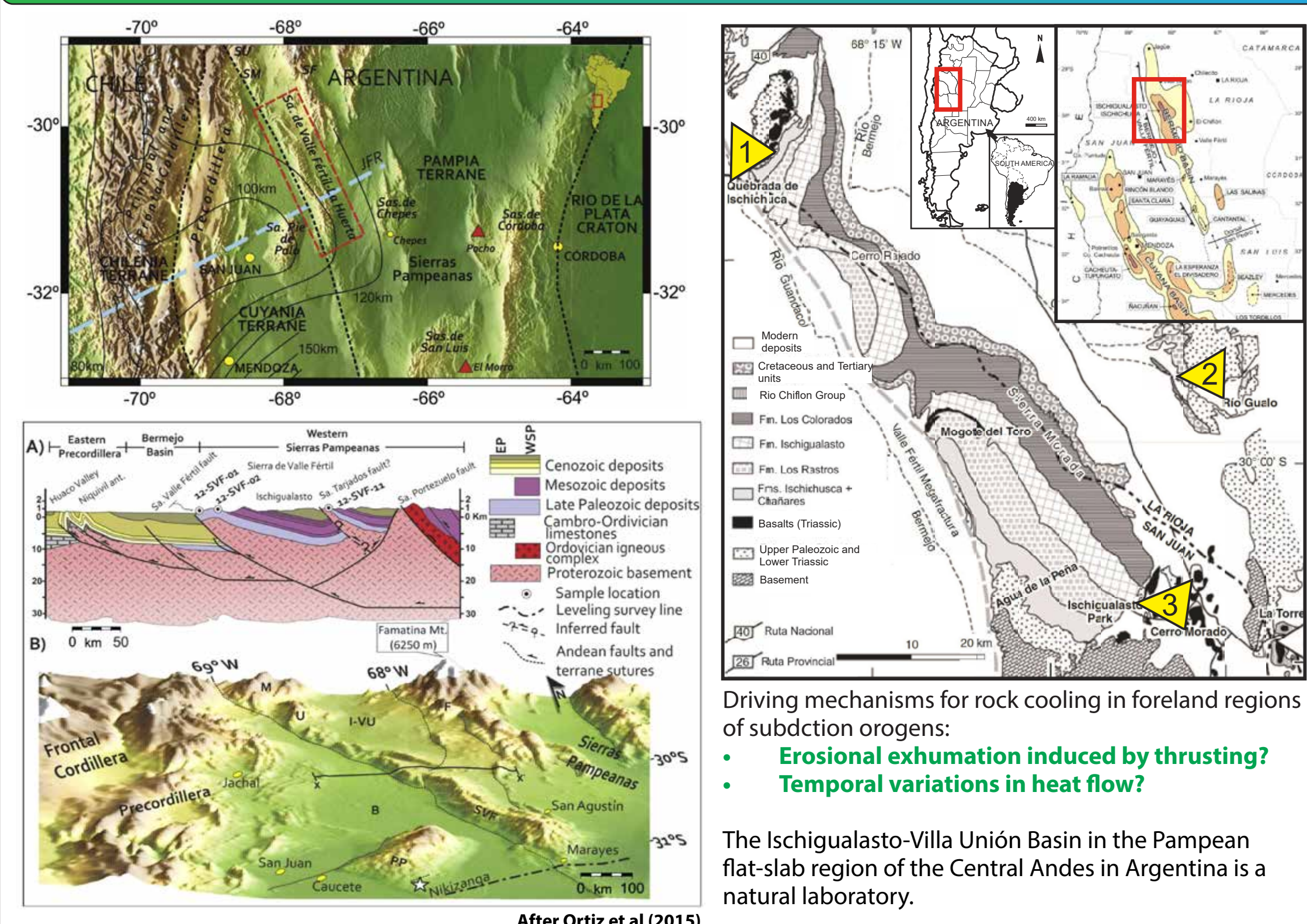
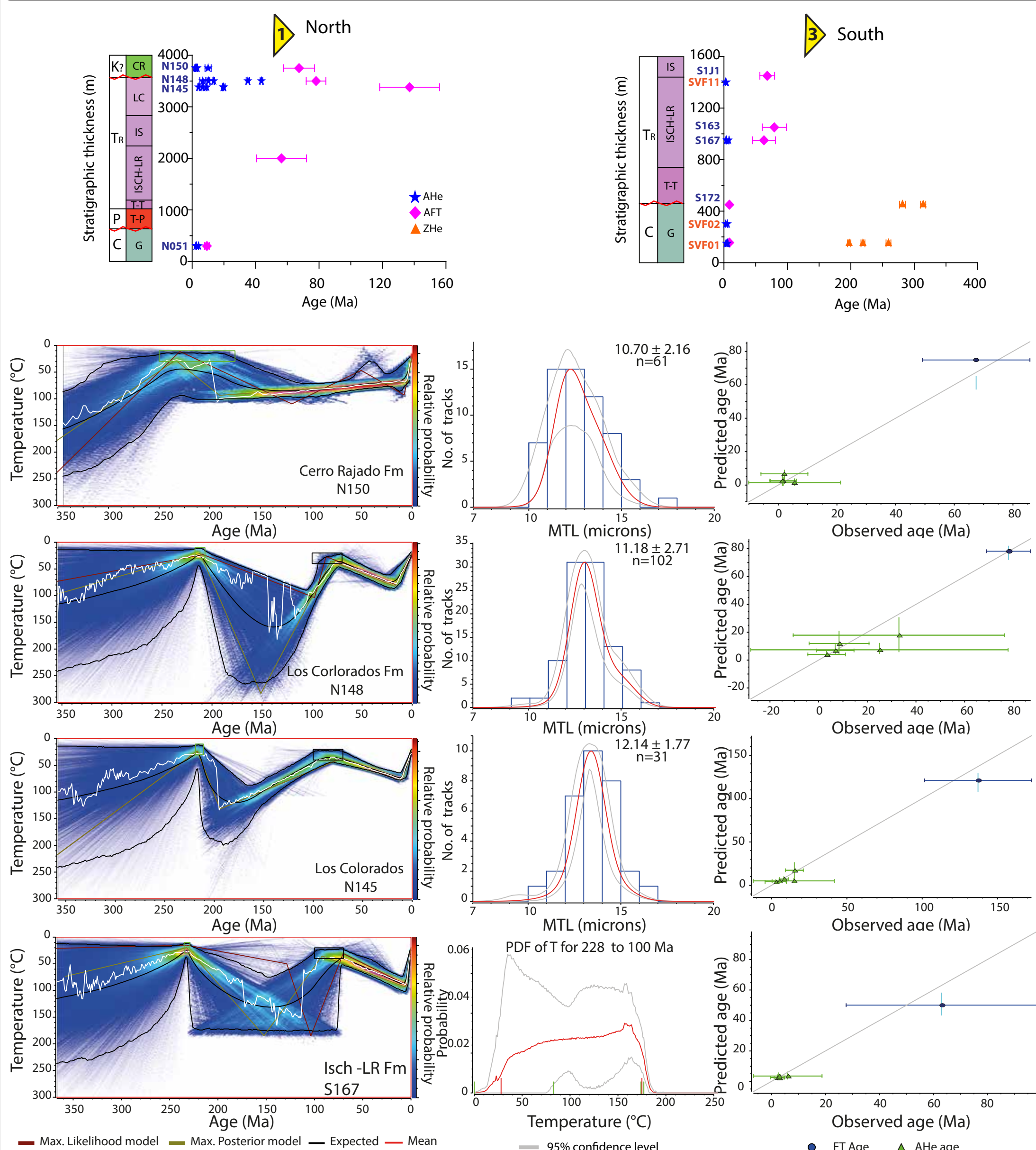


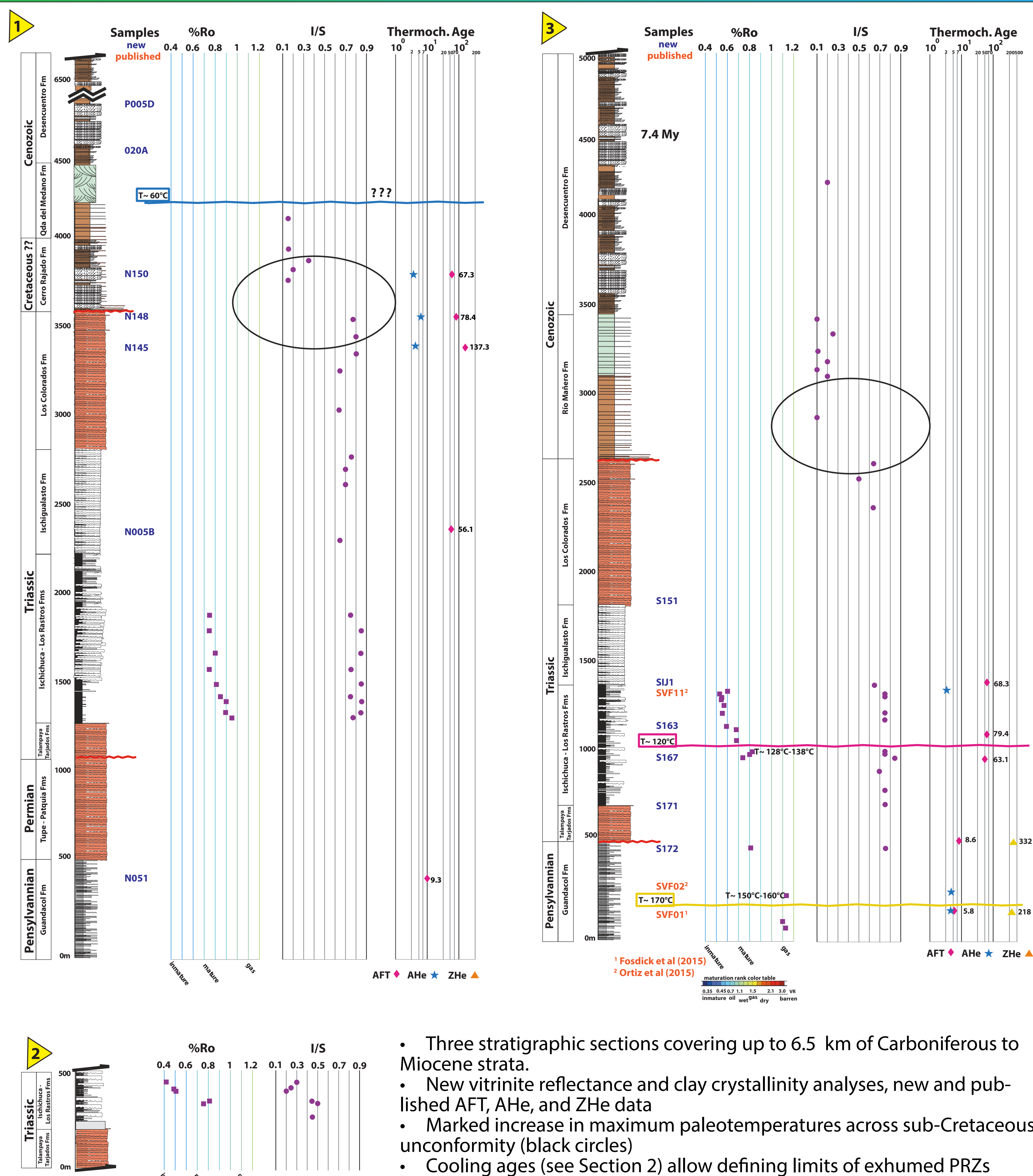
INTRODUCTION



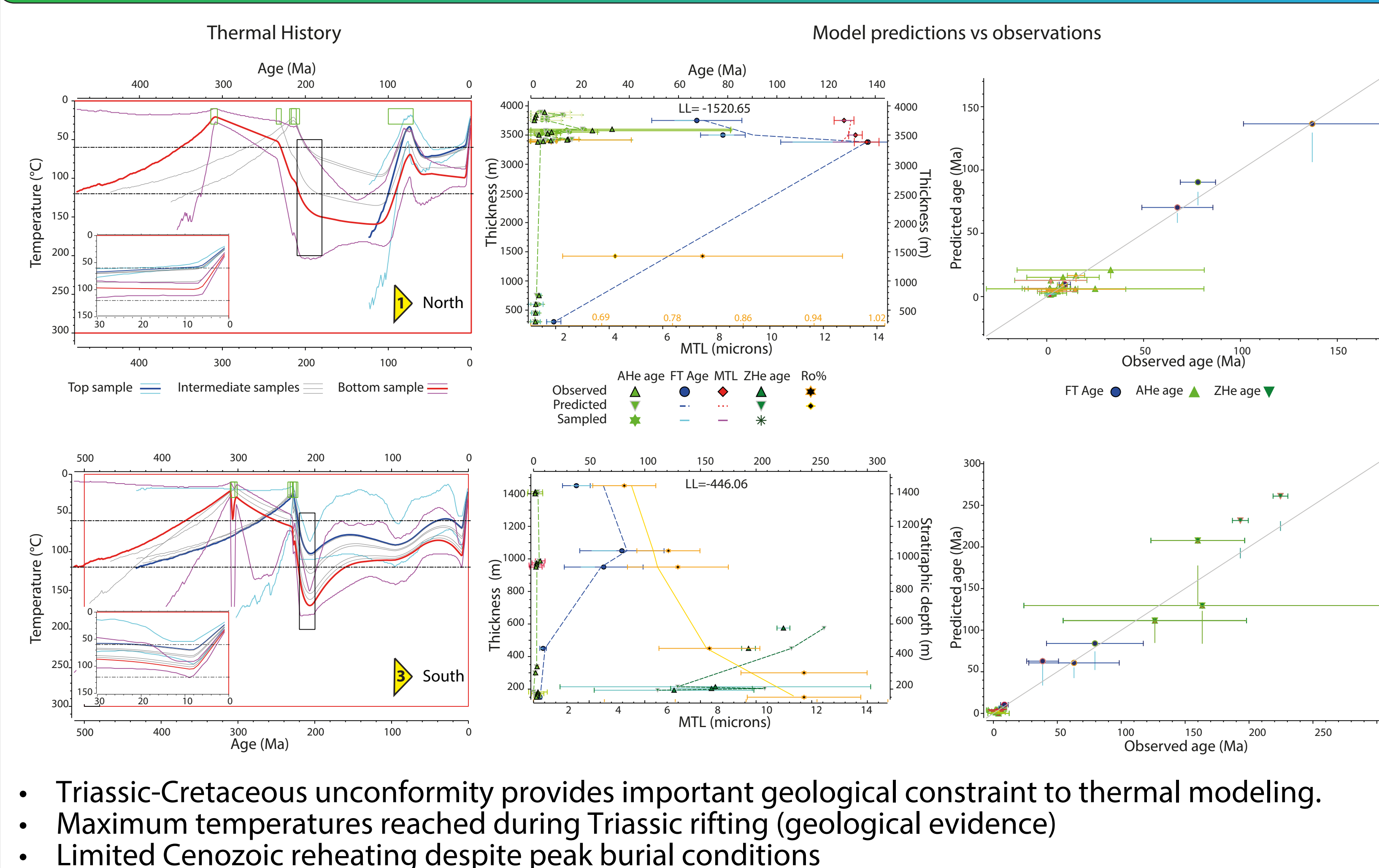
2. THERMOCHRON AGES AND THERMAL MODELS



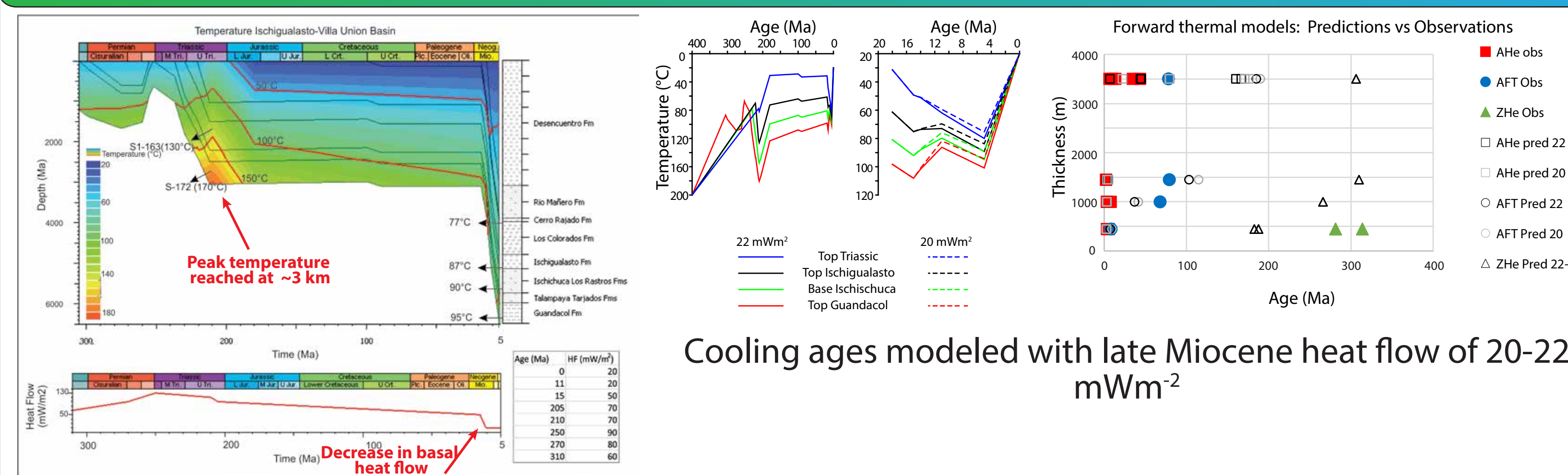
1. STRATIGRAPHY AND MULTI-METHOD PALEOTHERMOMETRY



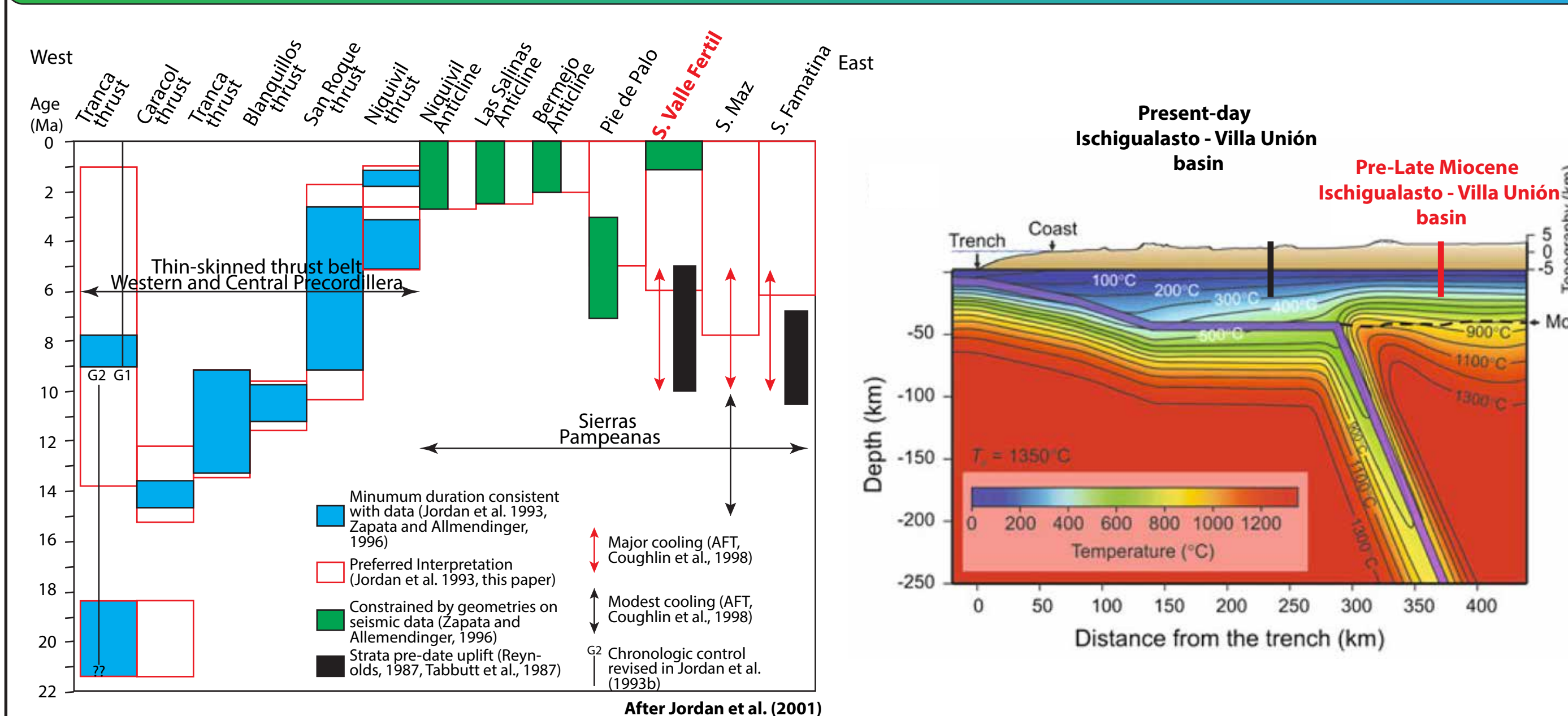
3. MULTI-SAMPLE THERMAL MODELING



4. FORWARD THERMAL MODELING



5. COOLING VS EXHUMATION SIGNALS



Example of cooling and exhumation signal decoupled in subduction orogens, call for a rigorous interpretation of cooling paths in Andean fold-and-thrust belts.

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REFERENCES

Fosdick et al. (2015), Faulting and erosion in the Argentine Precordillera during changes in subduction regime: Reconciling bedrock cooling and detrital records, *Earth and Planetary Science Letters* 432, 73-83.
Jordan et al. (2001), Unsteady and spatially variable evolution of the Neogene Bermejo foreland basin, Argentina, *Journal of South American Earth Sciences* 14, 775-798.
Ortiz et al. (2015), Active deformation in the northern Sierra de Valle Fértil, Sierras Pampeanas, Argentina, *Journal of South American Earth Sciences* 64, 339 - 350.