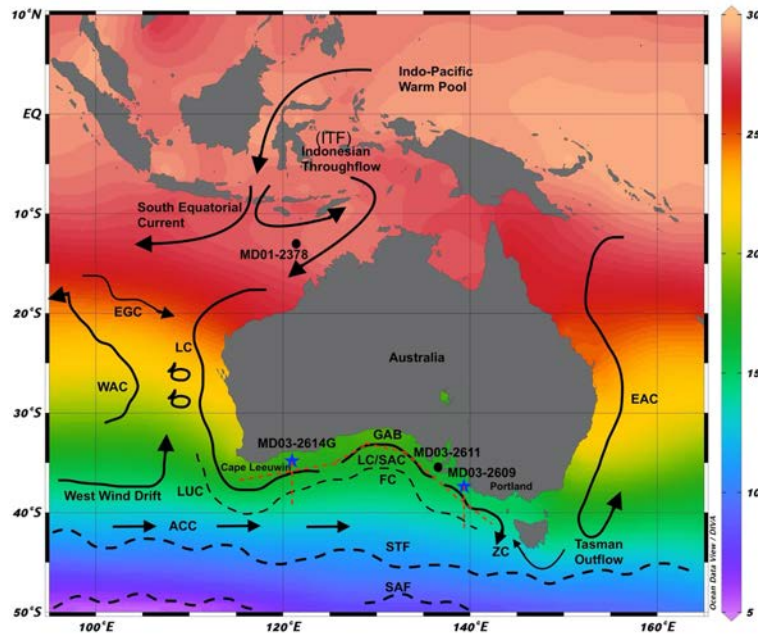


Last Glacial to Holocene Leeuwin Current dynamics south of Australia

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Our project aims at the surface and subsurface water mass variability south of Australia over the last 60 kyrs.

Stable oxygen isotope ($\delta^{18}\text{O}$) and Mg/Ca-based reconstructions of surface and subsurface temperatures ($\text{SST}_{\text{Mg/Ca}}$; $\text{subSST}_{\text{Mg/Ca}}$) and $\delta^{18}\text{O}_{\text{sw-ivc}}$ (approximating surface and subsurface salinity) from two sediment cores recovered with RV *Marion Dufresne* off southern Australia were accomplished.

We address past temperature and salinity variability at surface and subsurface depths in response to Leeuwin Current dynamics, Indonesian Throughflow intensity, as well as latitudinal shifts of the Subtropical Front (STF) and Intertropical Convergence Zone (ITCZ).

