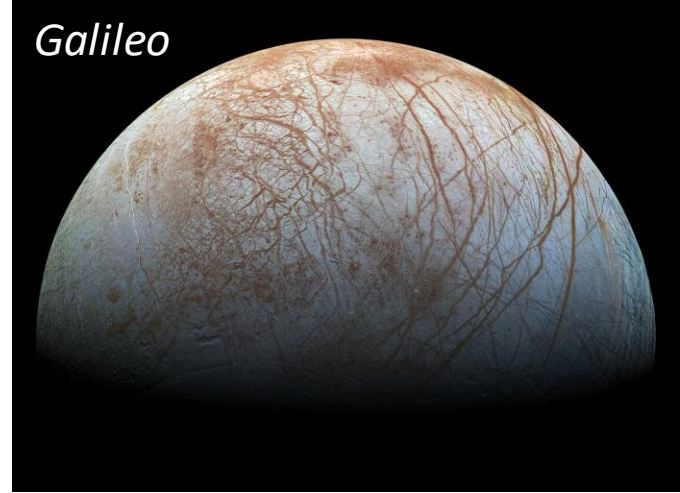
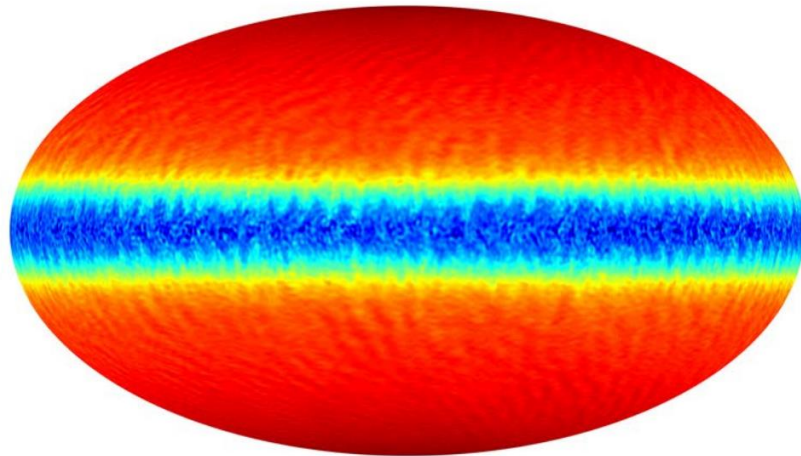


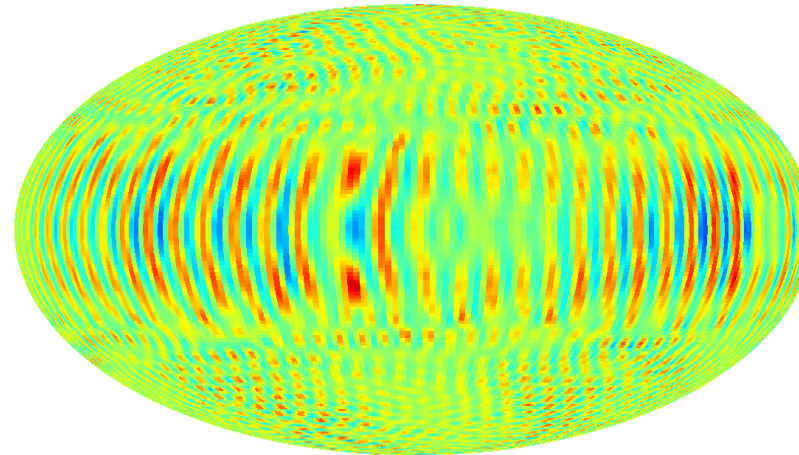
Turbulent convection and magnetically-driven flows in Europa's subsurface ocean



$$B_{\text{Jupiter}} \neq 0, Ra = 0$$



$$B_{\text{Jupiter}} = 0, Ra \neq 0$$



- New threshold for convection
- Modified spatial distribution of Nu
- Impact on the thickness of the ice

Gissinger, Petitdemange, *Nature Astronomy* 2019

$$U_{\phi}(r = r_i + d/3)$$

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