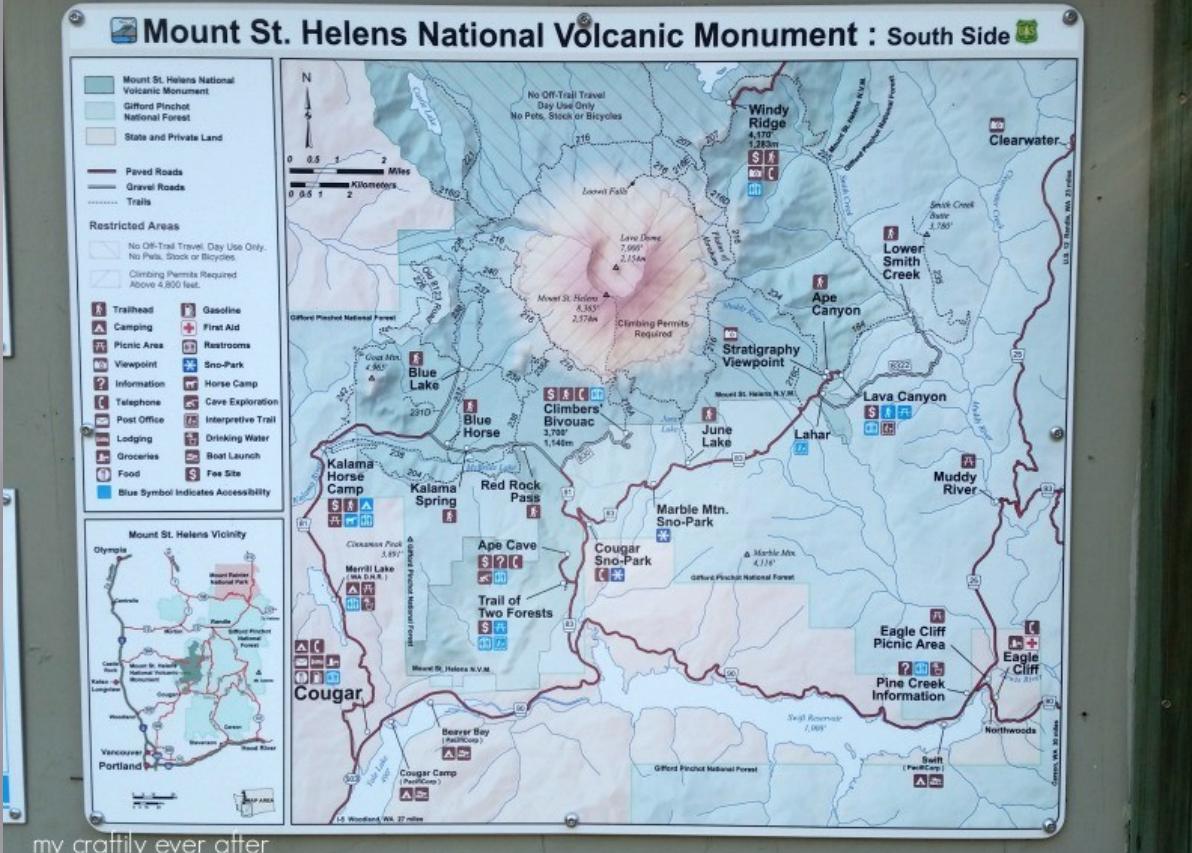
Pondering the Immensity of Change

A mountain collapses,

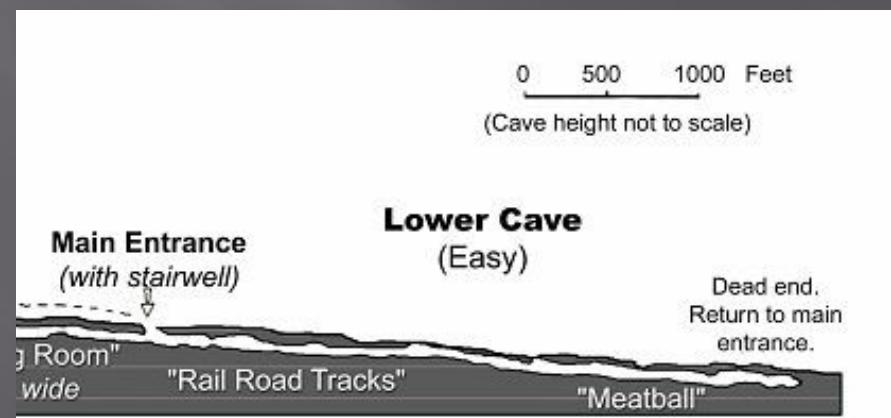
A super-heated stone wind roars across the land,

wave upon wave of pumice and ash erupt.

All this in a few hours time,
And on such a scale it challenges our comprehension.



my craftily ever after



The Third Longest Lava Tube In North America



Ape Cave was discovered in 1947 by a logger named Lawrence Johnson. However, the cave was not explored until the early 1950's when a scout troop, led by Harry Reese, lowered a team of scouts down a 17-foot overhang to the cave floor. Leaving footprints where no one ever had, these explorers were able to travel through a pristine lava tube full of fragile formations. Ape Cave was named by the Scout Troop in honor of their sponsor, the St. Helens Apes. This local group was made up primarily of foresters. The sponsor's name, St. Helens Apes, may have come from an old term used for foresters in the area, "brush apes," or from the legend of Bigfoot.

About 2,000 years ago, fluid basaltic lava poured down the southern flank of the volcano. As the lava flowed, chunks of the lava's surface cooled, crashed and fused together creating a hardened crust. In turn, the crust insulated the molten lava beneath, allowing it to remain fluid and travel down to the Lewis River Valley.

The hot flowing lava began melting into the pre-existing rock and soil. This thermal erosion deepened and widened the channel of the flow. The level of lava in the tube rose and fell as the eruption surged and slowed, contributing to the unique contours of the walls. During this eruptive period, hot fluid lava pulsed through the tube for months, possibly up to a year, until the eruption subsided. As a result of this rare eruption, a spectacular 13,042 foot (3976m) long lava tube, the third longest in North America, was created.



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Aglomerátové tufy ve stěnách



Útvar zvaný „meatball“



Kontury odrážející pulsování lávy

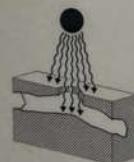


Drop by drop, water carries life into Ape Cave

In the Dark



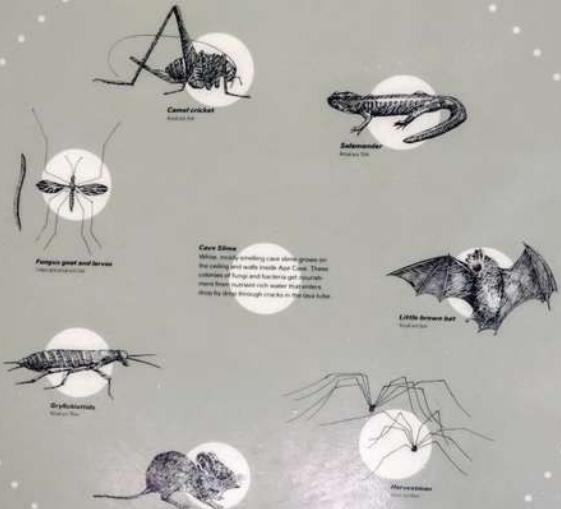
"While the world's above and below ground might seem separate, there are many connections."



"Water seeping into Ape Cave life is abundant, but deserves the right place to dominate."

Life cycles beneath our feet

Energy for life above ground comes mostly in the form of sunlight. But light cannot penetrate the ground, so energy for life in lava tubes comes from other sources. Water that seeps through the soil becomes nutrient-rich and carries the greatest natural source of energy for life into Ape Cave. Water, filling in where sunlight leaves off, brings energy into the cave to fuel life cycles beneath our feet.



Fragile existence

Salamander
Salamanders are attracted to cave environments by the abundance of insects that occurs in the cool, moist environment near the edge of darkness.

Little brown bat
For bats, the most important summer meal for little brown bats, but these are nocturnal insects. Some caves are protected so that bats are not disturbed by the lights and noise of people.

Harvestman
These arachnids sometimes crawl near entrances to the lava tube and use their long legs to help "sweep" in the dark.

Deer mice
Deer mice, found throughout the forest, are also common inside Ape Cave in searching for decomposing material, including litter left by campers.

Dryobiusmelsheimeri
Dryobiusmelsheimeri are ectoparasites, which like insects, have some interesting ones, including fungi, that larvae.

Pompeii goat and larva
The Pompeii goat and its larvae for fungus spores readily colonize the lava surfaces in the cave, often covering new areas.

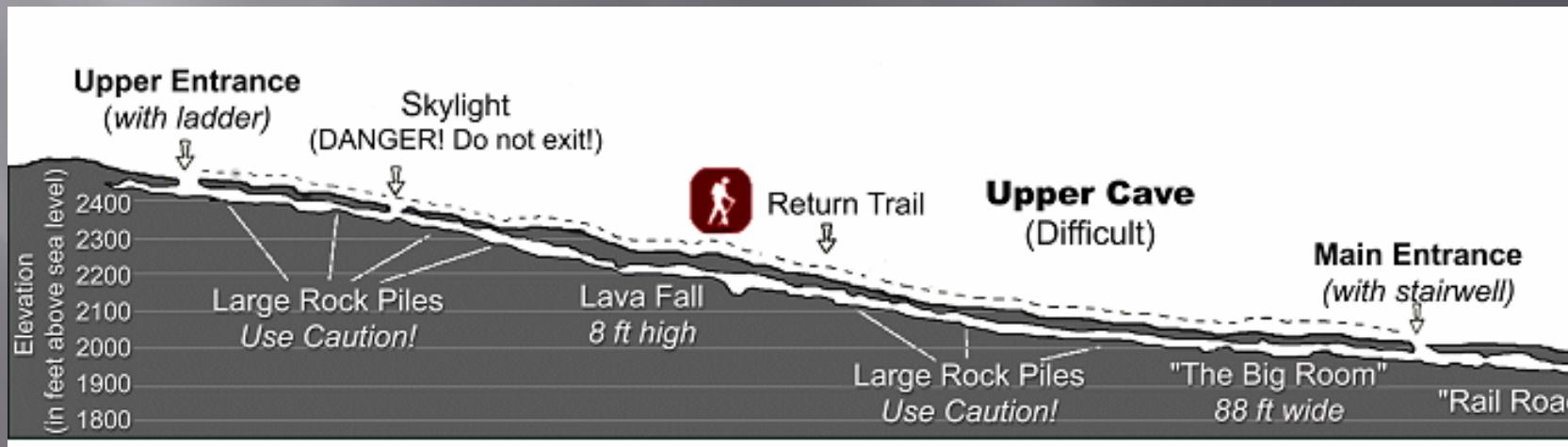
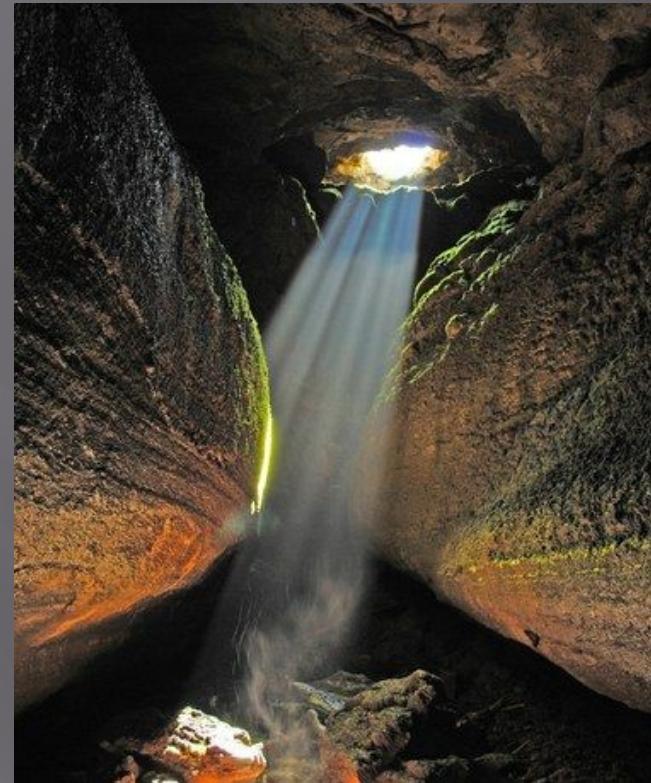
Camerocarid
Camerocarids help move Ape Cave soil around, decomposing organic material and unclogging

A delicate balance

Beyond the influence of light is an alien world. Few plants and animals have adapted to life without sunlight. Life cycles in lava tubes revolve slowly and are easily upset. Organisms that decompose organic material in the forest are scarce in Ape Cave. Wood and litter left in the lava tube can disrupt the delicate natural balance.



Základy speleologie, podzim 2023





Děkuji za pozornost