

Publications

1. MacGregor, J. A., Colgan, W. T., Paxman, G. J. G., Tinto, K. J., Csathó, B., Darbyshire, F. A., Fahnestock, M. A., Kokfelt, T. F., MacKie, E. J., Morlighem, M. & **Sergienko, O. V.** Geologic Provinces Beneath the Greenland Ice Sheet Constrained by Geophysical Data Synthesis. *Geophysical Research Letters* **51**. doi:10.1029/2023GL107357 (2024).
2. Huth[†], A., Duddu, R., Smith, B. & **Sergienko O.** Simulating the processes controlling ice-shelf rift paths using damage mechanics. *Journal of Glaciology*, 1–14. doi:10.1017/jog.2023.71 (2023).
3. **Sergienko, O.** & Haseloff, M. ‘Stable’ and ‘unstable’ are not useful descriptions of marine ice sheets in the Earth’s climate system. *Journal of Glaciology* **69**, 1483–1499. doi:10.1017/jog.2023.40 (2023).
4. Coffey[†], N. B., MacAyeal, D. R., Copland, L., Mueller, D. R., **Sergienko, O. V.**, Banwell, A. F. & Lai, C.-Y. Enigmatic surface rolls of the Ellesmere Ice Shelf. *Journal of Glaciology*, 1–12. doi:10.1017/jog.2022.3 (2022).
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9. **Sergienko, O. V.** Marine outlet glacier dynamics, steady states and steady-state stability. *Journal of Glaciology* **68**, 946–960. doi:10.1017/jog.2022.13 (2022).
10. **Sergienko, O. V.** No general stability conditions for marine ice-sheet grounding lines in the presence of feedbacks. *Nature Communications* **13**, 2265. doi:10.1038/s41467-022-29892-3 (2022).
11. **Sergienko, O. V.** & Wingham, D. J. Bed topography and marine ice-sheet stability. *Journal of Glaciology* **68**, 124–138. doi:10.1017/jog.2021.79 (2022).
12. Damsgaard[†], A., **Sergienko, O.** & Adcroft, A. The Effects of Ice Floe-Floe Interactions on Pressure Ridging in Sea Ice. *Journal of Advances in Modeling Earth Systems* **13**, e2020MS002336. doi:10.1029/2020MS002336 (2021).
13. MacAyeal, D. R., **Sergienko, O. V.**, Banwell, A. F., Macdonald, G. J., Willis, I. C. & Stevens, L. A. Treatment of ice-shelf evolution combining flow and flexure. *Journal of Glaciology*, 1–18. doi:10.1017/jog.2021.39 (2021).
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