

# Contact: jlsanhueza@uc.cl

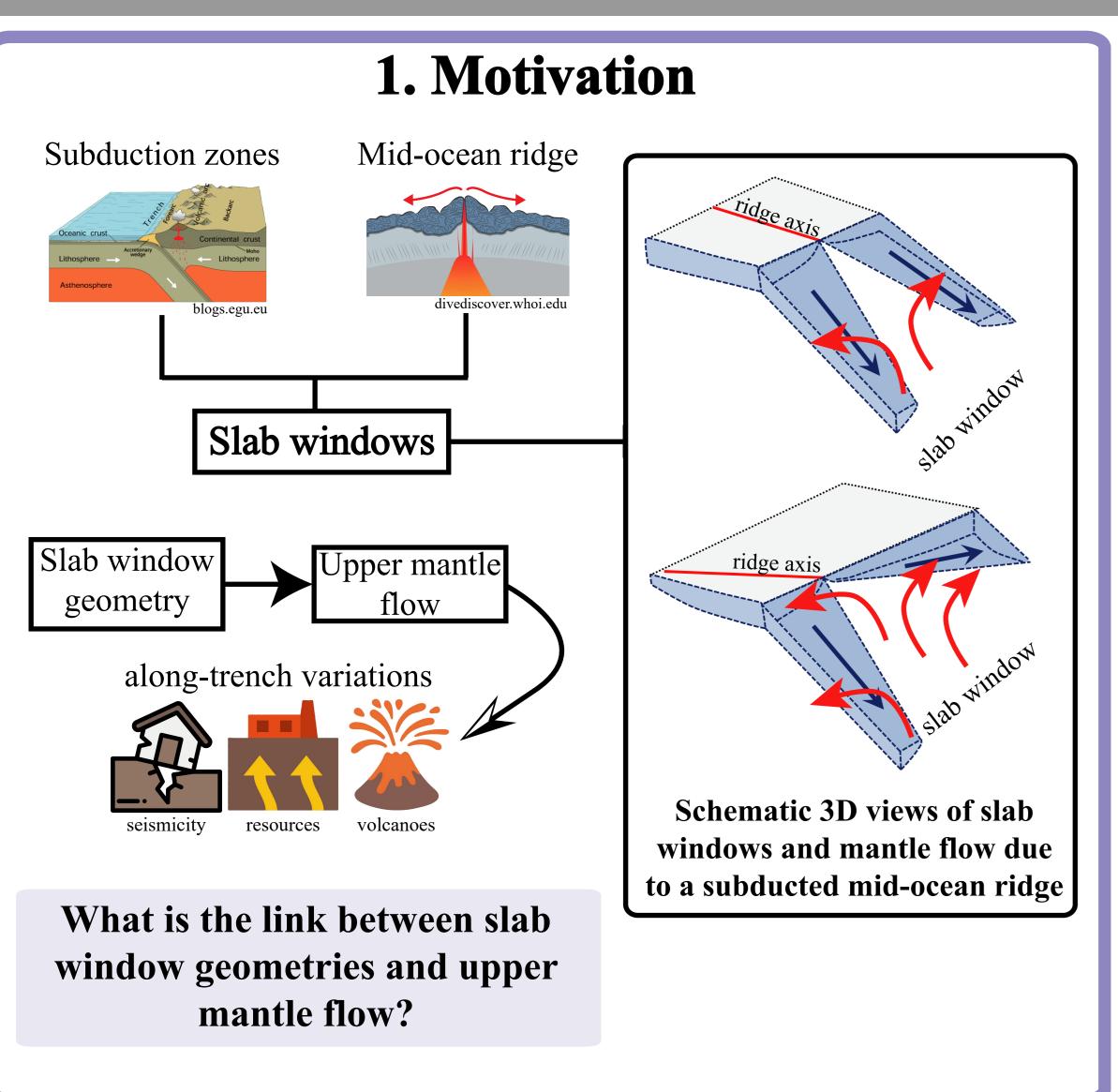
# Slab window geodynamics: towards an integrated understanding of upper mantle dynamics and observations

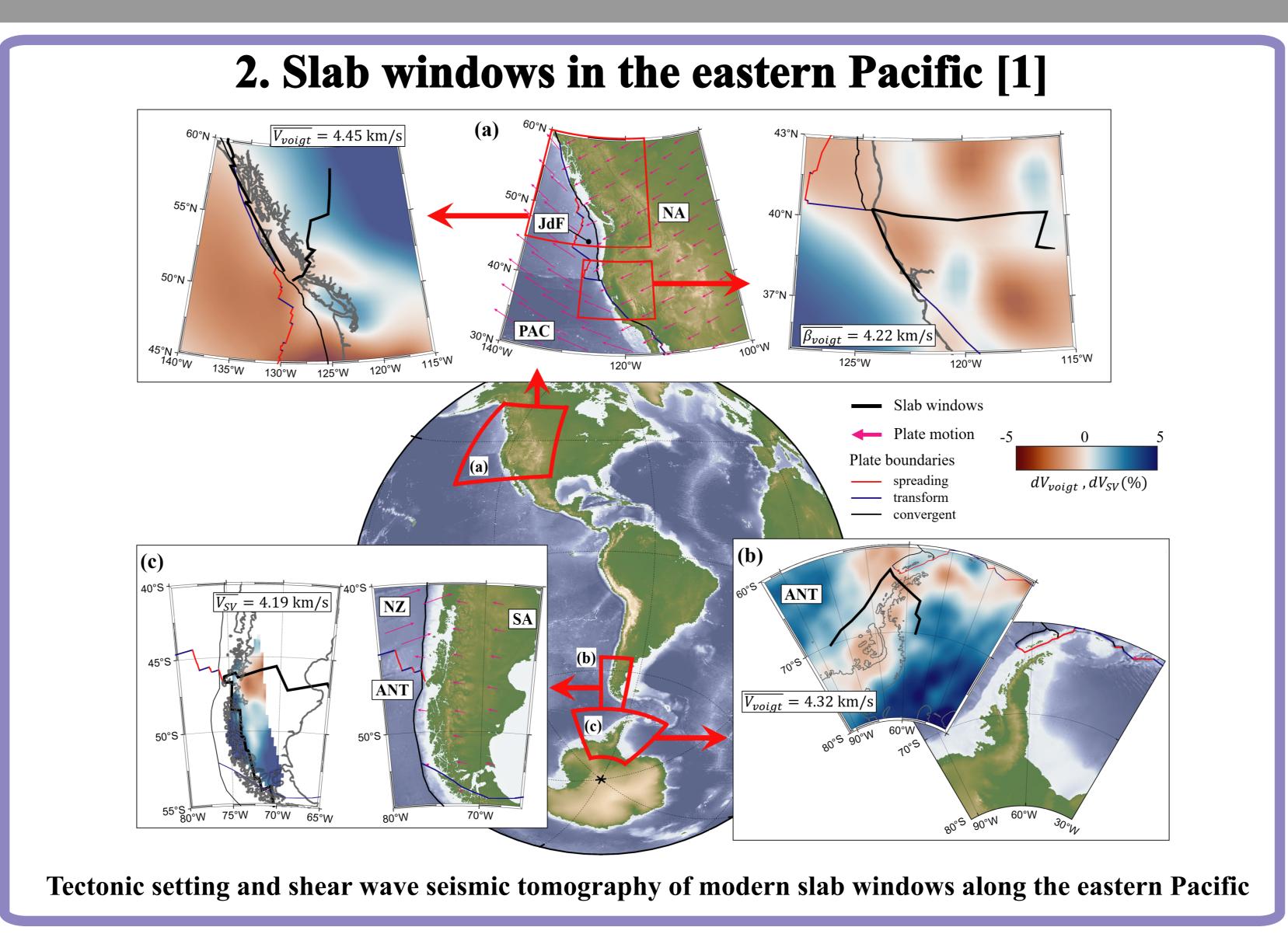


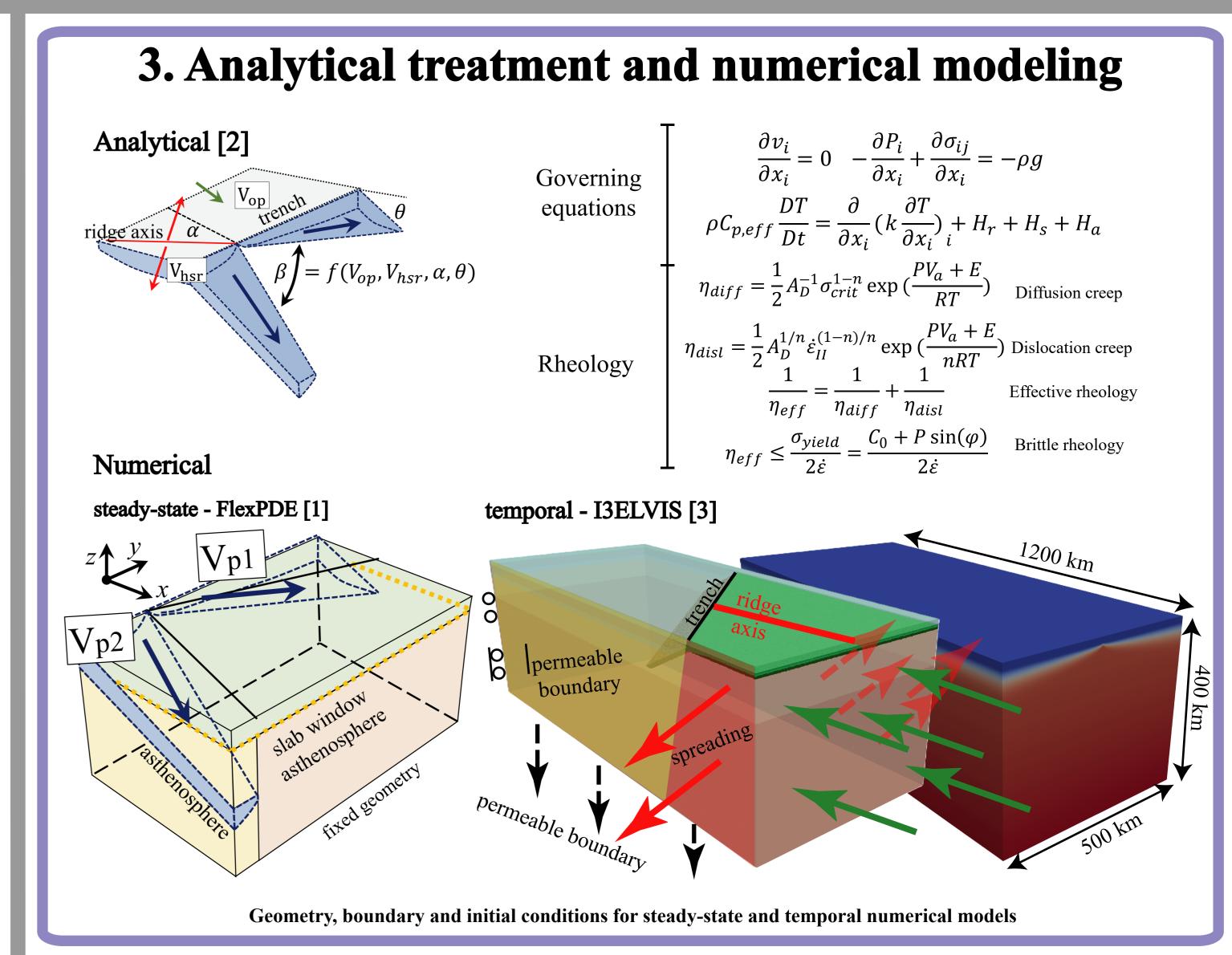


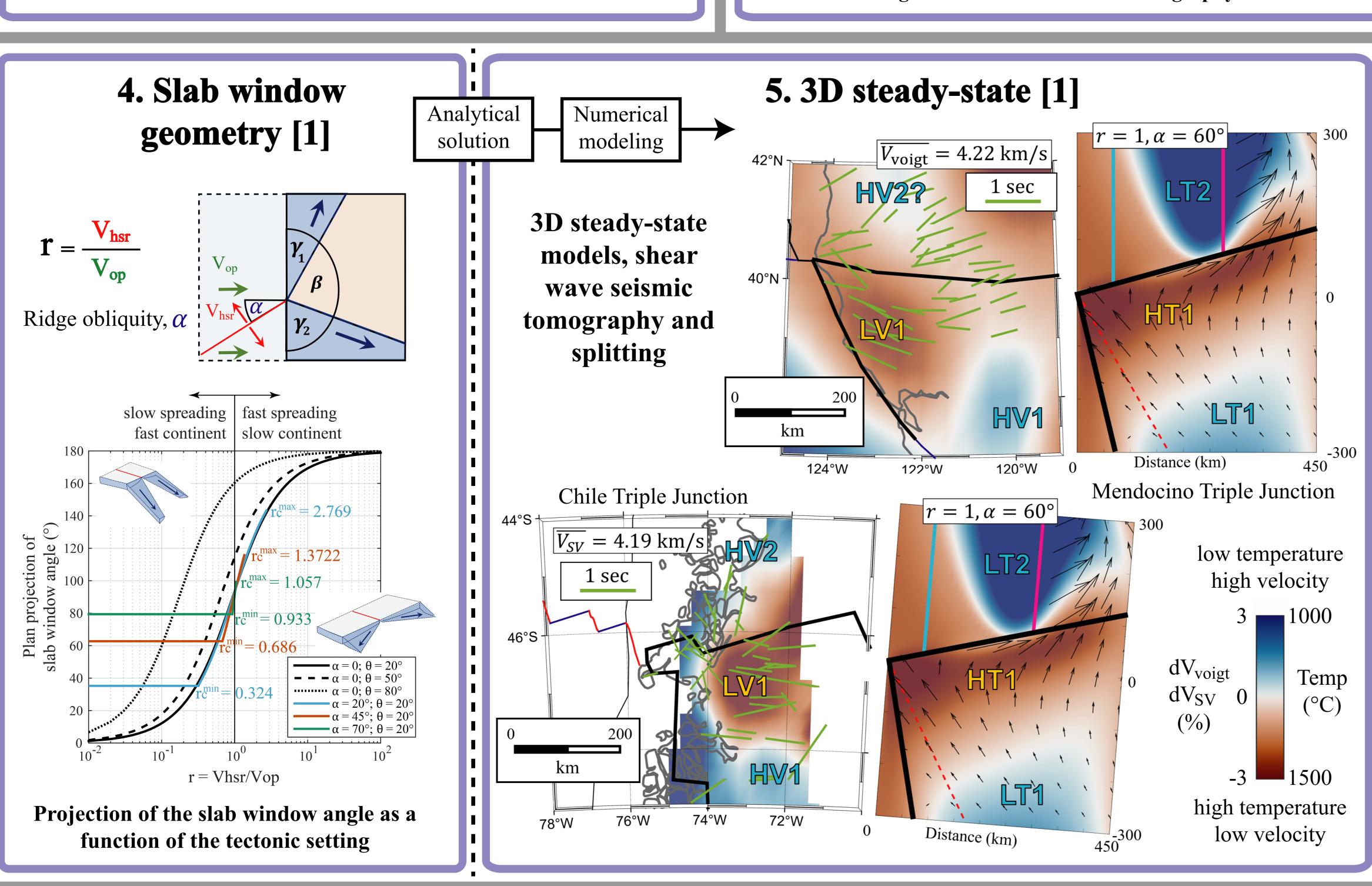
Sanhueza, J., Balázs, A., Gerya, T., Yáñez, G., Buck, R.

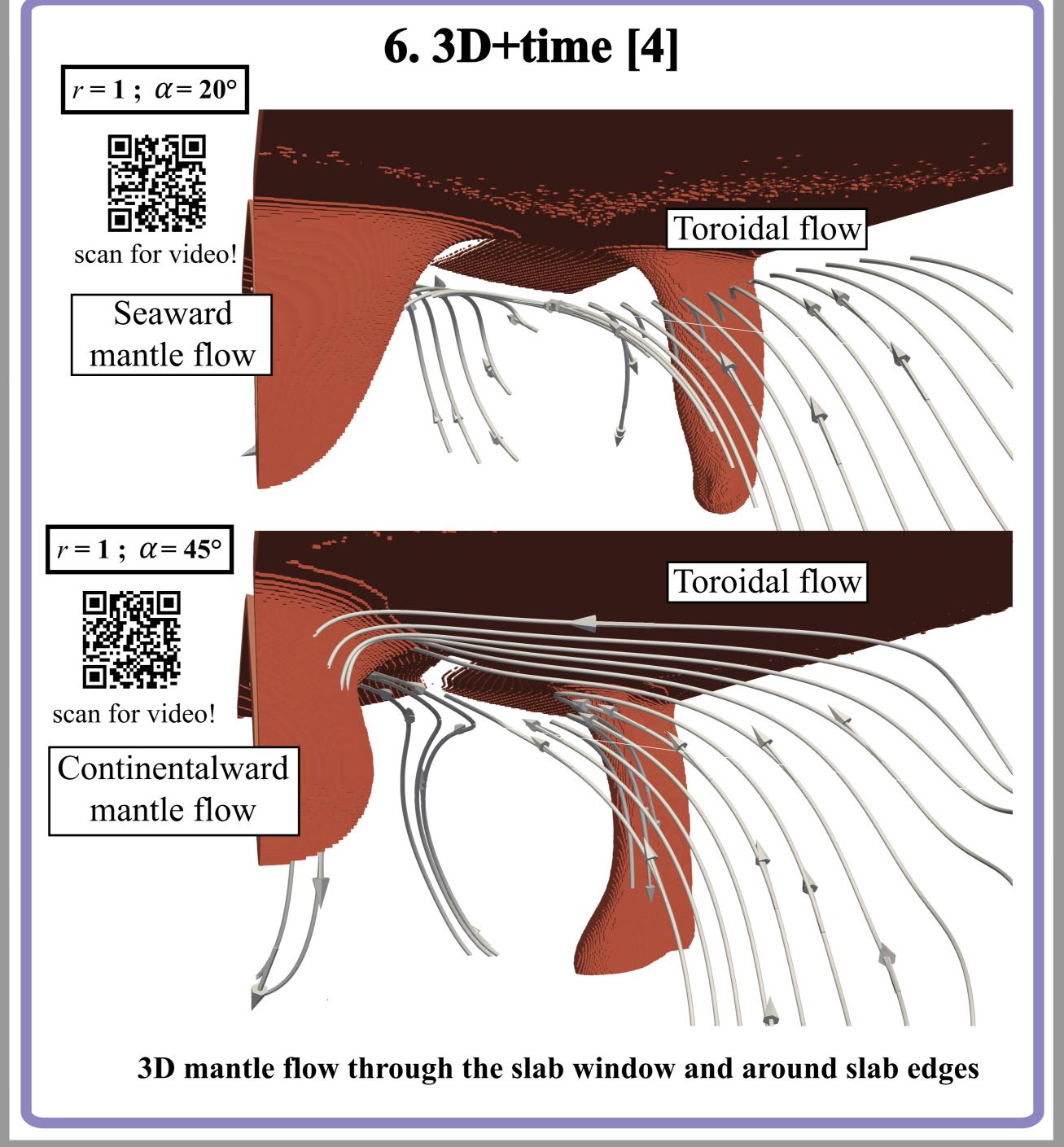
(1) Pontificia Universidad Católica de Chile; (2) Institue of Geophysics, ETH Zürich, Switzerland (3) Lamont-Doherty Earth Observatory, Columbia University, USA







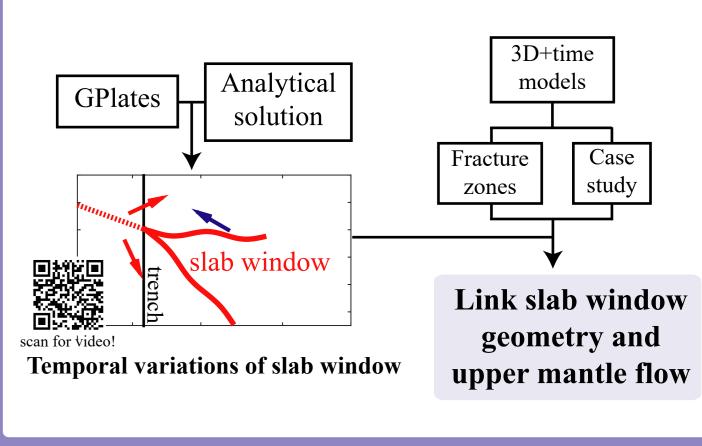




### 7. Conclusions

- Both 3D models develop upwelling and seaward mantle flow near the triple junction and toroidal flow around slab edges.
- Temporal models develop both seaward and continentalward upper mantle flow on each subducted slab.

## 8. Outlook



### **References**

#### [1] Sanhueza et al. (2023). EPSL, 623, 1-10 [2] Thorkelson (1996). Tecto, 225(1-2), 47-63

[4] Sanhueza et al. (2024). In-prep.

[3] Gerya & Yuen (2007). PEPI, 165(1-4), 83-105

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