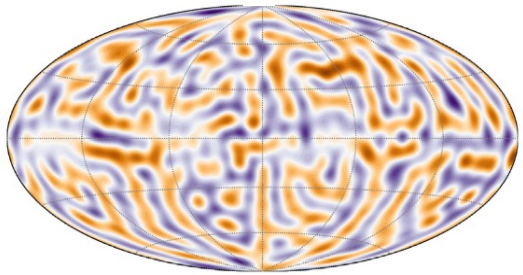
The influence of heterogeneous seafloor heat flux on the cooling patterns of Ganymede's and Titan's subsurface oceans

Terra-Nova, F., Amit, H., Choblet, G., Tobie, G., Bouffard, M., Čadek, O., 2023. *Icarus*, 389, 115232.



Thin shell rotating convection simulations with an imposed **seafloor heat flux** from high pressure ice convection simulation of **Titan's mantle** (Choblet et al., 2017)

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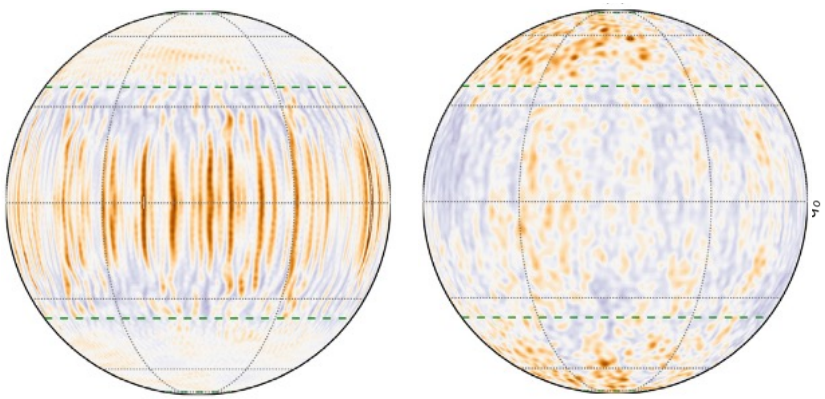
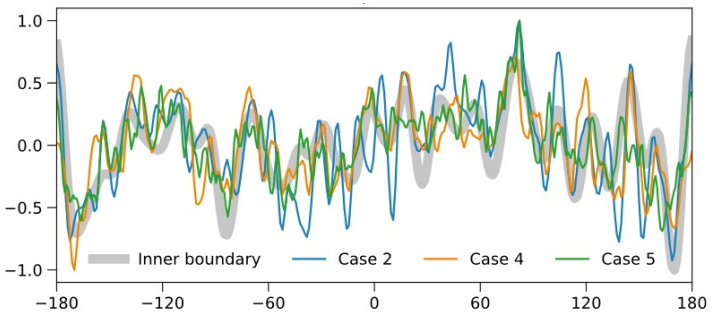
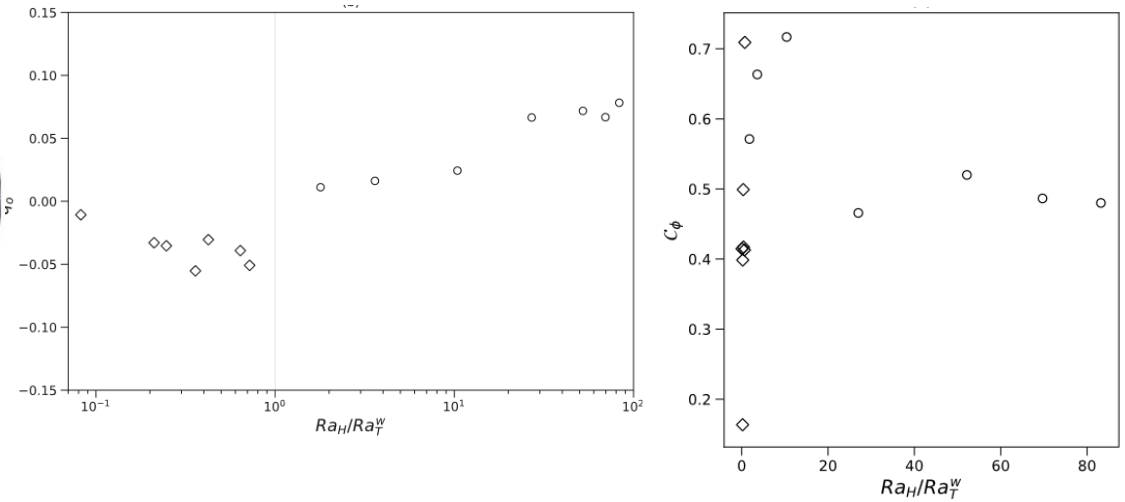


Equatorial (left) vs. **polar** (right) cooling



Boundary control – longitudinal **correlation** of **imposed inner** and resulting **outer heat flux**



Equatorial (diamonds) vs. **polar** (circles) cooling (left) and **longitudinal correlation** between **inner** and **outer** boundary **heat flux** (right) explained by a combined **dynamical** (effective Rossby number) and **boundary** (amplitude of imposed seafloor heat flux heterogeneity) effect