SSAGI 2026
XIV SOUTH AMERICAN SYMPOSIUM ON ISOTOPE GEOLOGY
Montevideo (Uruguay), 13-16 April

Field Excursion

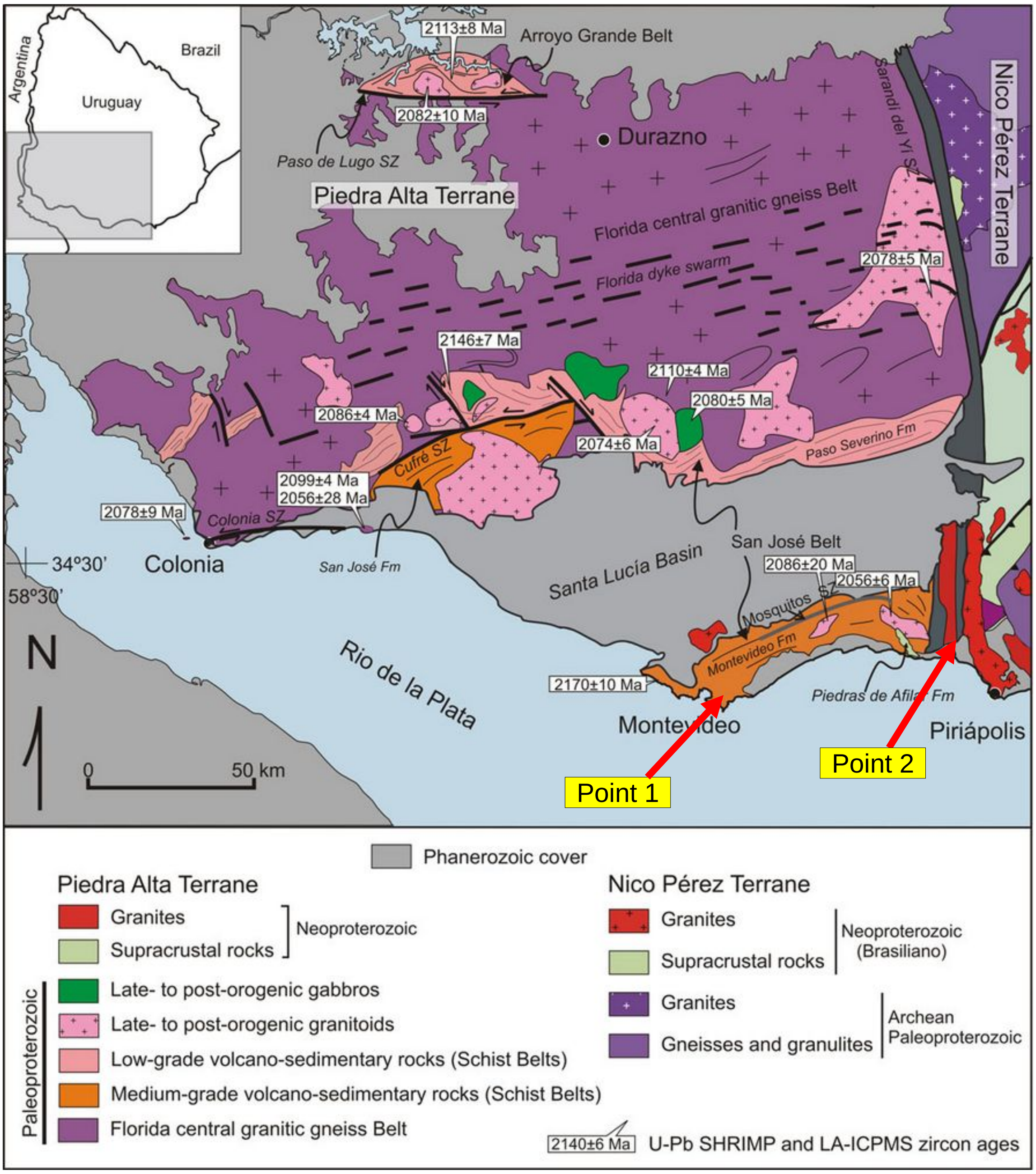
Main localities in the Precambrian of Uruguay: from the Paleoproterozoic Piedra Alta Terrane to the easternmost Dom Feliciano Belt

Trip leaders: Pedro Oyhantçabal – Bruno Osta

Departure from Montevideo: 07:30

1st Outcrop: Amphibolite and orthogneiss of the juvenile Paleoproterozoic Piedra Alta Terrane (Río de la Plata Craton). Mesoproterozoic lampropyhric dike.

8:20 departure to Punta Solís (~80 km)



From: *The Río de la Plata Craton of Argentina and Uruguay* Pedro Oyhantçabal, Carlos A. Cingolani, Klaus Wemmer (2018)

9:50
2nd Outcrop: Punta Solís. Southernmost outcrop of the Sarandí del Yí Shear Zone (main isotopic boundary in the Uruguayan Precambrian Basement). Solís de Mataojo synkinematic granite. Kinematics, age constraints.
10:25 departure to Punta Rasa

10:55
3rd Outcrop: Punta Rasa. Basement inlier in the Dom Feliciano Belt. Orthogneiss of the Campanero Complex (1.8 Ga protolith age; metamorphism ca. 580 Ma).
Mafic and felsic Ediacaran dykes. Pseudotachylytes.
11:30 departure to Punta Ballena

12:05
4th Outcrop: Punta Ballena. The Sierra Ballena Shear Zone. Different mylonite protoliths, age constraints. Second isotopic boundary in the Uruguayan Precambrian Basement.
12:40 departure to Punta del Chileno

12:50
5th Outcrop: Punta del Chileno. The Maldonado synkinematic granite (Ediacaran). Post-collisional magmatism, transitional signature: calc-alkaline to alkaline.

Lunch break

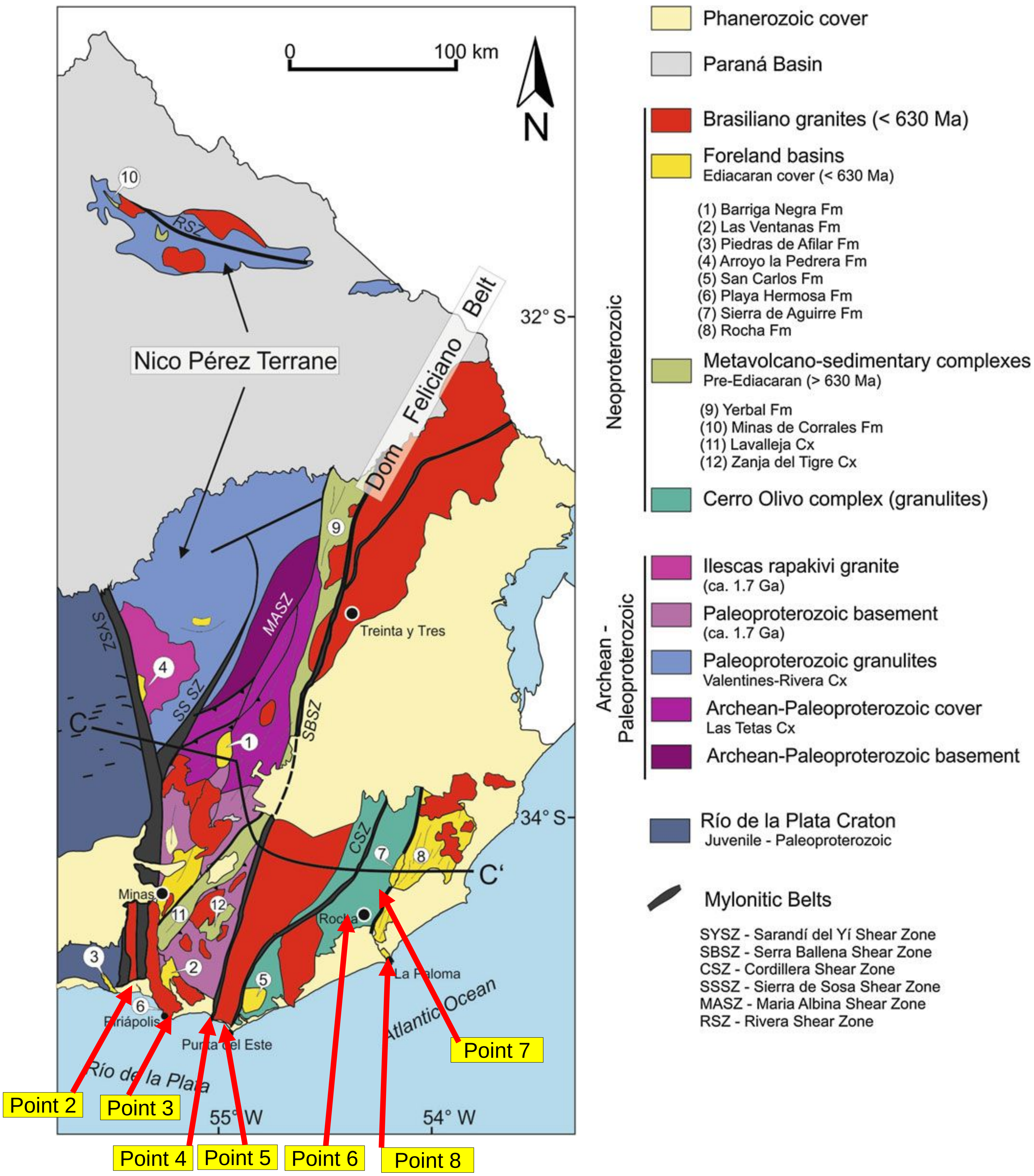
13:30 departure to Rocha City (travel time: 1hr 30 min)

15:00
6th Outcrop: Cerro Olivo Complex, paramigmatites. Zircon age spectrum in the sedimentary protolith. Cryogenian age of metamorphism and leucosomes.
15:35 Departure to Puntas de Don Carlos

16:35
7th Outcrop: Puntas de Don Carlos. Felsic and mafic orthogneises (Tonian protolith age, Cryogenian metamorphism)
17:10 Departure to La Paloma

17:45
8th Outcrop: La Paloma. Rocha Formation. Ediacaran metasediments. Provenance, regional implications.

18:30 Return to Montevideo
22:00 Arrival at Montevideo



From: *The Dom Feliciano Belt in Southern Brazil and Uruguay* Mathias Hueck, Pedro Oyhantçabal, Ruy Paulo Philipp, Miguel Angelo Stipp Basei, and Siegfried Siegesmund (2018)