

The expedition

Sailing for 21 months to sample the ocean microbiome and share with the public

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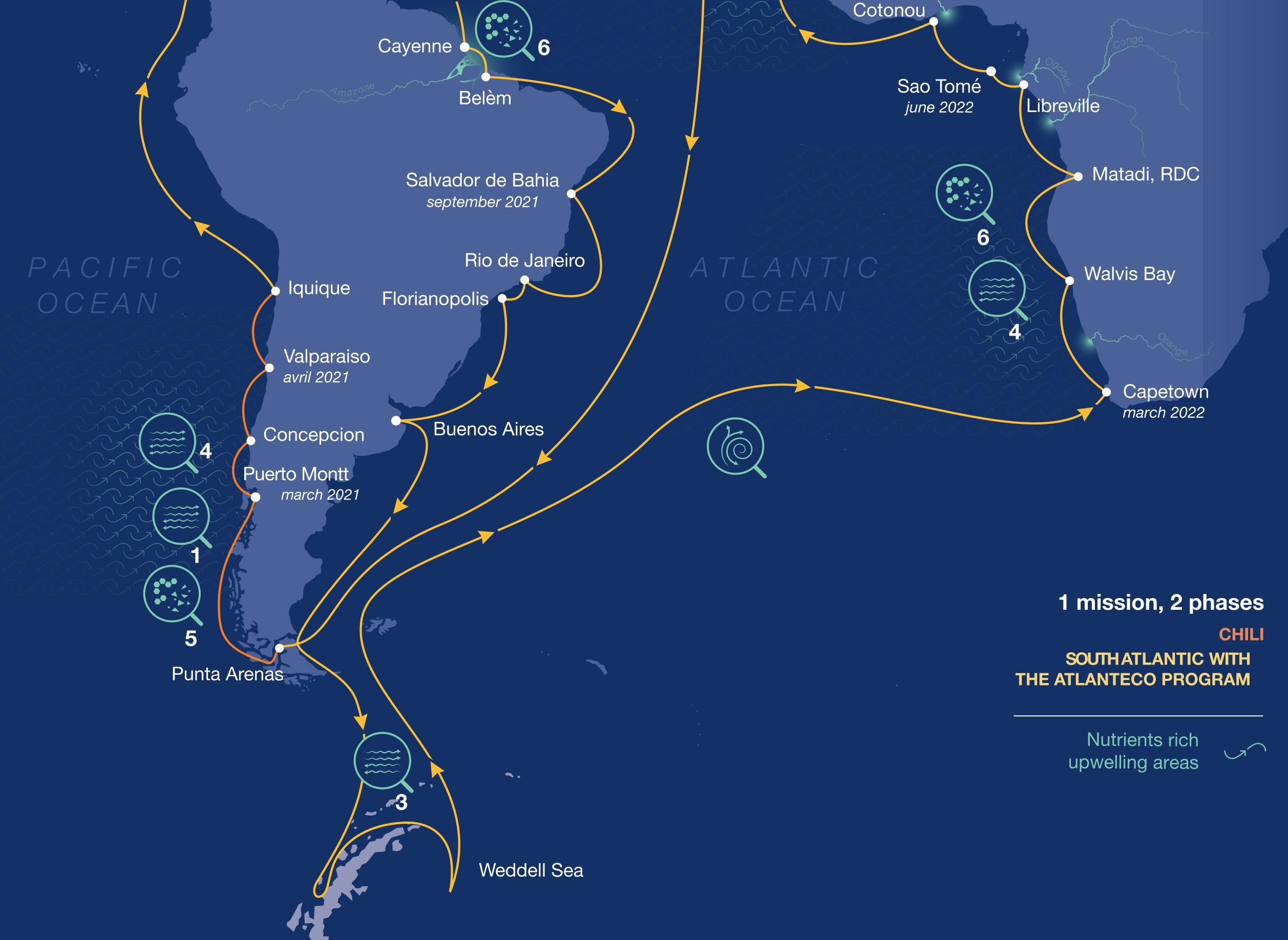
Pointe à Pitre july 2021 \longrightarrow •~~~~

START · END Lorient, Bretagne december 2020 september 2022

Lisboa september 2022

Dakar august 2022

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RESEARCH APPROACHES & FOCUS

OCEAN STREAMS

How climate change is impacting ocean currents and the microbiome distribution?

1 • Chilean coasts : oxygen depleted area

2 · Guyane - Amazone : influence of Amazon river's outputs on the link between the South and North Atlantic

3 • Weddell Sea : one of the key ocean & climate area with the major drawdown of surface waters

4 · Chili and Africa : upwellings areas of rich deep ocean waters driving the most productive fisheries on earth and the biological carbon pump



How watersheds use and pollution such as agriculture or microplastic pollution alter the microbiome structure and function ?

5 • Chilean Coasts : influence of the melting glaciers on salinity and local microbiomes

6 · Great rivers : (Amazone, Orange, Congo, Ogooué, Volta, Senegal) with great influence on local oceans

program



SMALL SCALE FEATURES How small scale ocean features alter the ocean microbiome models at large scale ?

studio.v2

7 • Atlantic Ocean : understand how the microbiome is modified by small gyres?