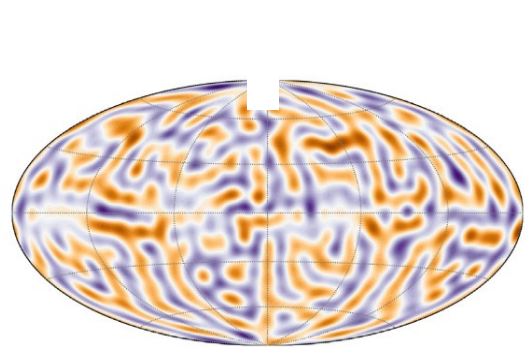
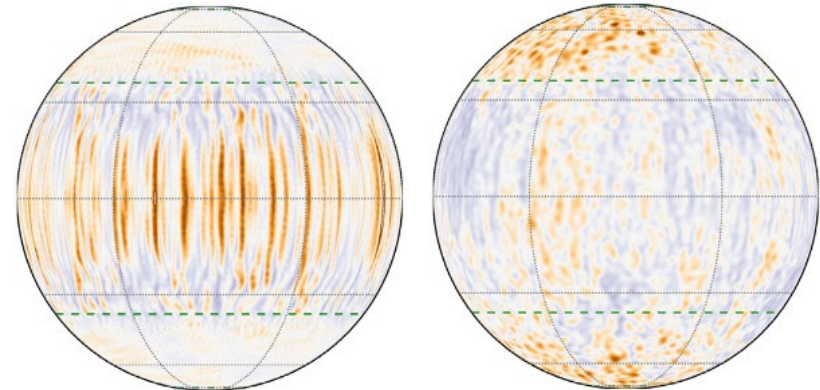


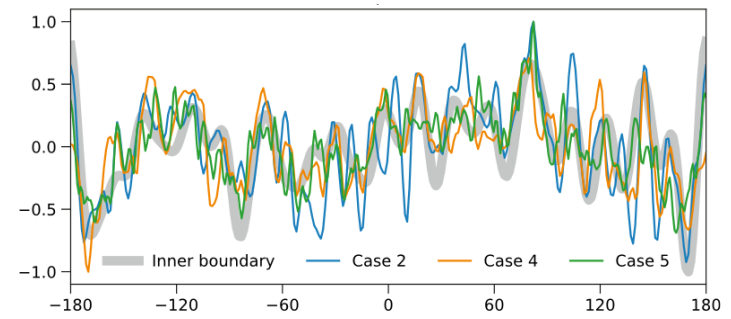
The influence of heterogeneous seafloor heat flux on the cooling patterns of Ganymede's and Titan's subsurface oceans



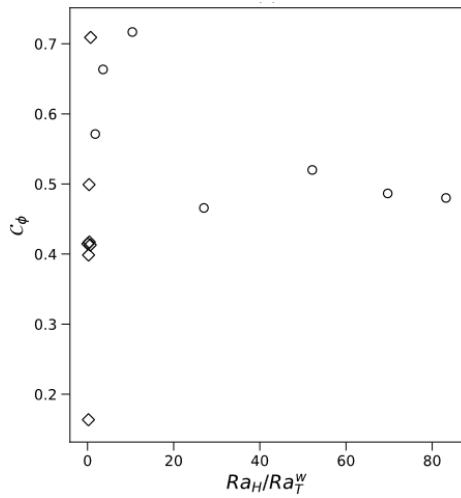
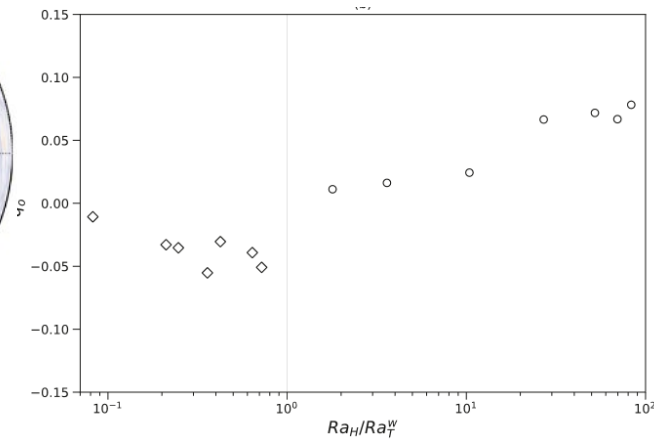
Thin shell rotating convection simulations with an imposed seafloor heat flux from high pressure ice convection simulation of Titan's mantle (Choblet et al., 2017)



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

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