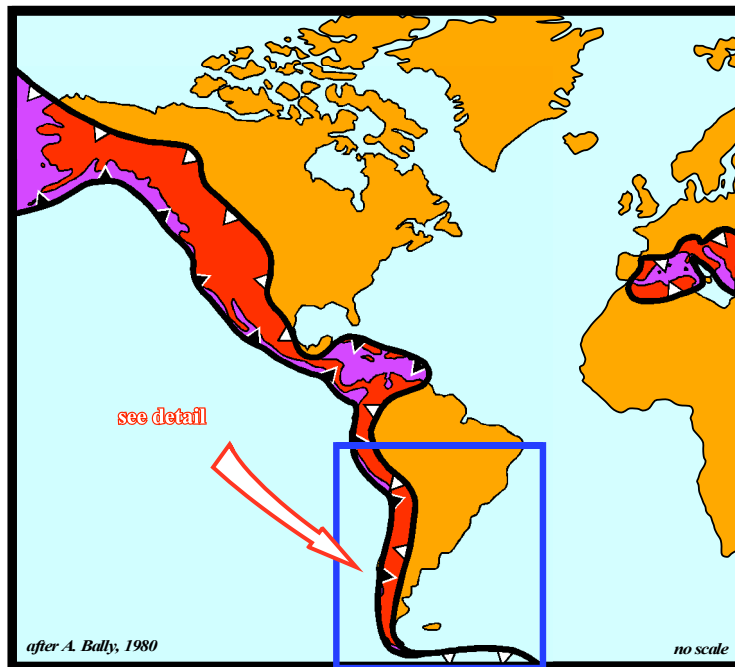


Argentina Sedimentary Basins

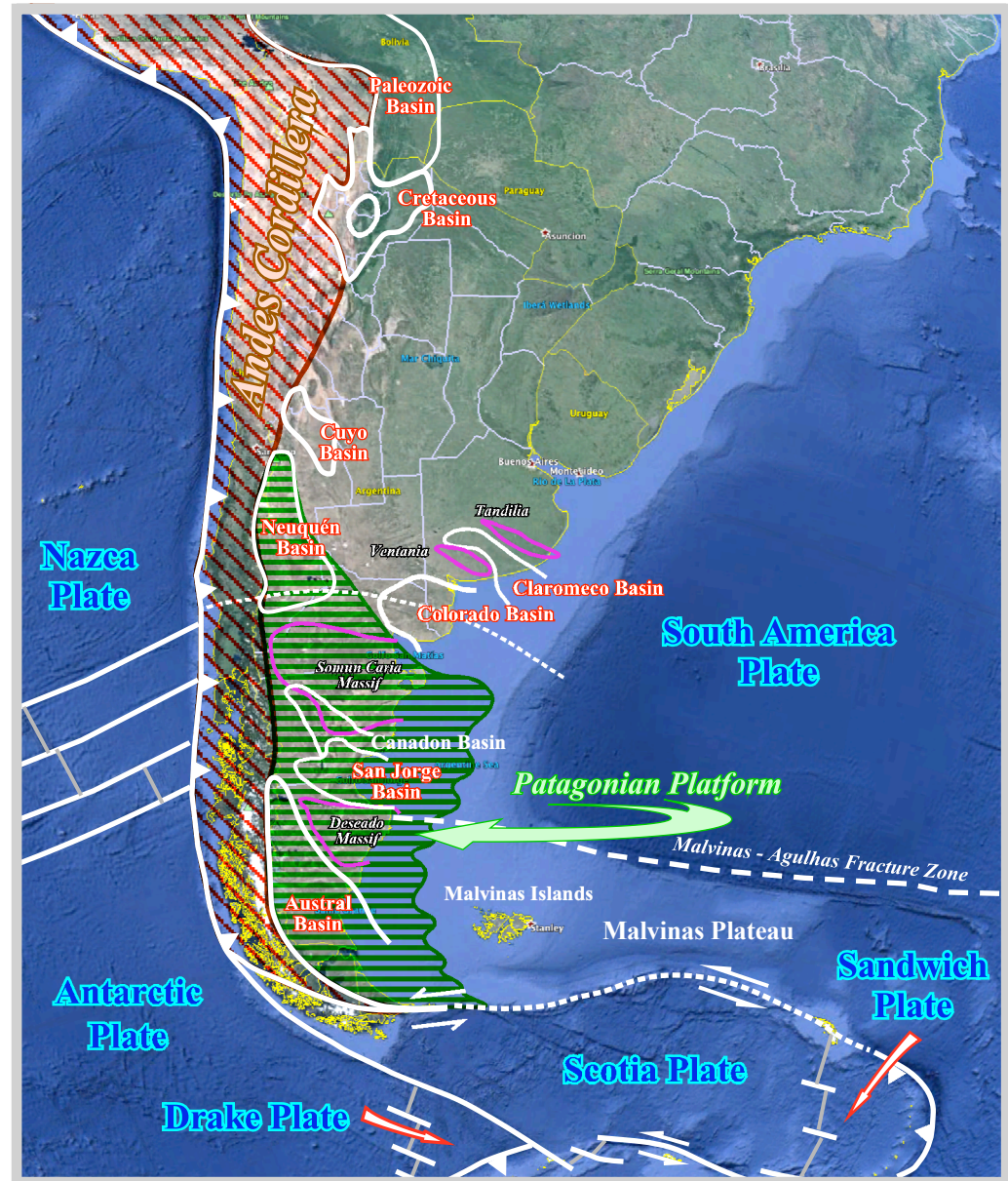
(Cretaceous Basin - Salta)

Regional Macrotectonic Features

Meso-Cenozoic Megasuture

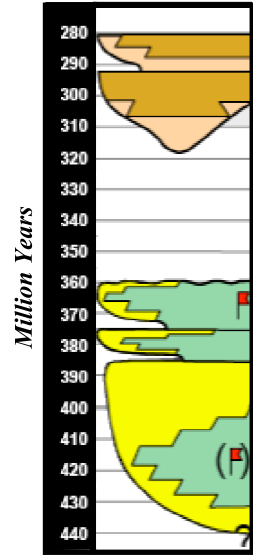


- Subduction B (Benioff)
- Subduction A (Ampferer)



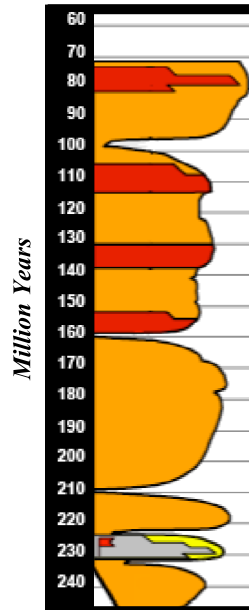
Prolific Argentina Basins

Paleozoic Basin



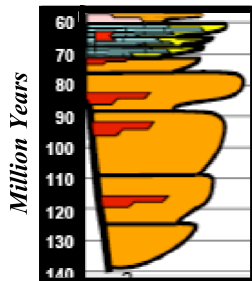
Main Source Rock :
Los Monos Formation,
Lower Devonian
Organic matter type II/III
to III/IV

Cuyo Basin



Main Source rock :
Cacheuta Formation,
Middle Triassic
Organic Matter type I

Cretaceous Basin



Main Source Rock :
Yacoraite Formation,
Lower Cretaceous
Organic matter type I (III)

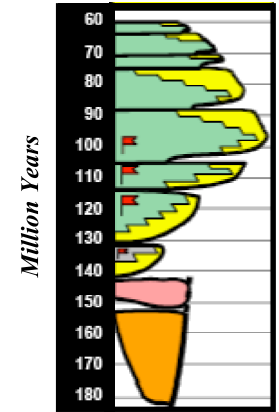


Neuquen Basin



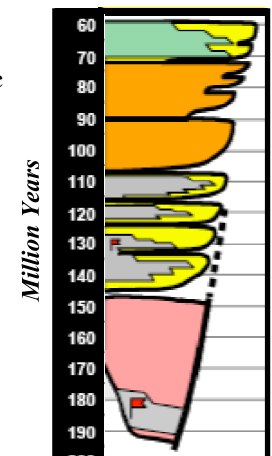
Agrio, E. Cretaceous
type II- II/III)
Vaca Muerta, L Jurassic
type I/II
Los Molles, E Jurassic
type II/III

San Jorge Basin



Main Source Rock :
D-129 Formation,
Early Cretaceous,
Neocomian
type II(III)

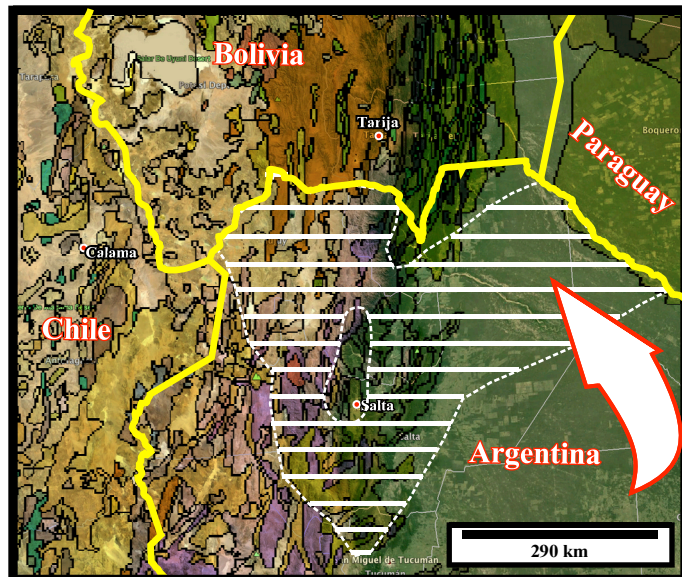
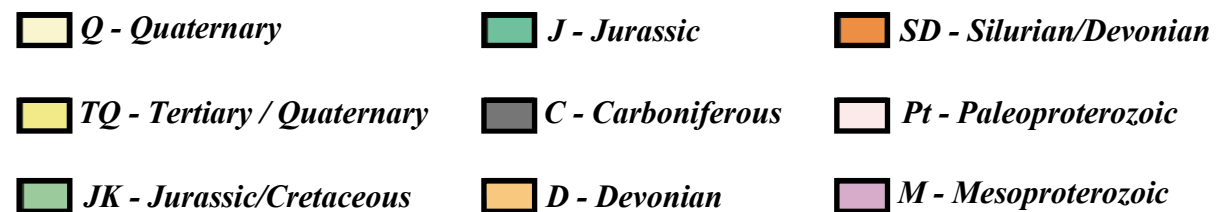
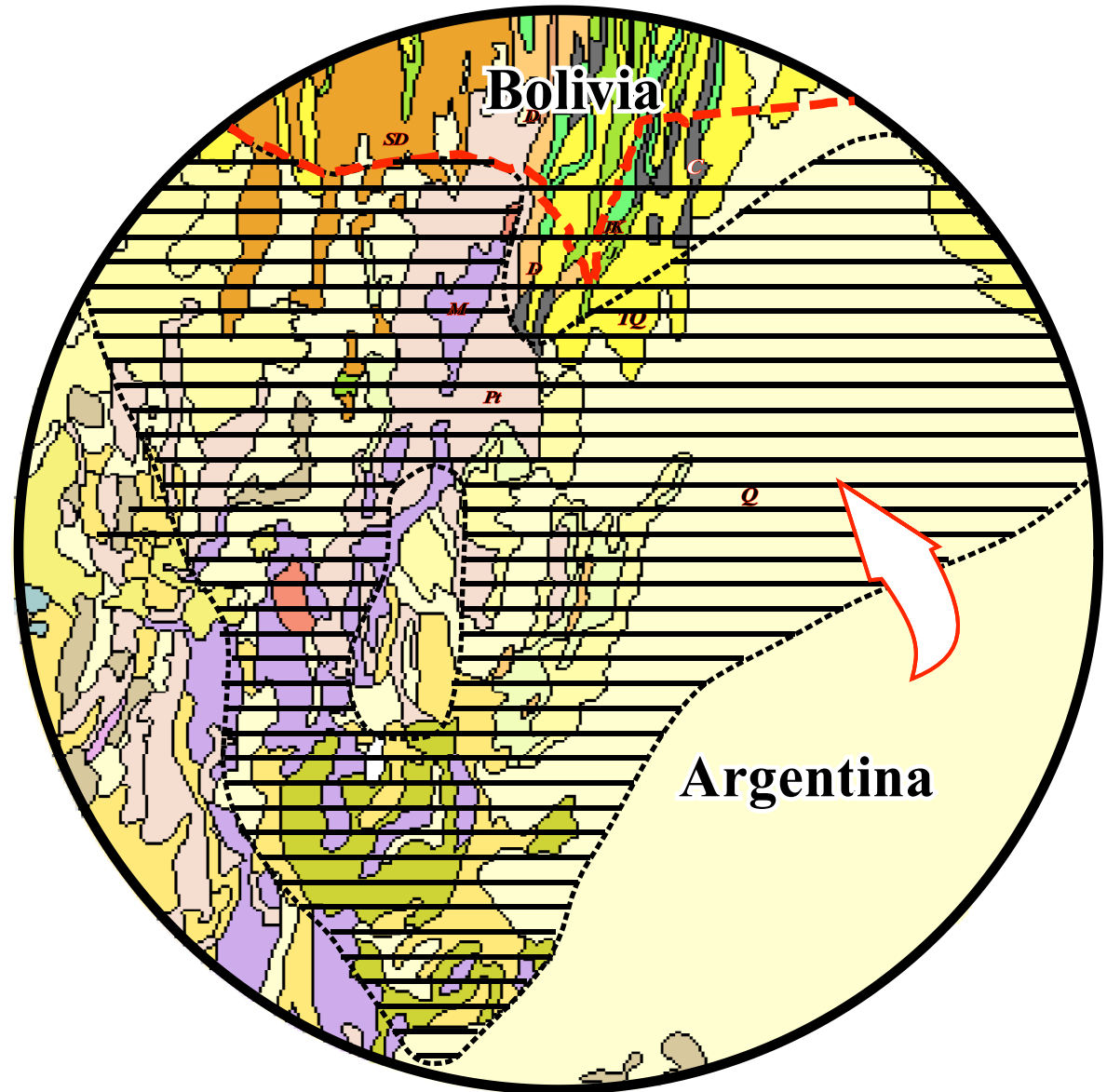
Austral Basin



Main Source Rock :
P. Aike Formation,
Organic matter type II/III
S. Tobifera Formation,
Organic matter type I/III

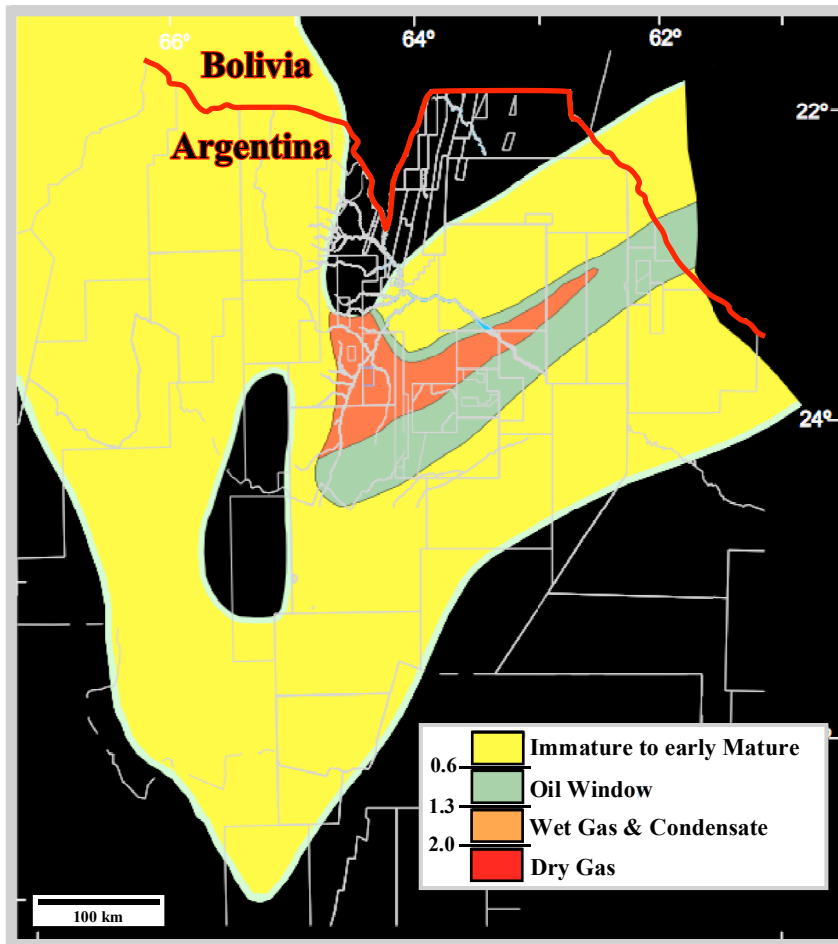
Cretaceous Basin

Location Map



Cretaceous Basin

SR : Yacoraite Formation (Late Cretaceous)



Source rock consists of thin beds of organic-rich black shales interbedded with limestones deposited in a Late Cretaceous-Paleocene extended shallow lake.

TOC : 0.5-6 %

Kerogen Type : II (III)

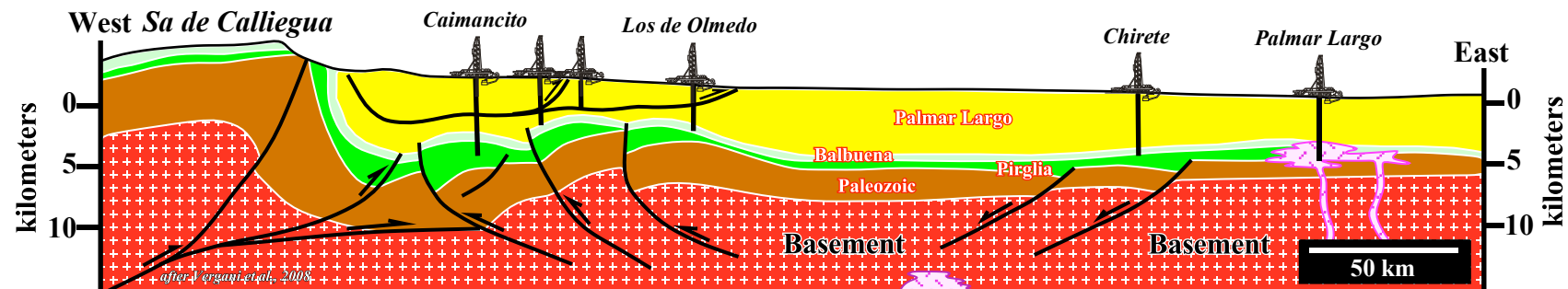
VKA : Amorphous

Source Quality/Maturity :

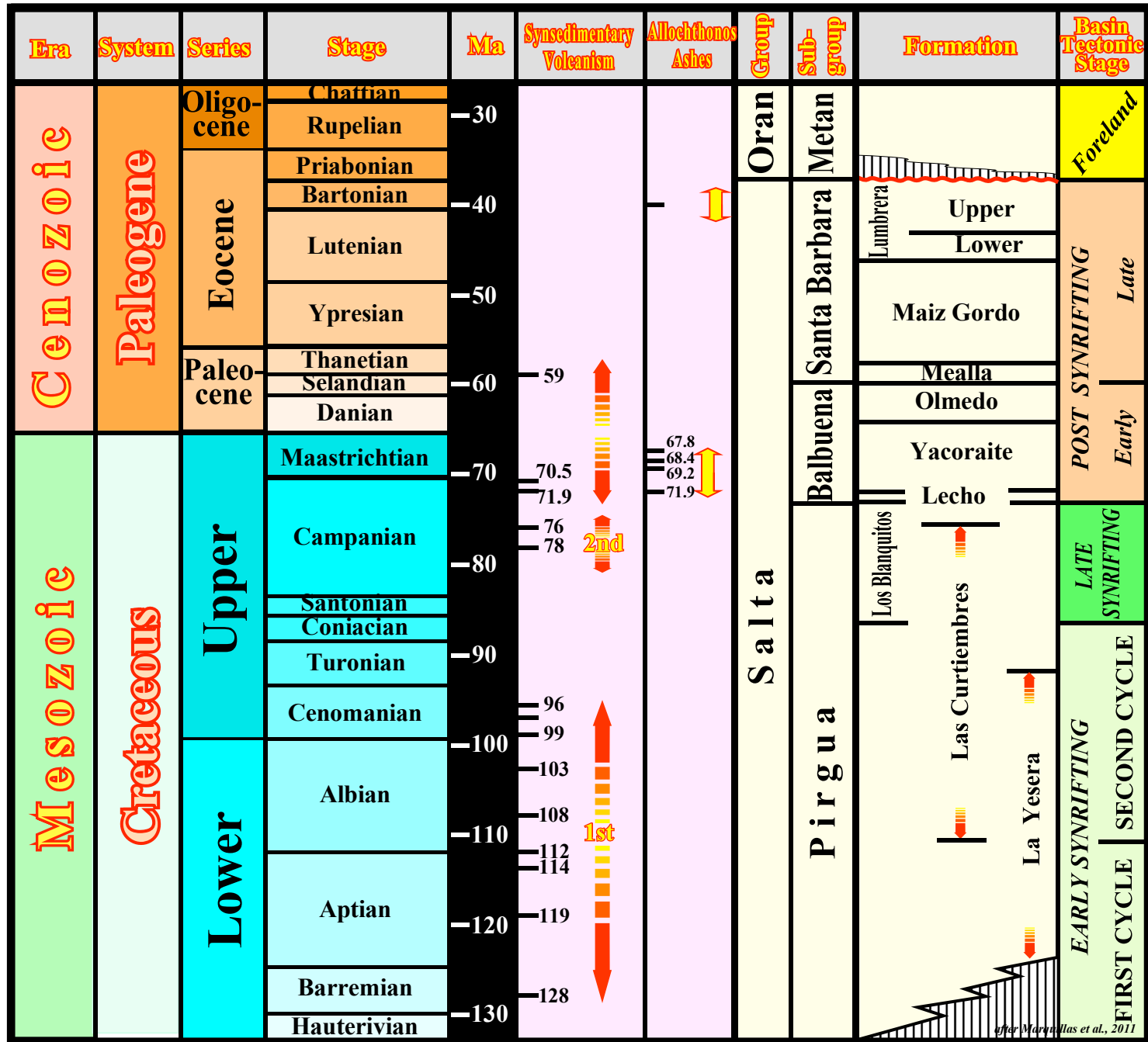
Moderate to good-quality oil-prone in thin organic-rich layers.

Thickness :

Total value of 5 to 50 meters obtained from thick packages consisting of thin beds of organic-rich shales alternating with limestones.

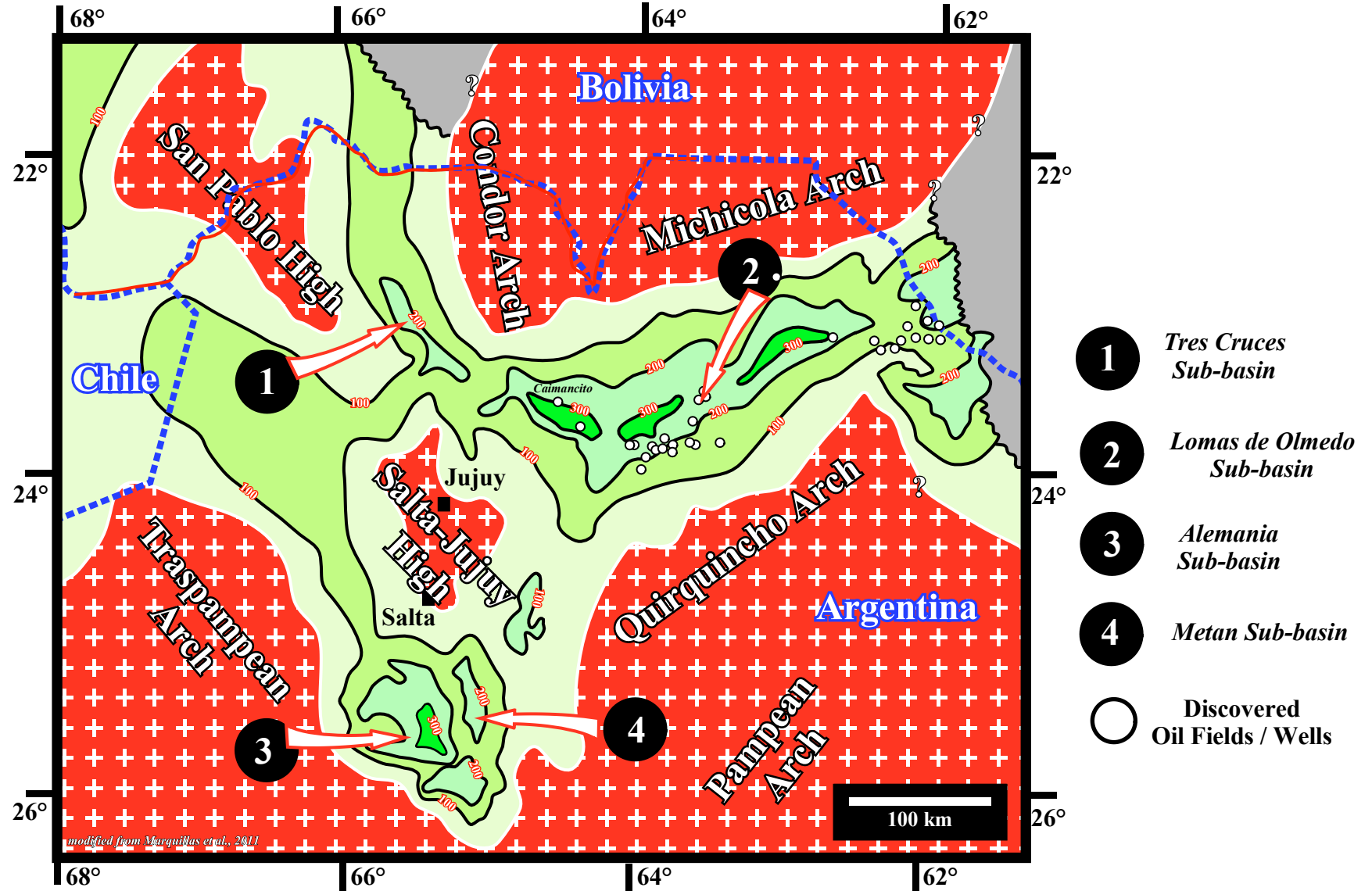


Cretaceous Basin Stratigraphy



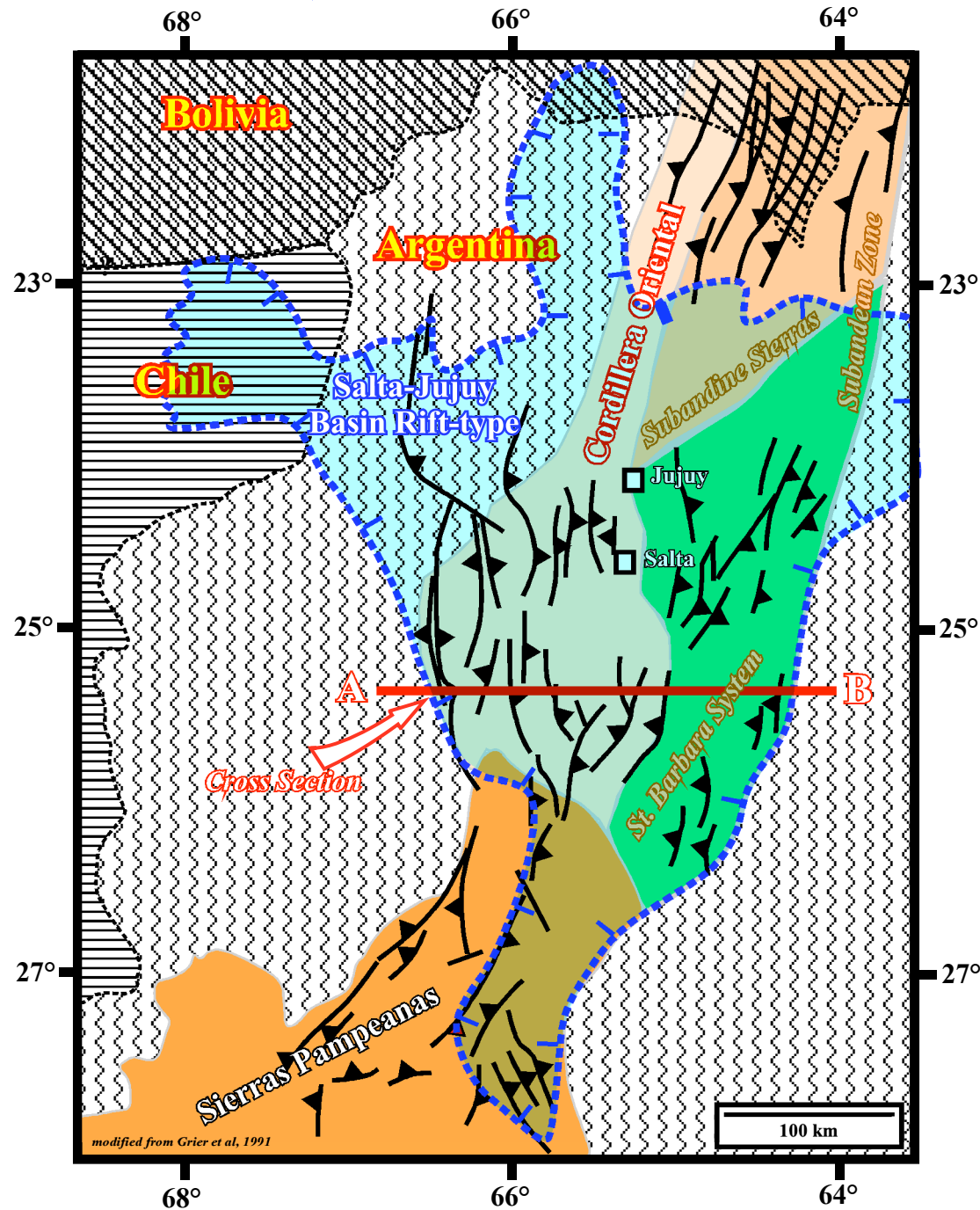
Isopach Map of the Yacoraite Formation

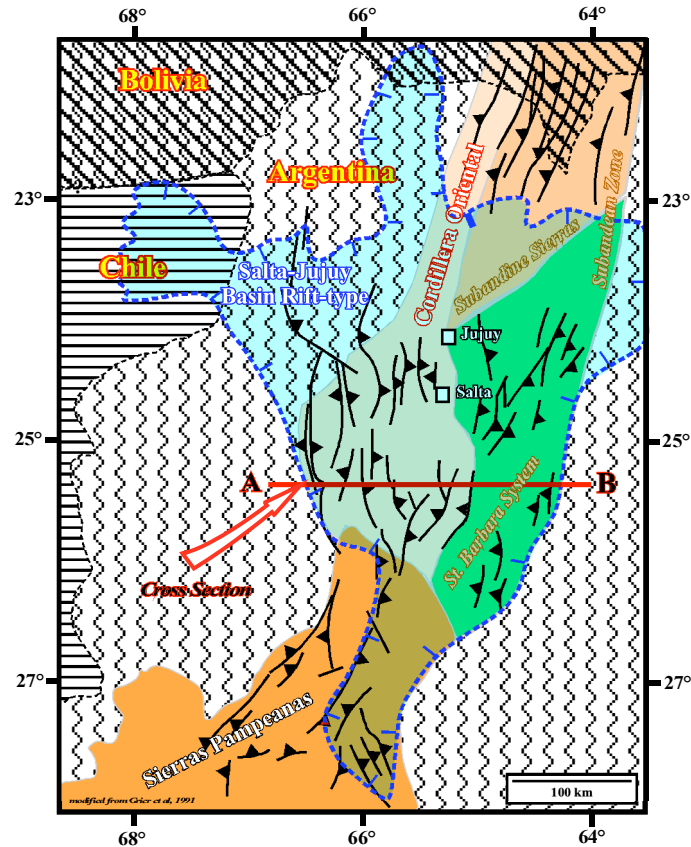
(in meters)



Structural Provinces in Cretaceous Basin

(Northwest Argentina)





Map illustrating the structural provinces in northwest Argentina (Grier et al., 1991). The boundary between the Transition Zone and the inclined subduction area to the north is located roughly at 24° S, where the Cordillera Oriental narrows. Cross-section X-X' is shown below. The Subandean zone boundary between the Sierras Subandinas and the Sistemas de Santa Bárbara follows the trend of the Santa Bárbara Ranges. The irregular southern limit of the Transition Zone is marked by the boundary with the Sierras Pampeanas. Heavy dashed lines denote the approximate boundaries of the Salta rift. Rio Irya (IR) is located in the Sierras Subandinas.

Geological Cross-Section A-B (Cordillera Oriental / St. Barbara System)

