



Activity Report 2024 – Task Forces / Coordination Committees

Project Title: Coordinating Committee for East Antarctica

Project No.: CC 5

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1. Highlights of recent ILP Task Force work/results

- Upgrade of GNSS stations in the sector of East Antarctica between Davis and Casey stations to include telemetry, including contributions from National Antarctic Programs of Germany and Australia.
- Magnetotelluric soundings made in the Denman Glacier region by the Australian program.
- Deployment of seismic stations in the Denman Glacier region by the Australian program, in dialogue with the Federation of Digital Seismic Networks.
- Deployment of seismic stations in the South Pole region by the US Antarctic Program.

2. Presence at international meetings/workshops (this year)

- European Geosciences Union, EGU Vienna 2024.
- Scientific Committee on Antarctic Research, SCAR, Open Science Conference, Chile, August 2024.

3. Important publications of ILP Task Force members (max. five)

Fu, L., Guo, J., Shen, W., Wang, X., Liu, X., Chen, X., & Hu, X. (2024). Geophysical evidence of the collisional suture zone in the Prydz Bay, East Antarctica. *Geophysical Research Letters*, 51, e2023GL106229. <https://doi.org/10.1029/2023GL106229>

Stål, T., Halpin, J. A., Goodge, J. W., & Reading, A. M. (2024). Geology matters for Antarctic geothermal heat. *Geophysical Research Letters*, 51, e2024GL110098. <https://doi.org/10.1029/2024GL110098>

King, M. A., & Christoffersen, P. (2024). Major modes of climate variability dominate nonlinear Antarctic ice-sheet elevation changes 2002–2020. *Geophysical Research Letters*, 51, e2024GL108844. <https://doi.org/10.1029/2024GL108844>

Cox, S.C., Smith Lyttle, B., Elkind, S. *et al.* A continent-wide detailed geological map dataset of Antarctica. *Sci Data* **10**, 250 (2023). <https://doi.org/10.1038/s41597-023-02152-9>

4. New contacts (this year)

New student contacts, with a focus on Earth-ice interactions, including:
Megan Kerr, PhD Student, University of Texas

5. Usage of ILP funding (this year)

No ILP funds used in 2024.

We request a carry-over of all remaining funds for previous years, and 2024 funds to support a major student/ECR support initiative in 2025.

6. Activities planned for 2025

- Joint meetings in association with EGU 2025, Vienna. Including student/ECR support, as above.
- Liaison with SCAR Groups including INSTANT Probing the Solid Earth and AGE (Antarctic Geological Evolution).