

GEOLOGY CLUB TRIP TO GUATEMALA!



First day in Guatemala City



Overlook at the Mayan Face at Lake Atitlan



Eclogites!!!!



Standing on pieces of the mantle, Purulha



Volcan Pacaya



Overlook of Semuc Champey



Roasting Marshmallow, Volcan Pacaya



Swimming at Semuc Champey



Mayan Ruins of Iximche



Weaving Collective, San Juan



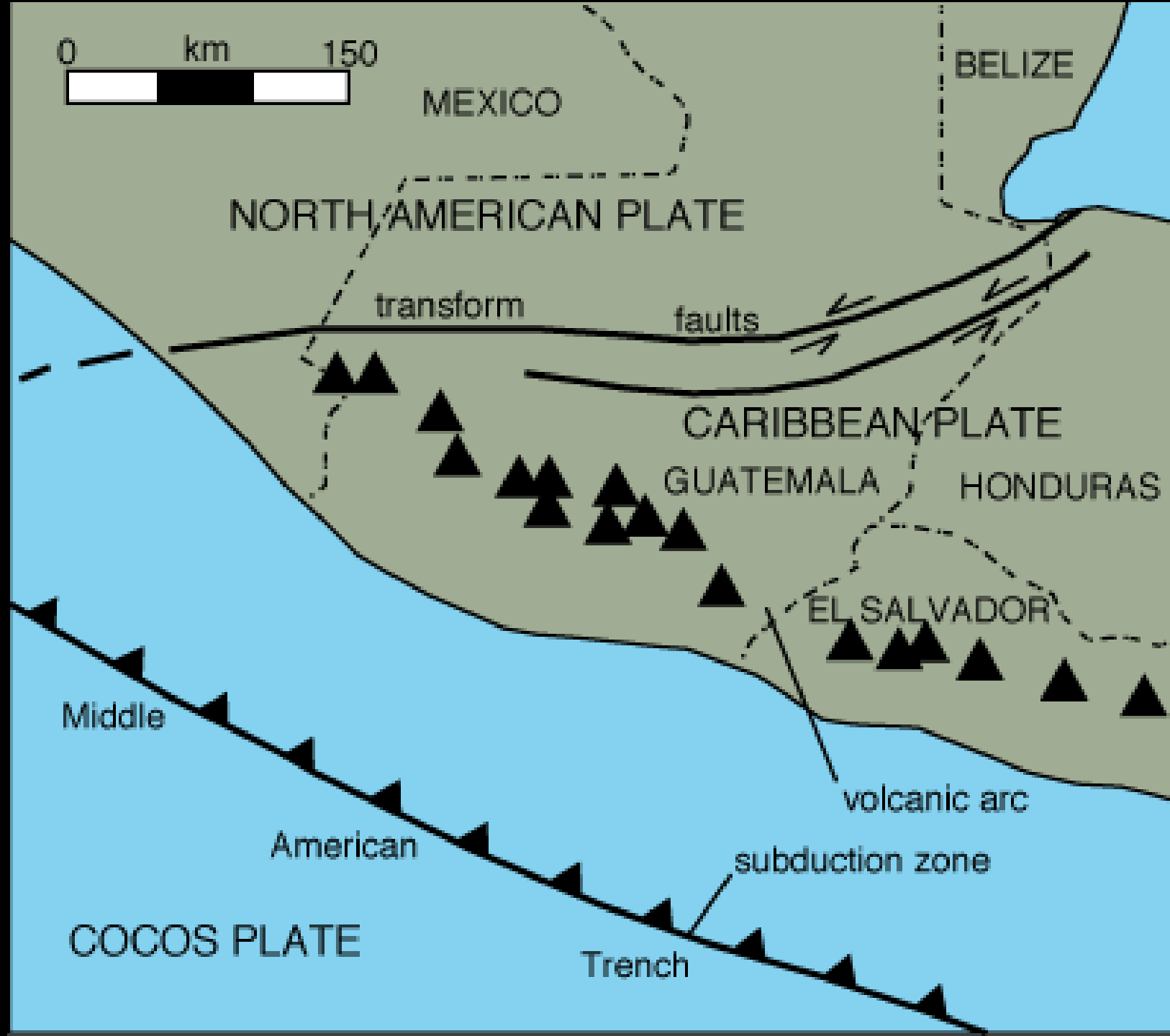
Pitt-Johnstown
Geology Club

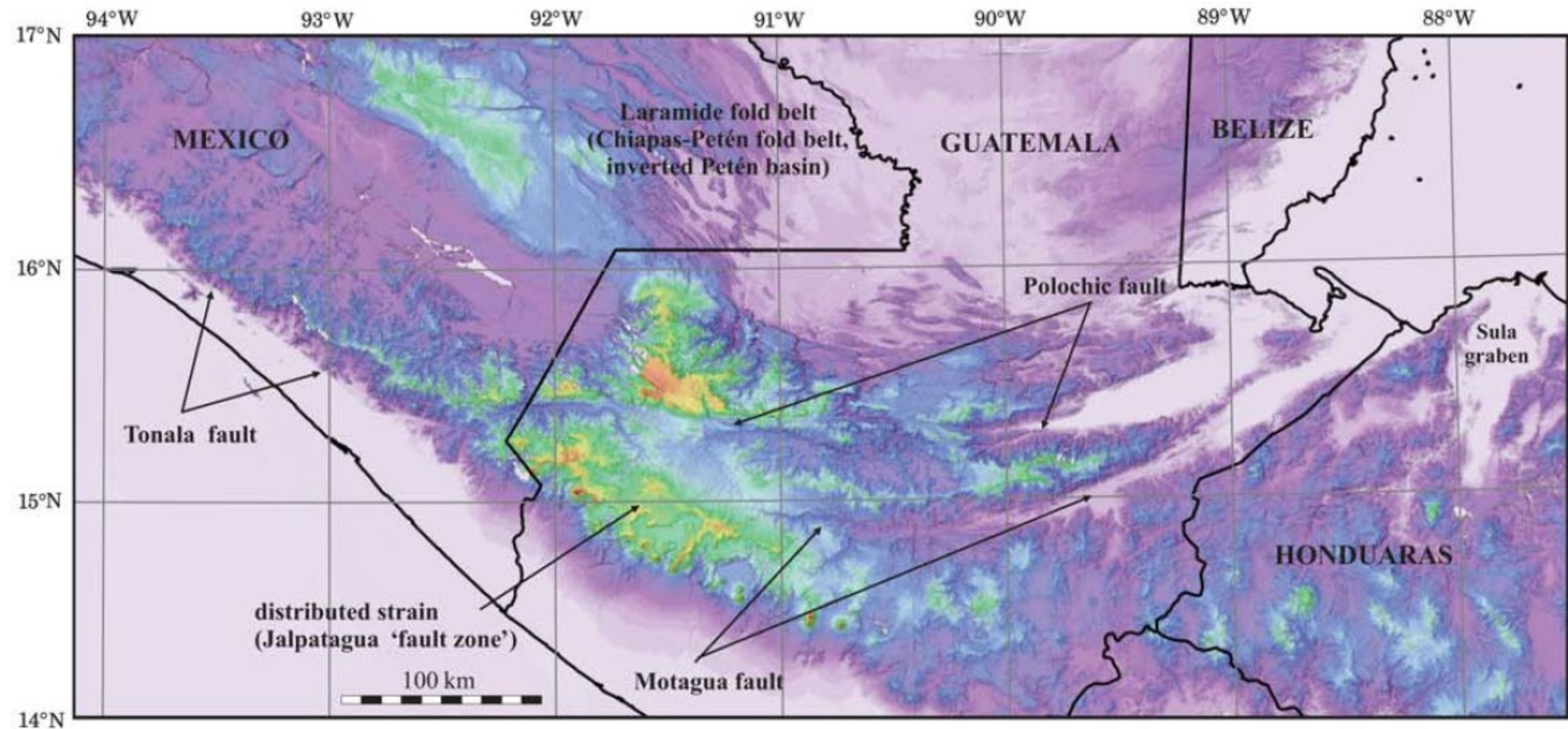
SPRING BREAK 2025 – GUATEMALA

Picture taken from The Mayan Face at Lake Atitlan

L-R: Ryan Kerrigan, Jessica Miller, Deb Donahue, Jordan Premozic, Dominic Freed, Isabelle Boyer, Jessica Hollan, Avery Freed, Tyler Smith, Trinity McElravy, Emily Mikesic, Terry McConnell, KC Kohler, Luka Hodgson, Matt Purvis (Guide)







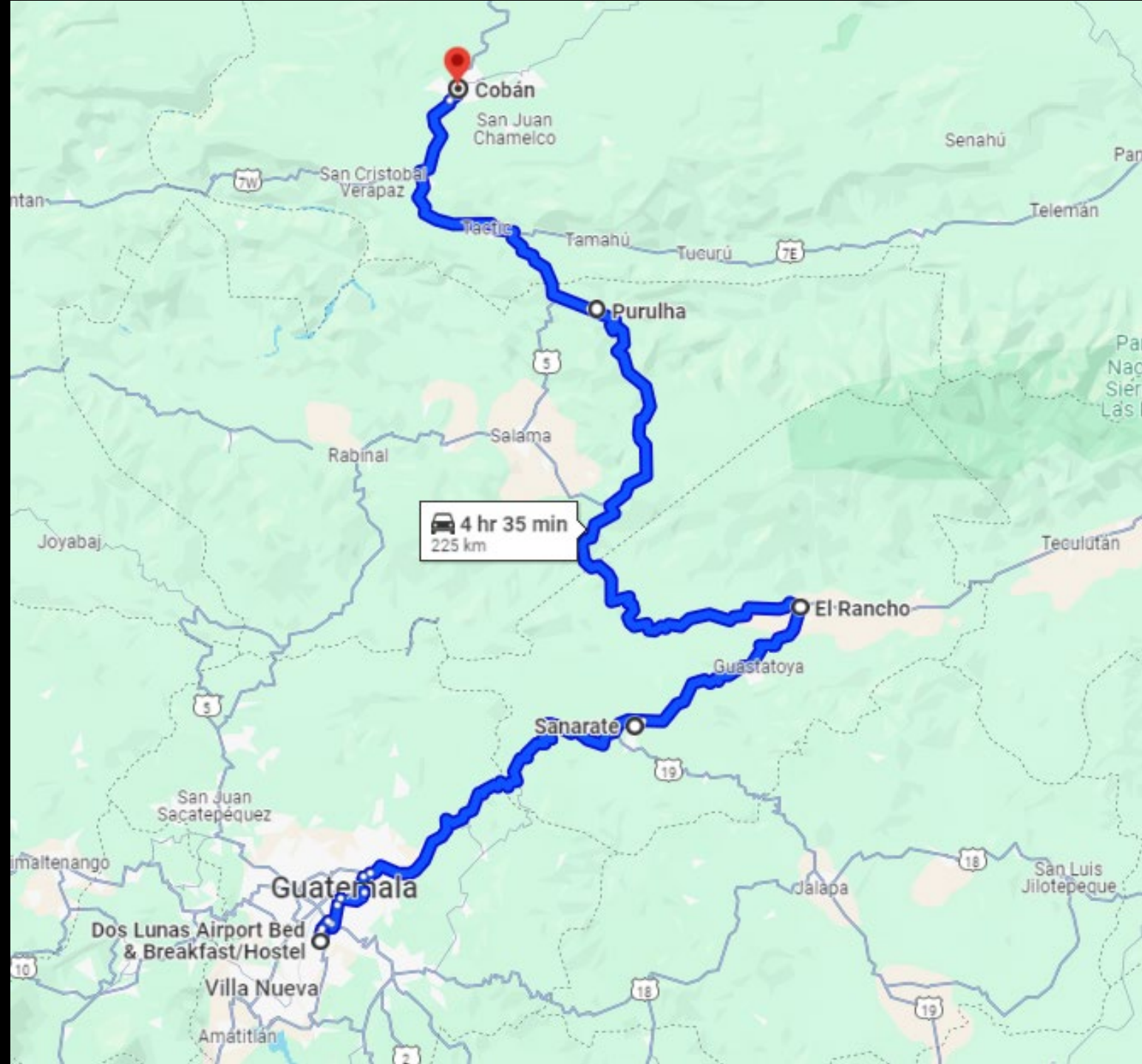
Guatemala: Day One – Getting there



Day 2: Saturday, March 1st, 2025 – East of Guatemala City

Highlights:

- Amphibolites and Phyllites of the El Tambor formation.
- Conglomerates and “red beds” of the Subinal formation
- Highly serpentized ultramafics with multiple phases of deformation. Ophiolitic ultramafics



























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Day 3: Sunday, March 2nd, 2025

CHITOCÁN – Semuc Champey



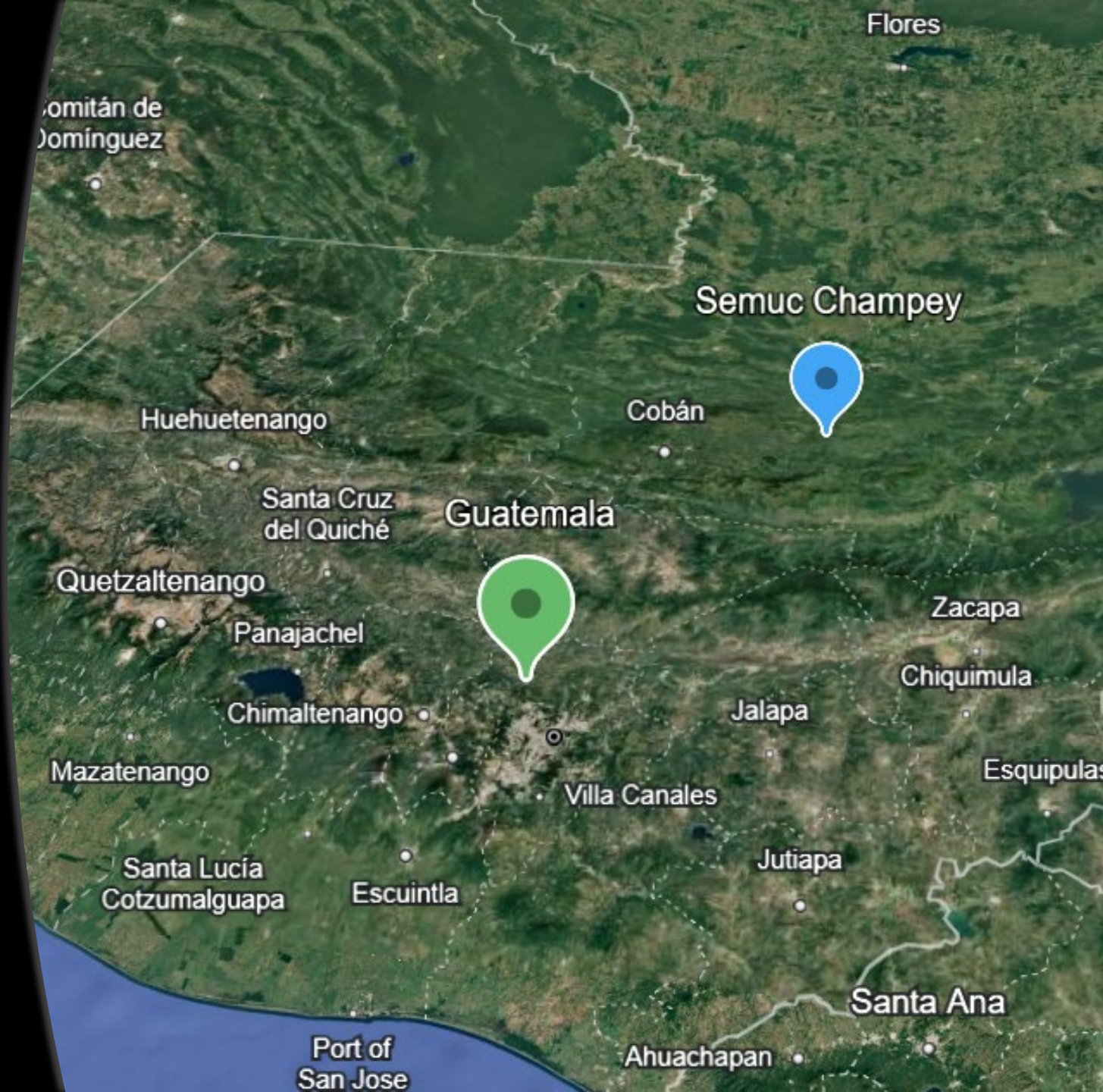


Semuc Champey

Guatemala Day 3

Background

- Semuc Champey is named from the Q'eqchi' language, meaning, *"where the river hides under the earth."*
- The Cahabón River flows under a limestone bridge
- Located in the jungles of Guatemala





The "El Mirador" viewpoint

- 45-minute jungle hike up a whole lot of stairs
- Super cool view of the limestone pools below
- Worth the hike 😊





The Pools

- The karst topography causes the river water to be mineral rich
- This water is exposed to the atmosphere after flowing underground, it loses carbon dioxide, and limestone is deposited.
- The flowing water causes the limestone to be deposited at the rims



Natural Wonder

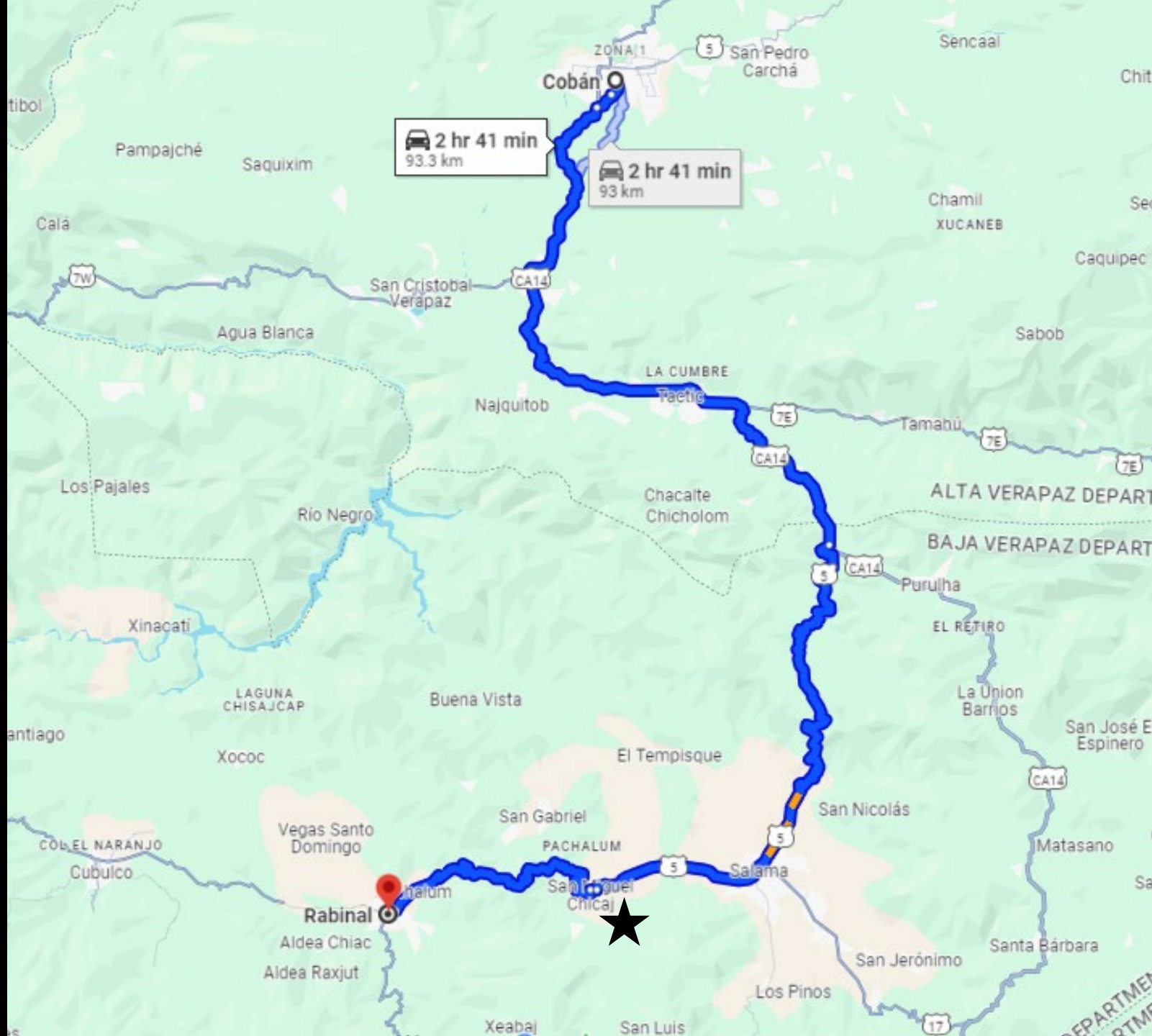
- One of the most unique landmarks I'll ever visit
- The photos don't do it justice!!



Day 4: Monday, March 3rd, 2025 – Rabinal

Rabinal Granitic Suite

Greenschist meta-sediments, Rabinal





Todo bajo
un techo,
a precios que
te encantan.

FRONTIER
SOLUCIONES Y TRANSPORTES

PEPSI
SE DE I

DO MI SOL
HOTEL PLAZA

RACHEL

RACHEL'S

LA VANDERIA
MAGDALENA

CHINESE

El sabor del wok!
CANTON

FESTIVAL
CAMARONES
Q45

FO

TIGER

TU NEGOCIO PROPIO
KING
DELUXE
EN AGENCIAS WIL

BOMBAZO
CREDITO
INMEDIATO 4211-4597









Lunch in Salama







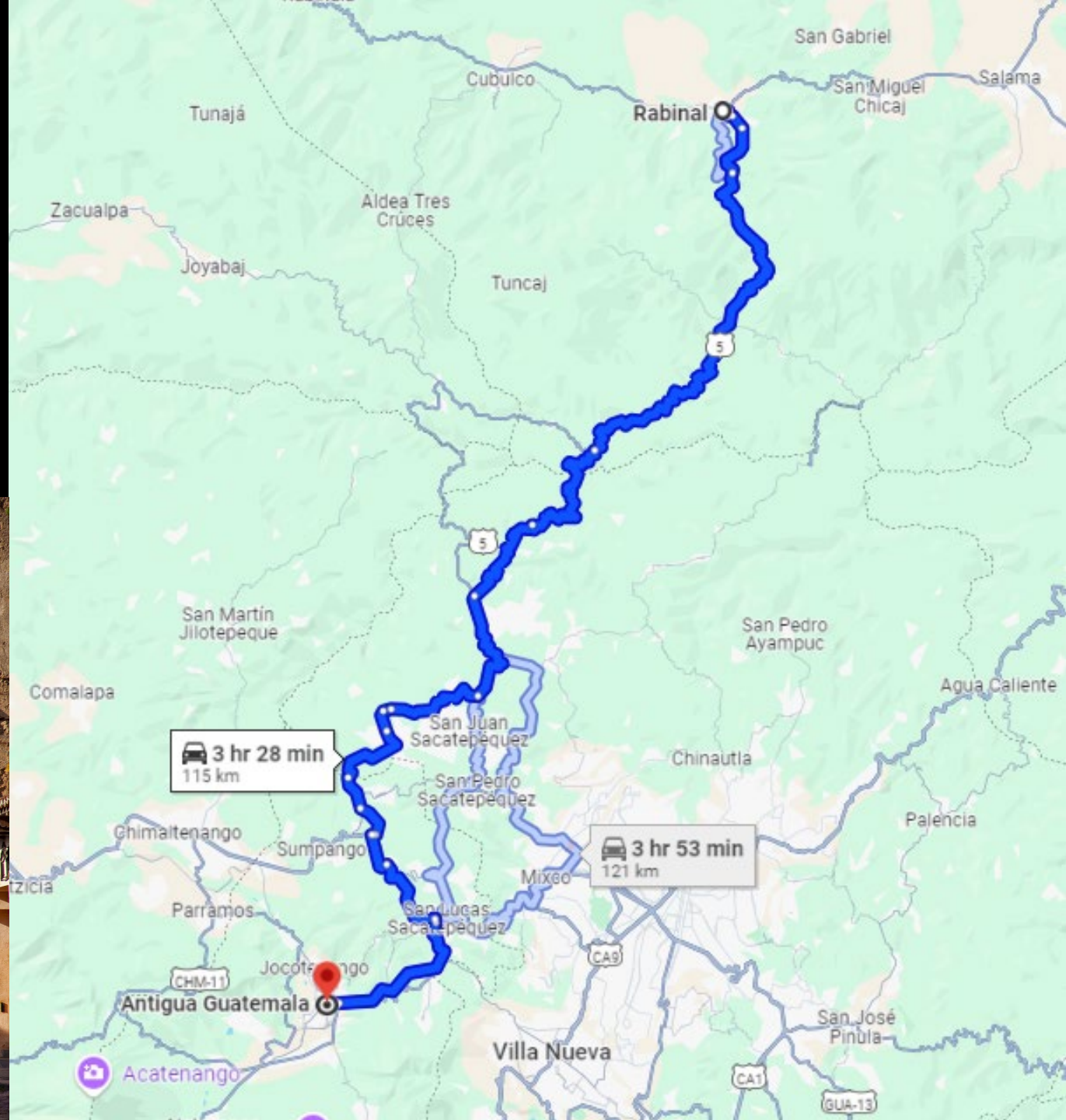






Day 5: Tuesday, March 4th, 2025— Antigua

Gneisses, amphibolites, eclogites,
and blueschist
Multiple phases of folding.
Antigua



Leaving Rabinal





To El Chol







Granados







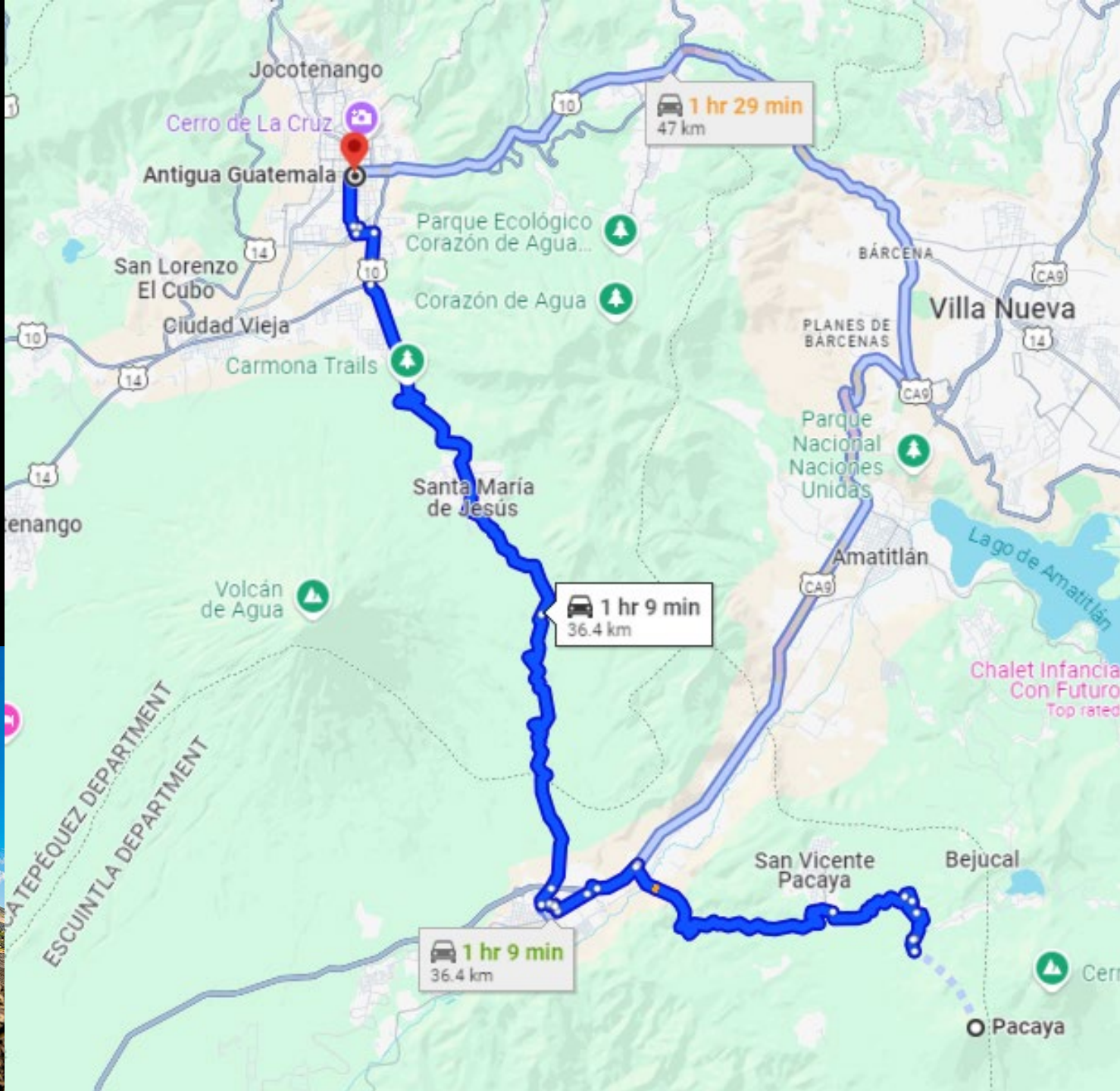
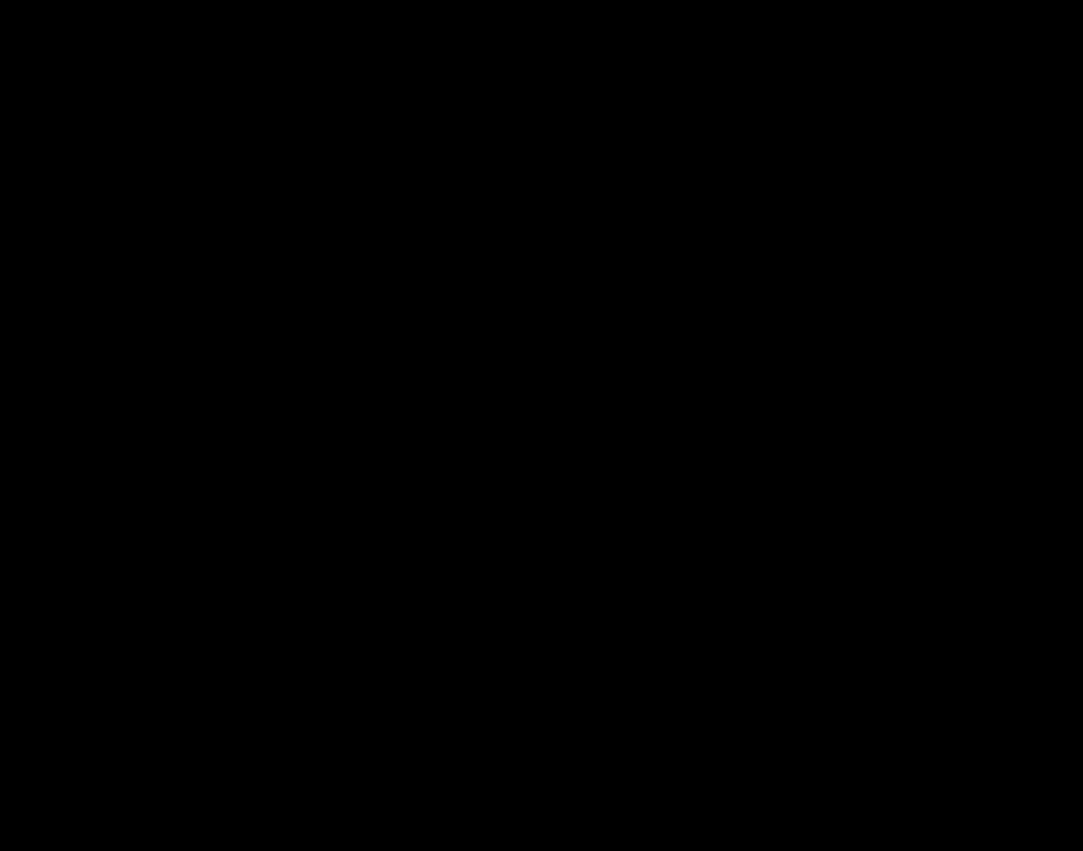




San Juan Sacatepequez







BACKGROUND

- Volcanic complex
- Cocos plate subducting under the Caribbean plate
- Complex includes:
 - Four eruptive centers
 - Dominantly andesitic
 - Olivine-bearing basalts
 - Dacites
- 100 – 300 years of activity
- 300 – 500 years of inactivity
- Active in the last decade





Google Earth

Image Landsat / Copernicus
Data LDEO-Columbia, NSF, NOAA
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

















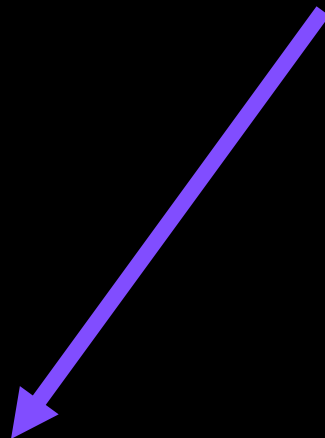
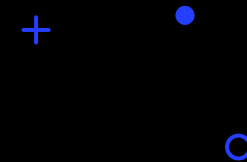


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- Lava levee
 - Solidified lava along the edges of flows



- Lava levee
 - Solidified lava along the edges of flows
 - 2021





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- Drip stones



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• Drip stones

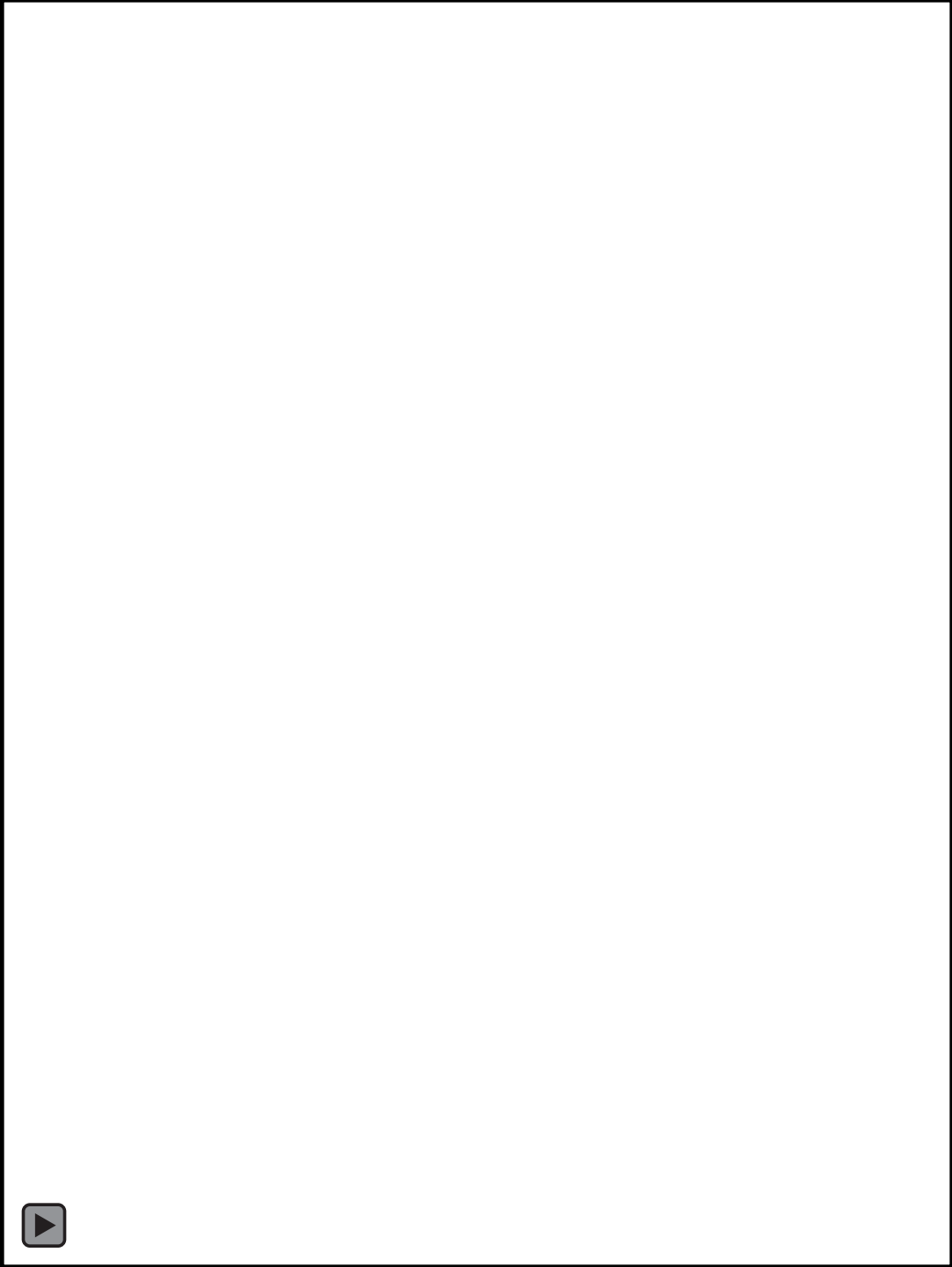
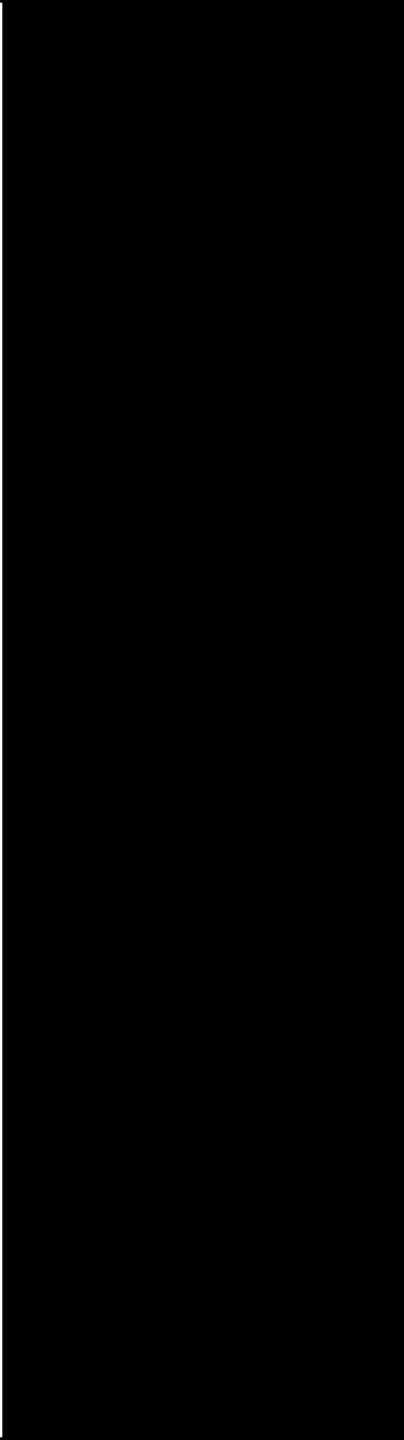
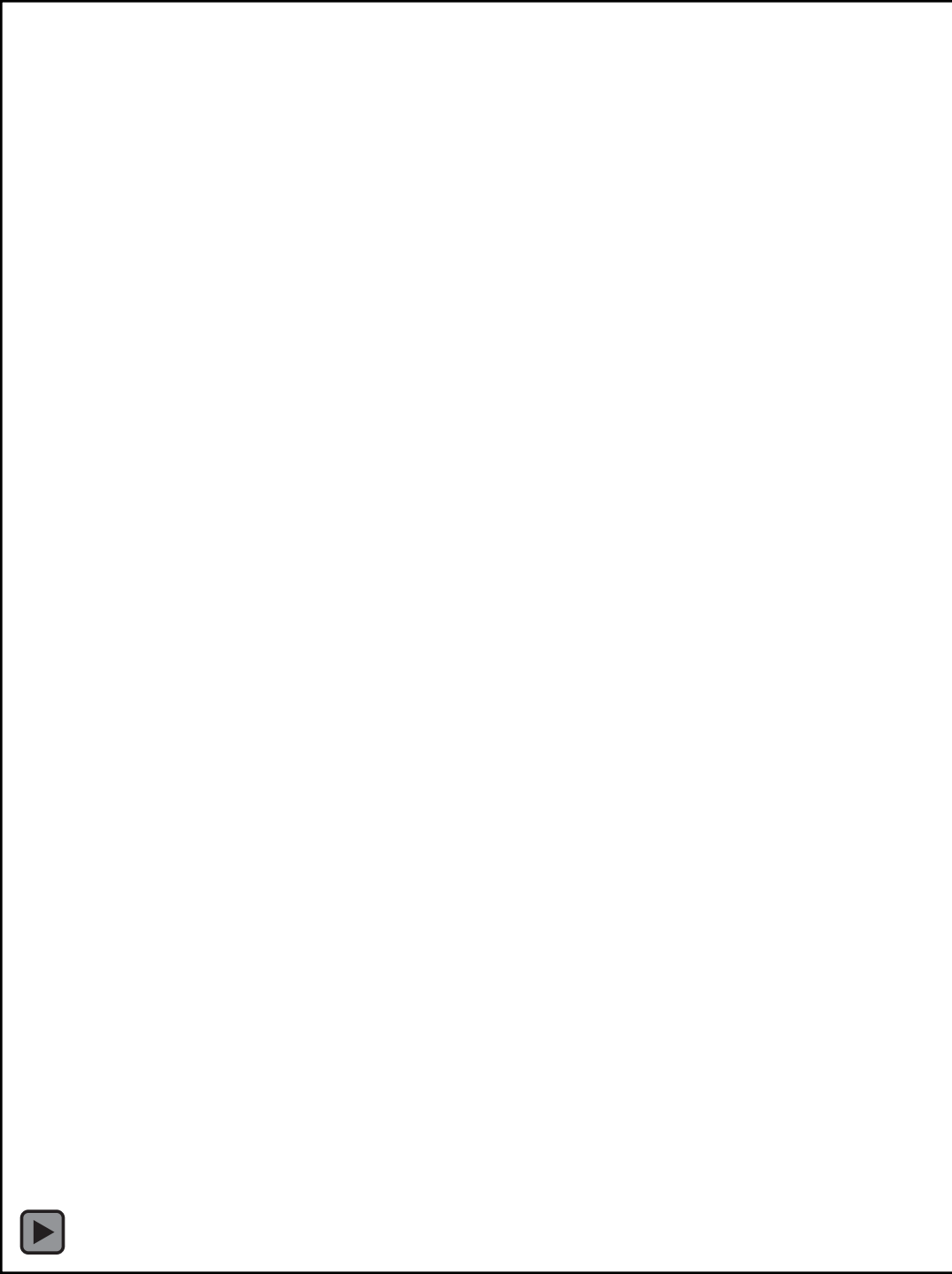














Se dice la nobleza maya se dio a conocer a la nobleza en un pedazo de jade en la boca, un representante su pasaporte hacia el cielo.
JADE, PASSPORT TO HEAVEN
According to Maya mythology, the noble class had to be buried with a piece of jade in their mouth, which represented their passport to heaven.

La Chocolatiere
Period: 1500-1600 approx. J.C.
Luz, Peten, Guatemala

Maya Culture
Chocolatiere
Maya Culture



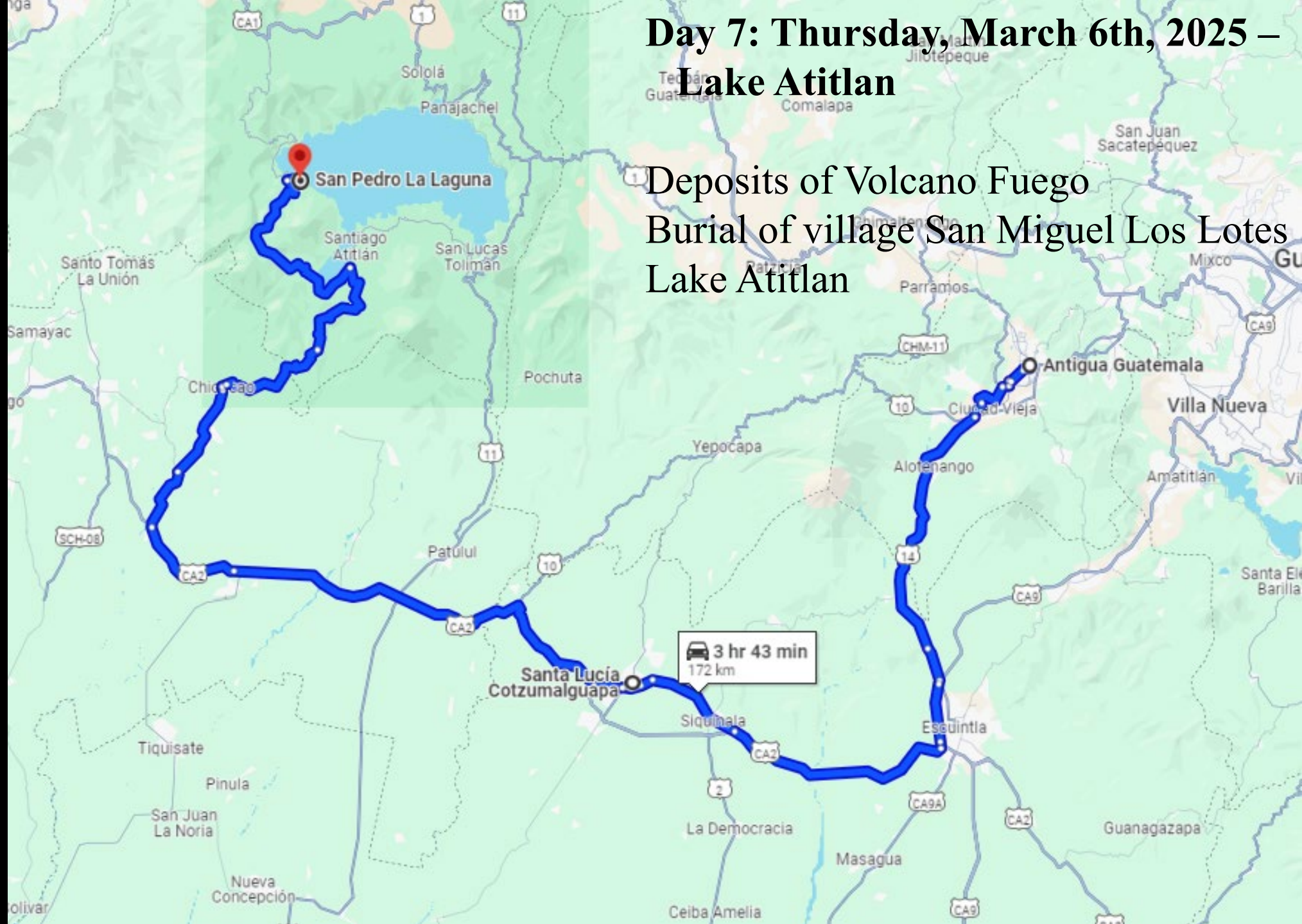






Day 7: Thursday, March 6th, 2025 – Lake Atitlan

Deposits of Volcano Fuego
Burial of village San Miguel Los Lotes
Lake Atitlan





Debris avalanche



San Miguel Los Lotes

- 2018 eruption, Volcán de Fuego
- Village buried under lahar flows
- Now quarries for aggregate









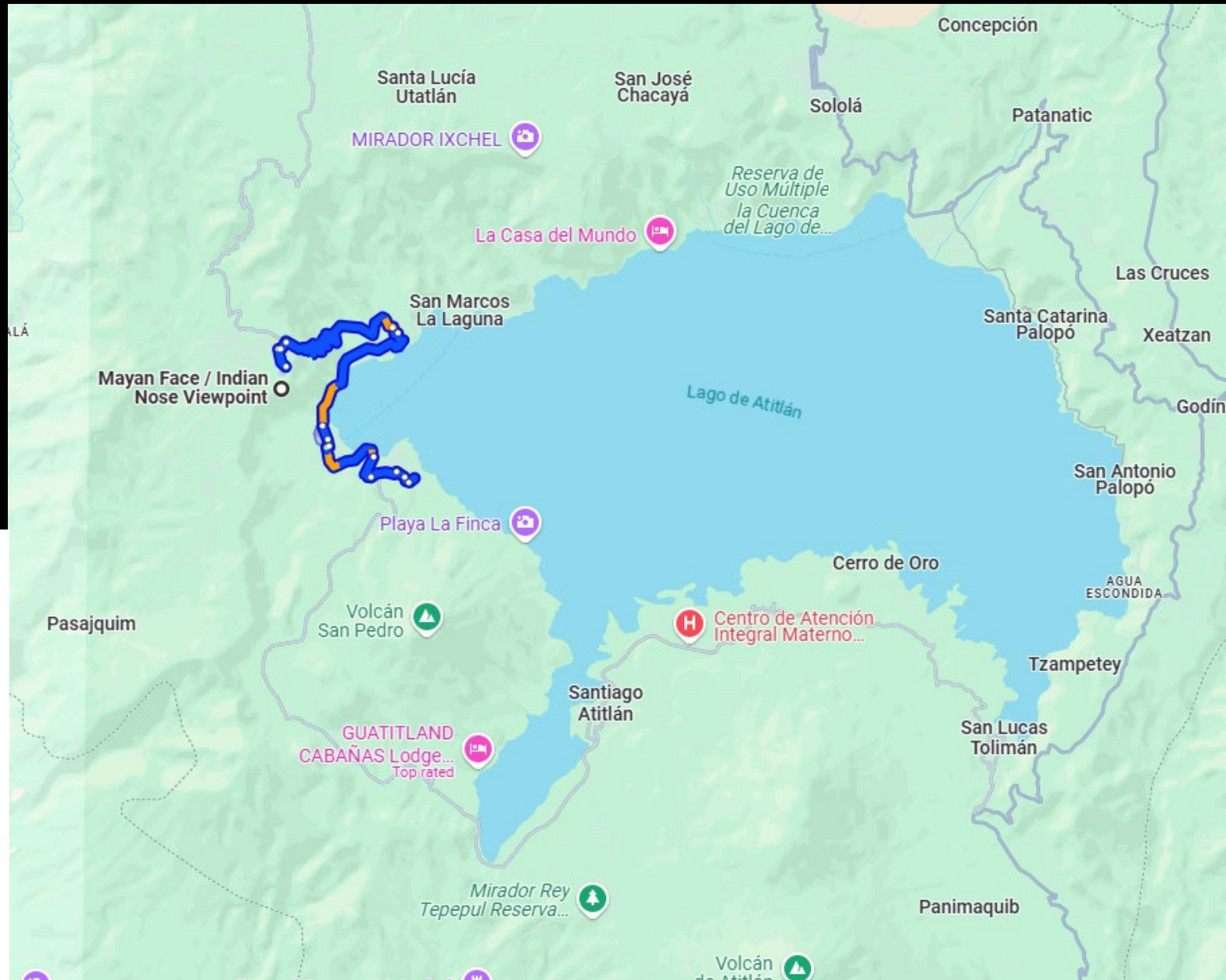


























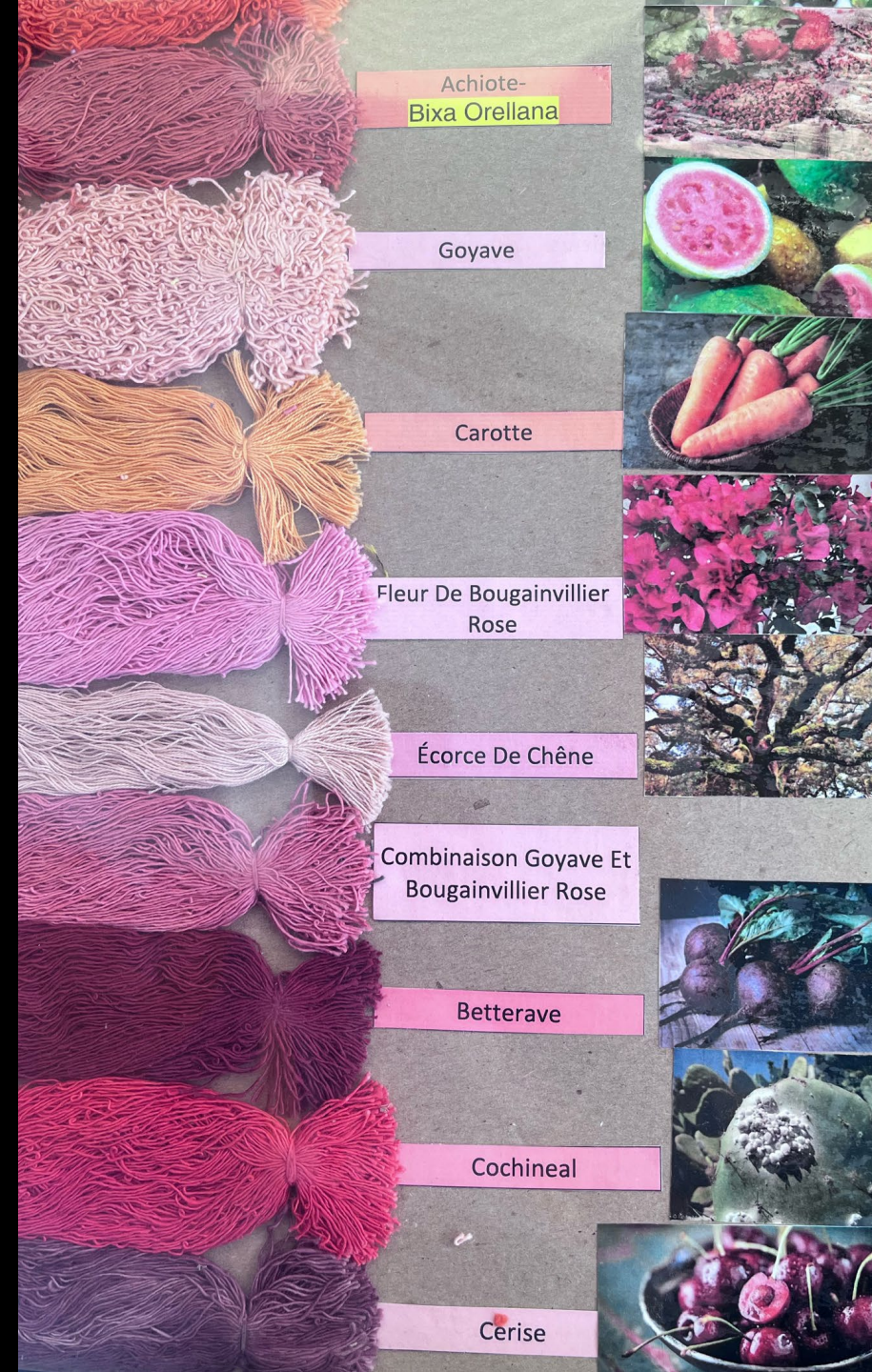










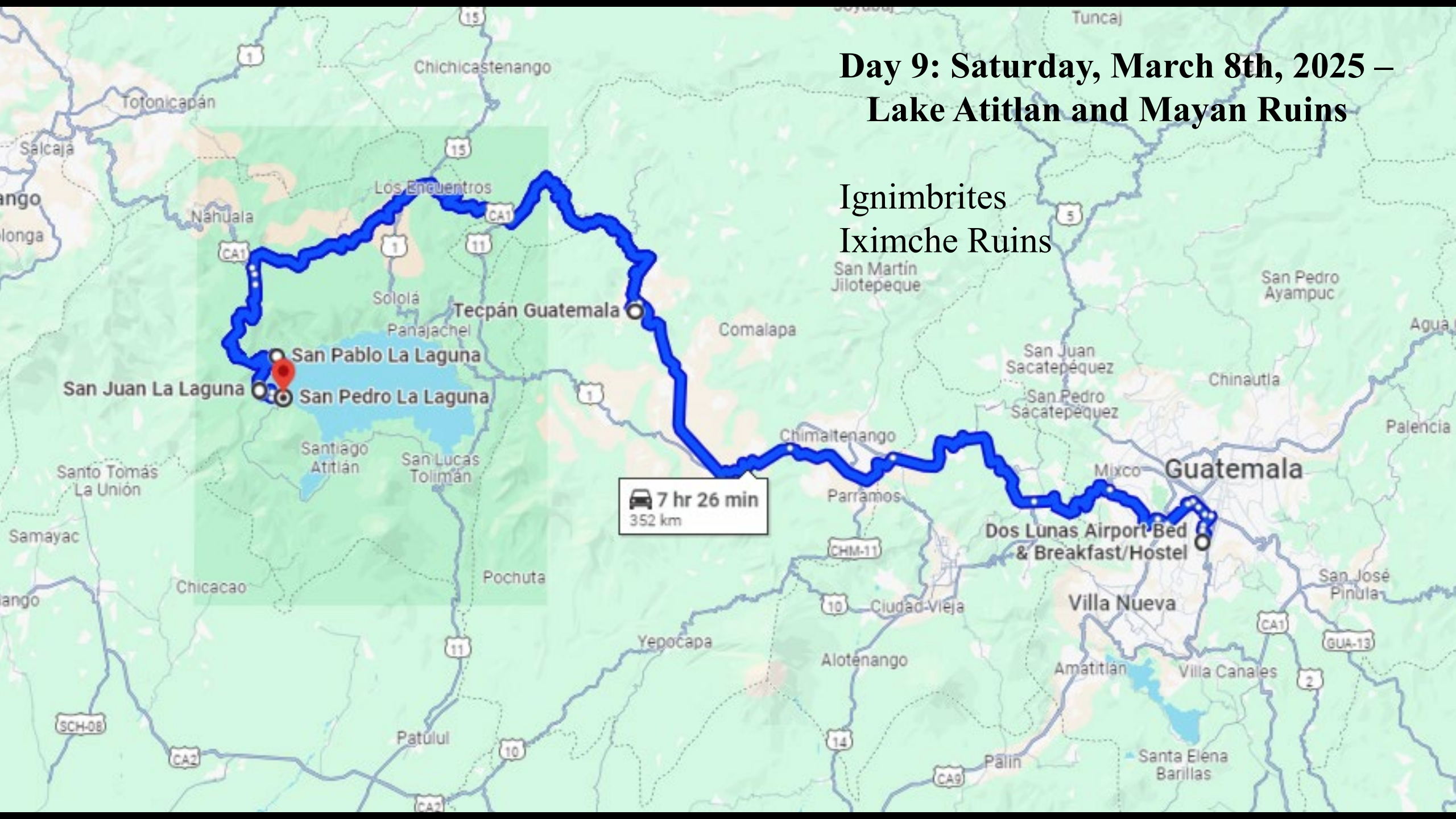






Day 9: Saturday, March 8th, 2025 – Lake Atitlan and Mayan Ruins

Ignimbrites
Iximche Ruins























Thank you being a great group!!!!

