



argo
2030

Deep-Argo

Motivations, status, scientific results, strategy (France).

Présenté par Damien Desbruyères

Préparé avec Virginie Thierry.

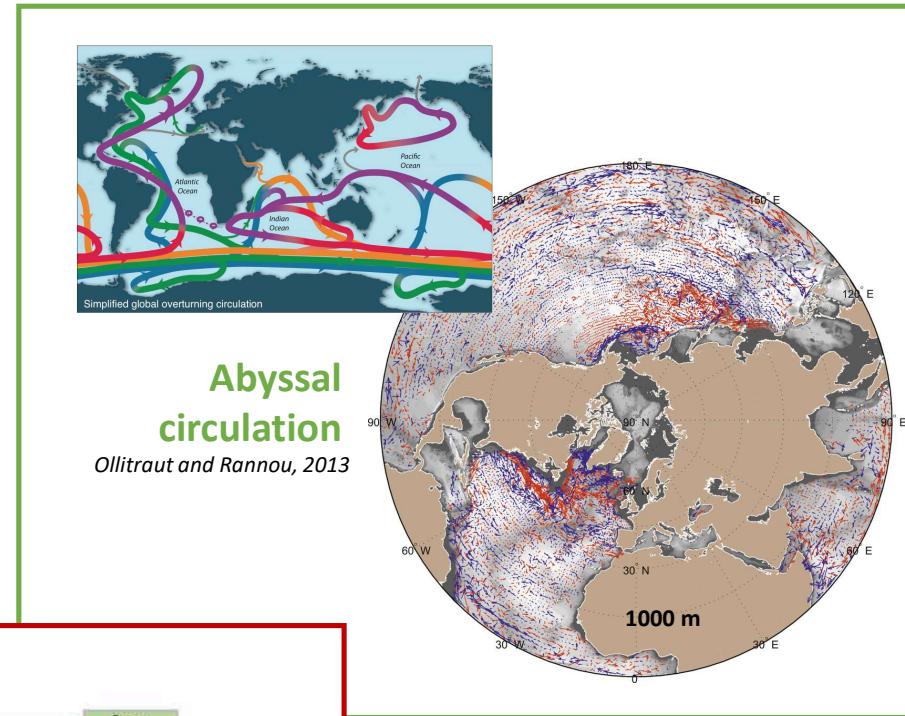
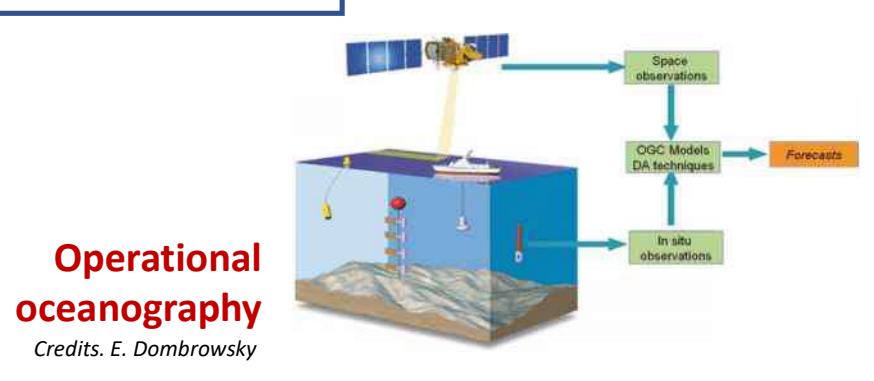
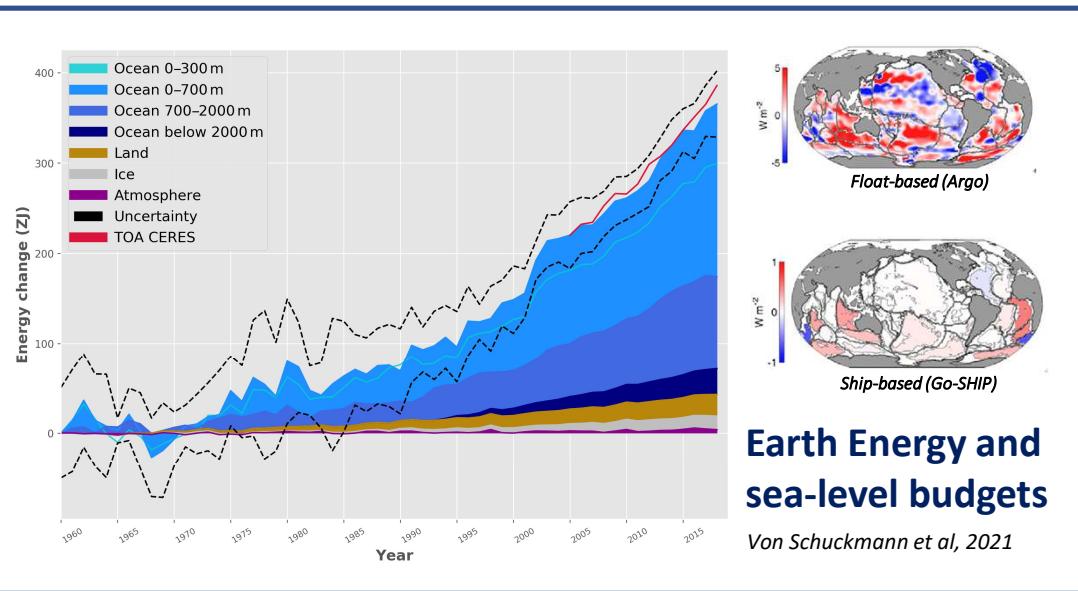
Laboratoire d'Océanographie Physique et Spatiale (LOPS)

Brest, le 29 septembre 2022



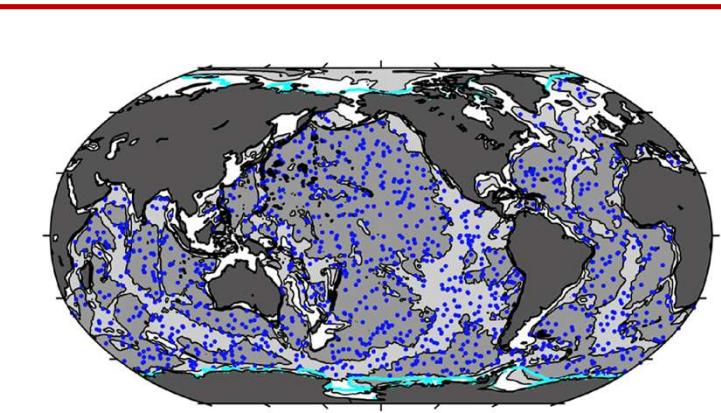
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The need for Deep-Argo



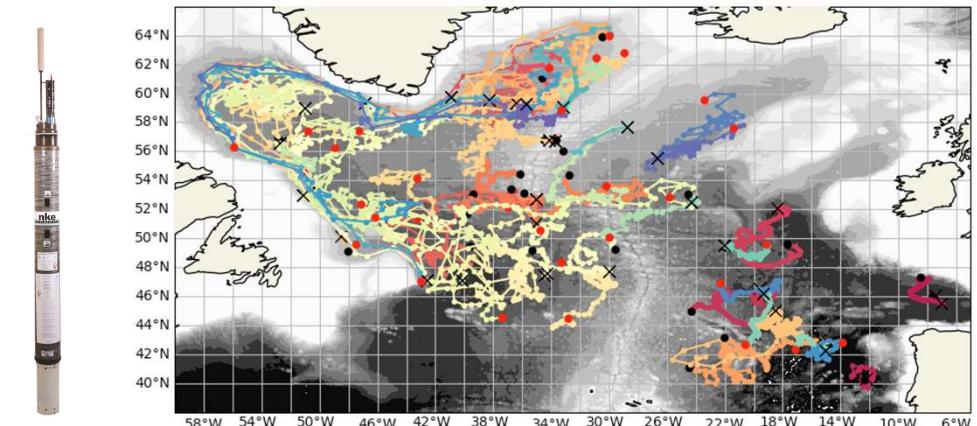
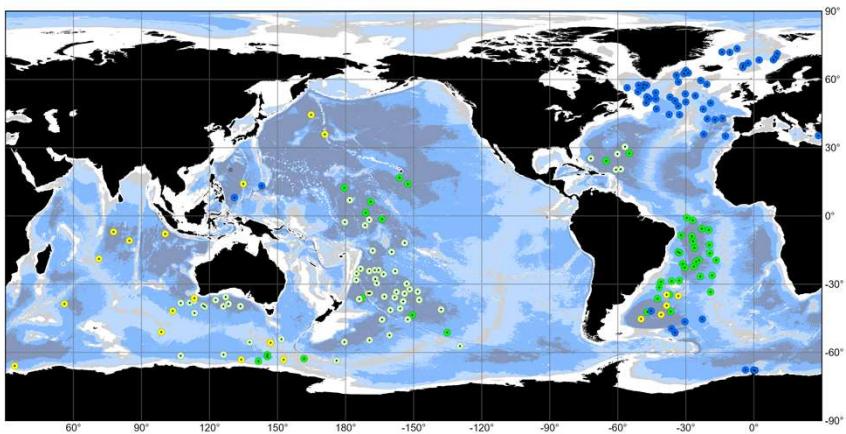
Implementing Deep-Argo

180 operational Deep Argo floats
as of today (50% 0–6000 m fleet)



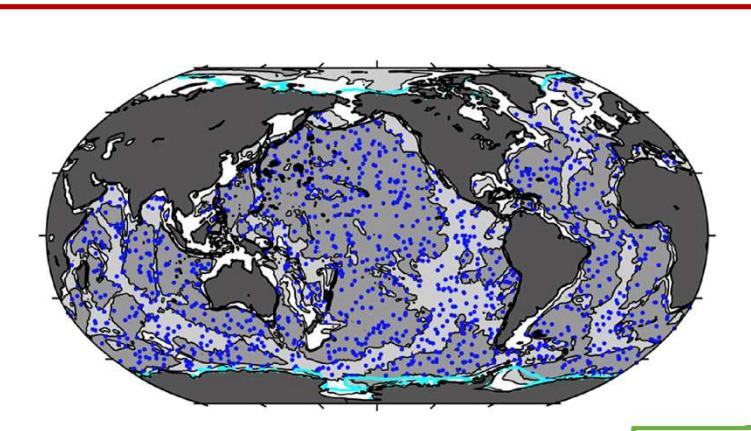
Deep-Argo straw plan
1200 floats
Johnson et al (2015)

A significant France-EU activity in the Subpolar North Atlantic



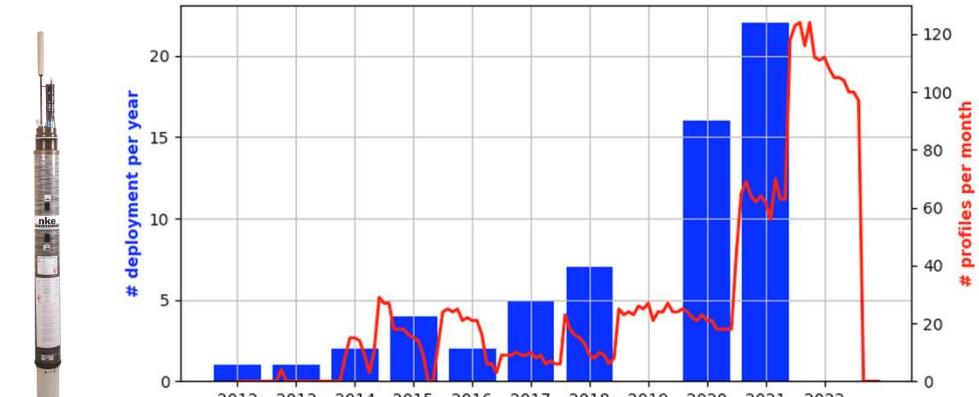
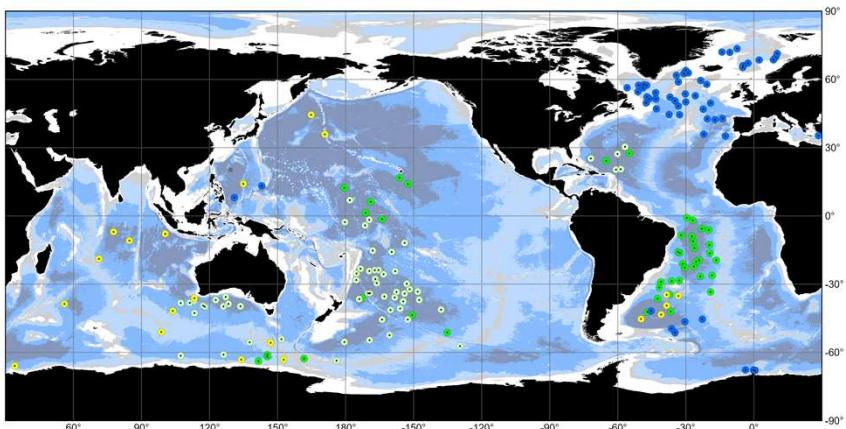
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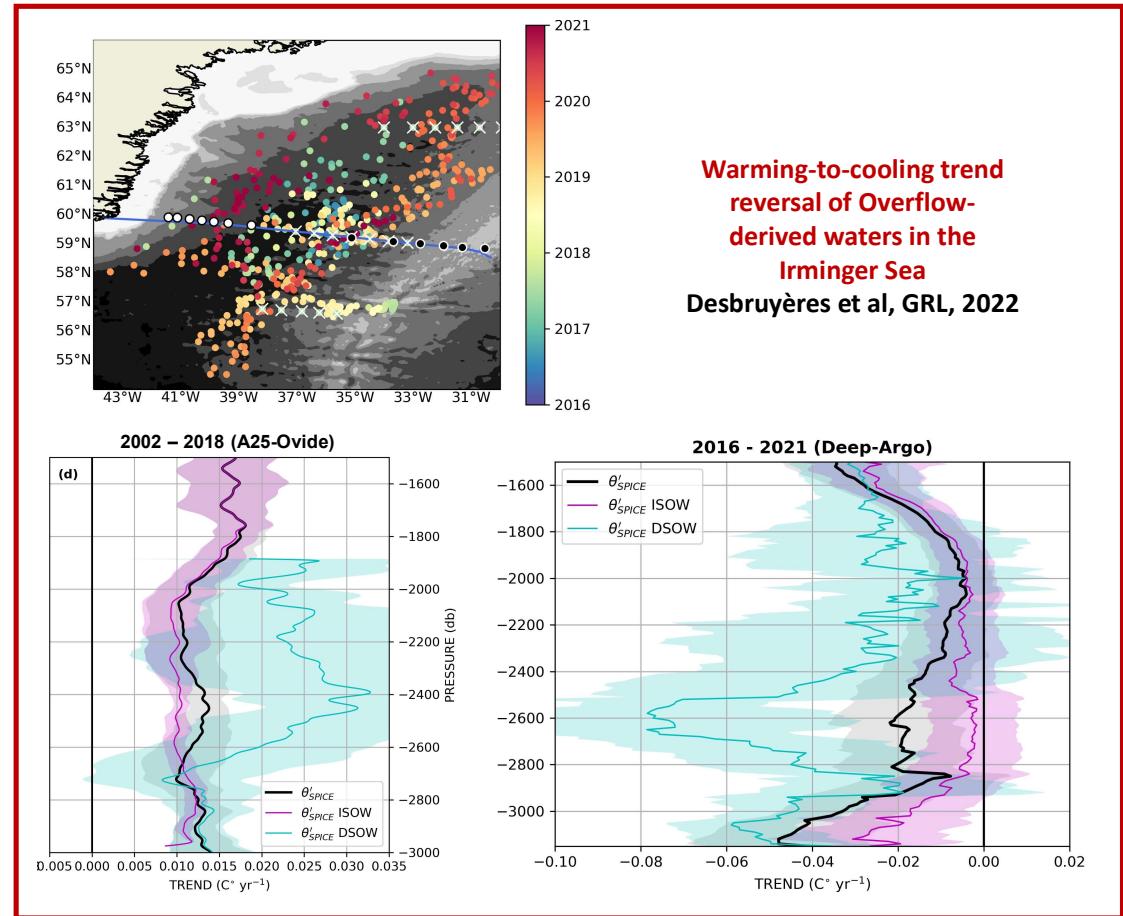
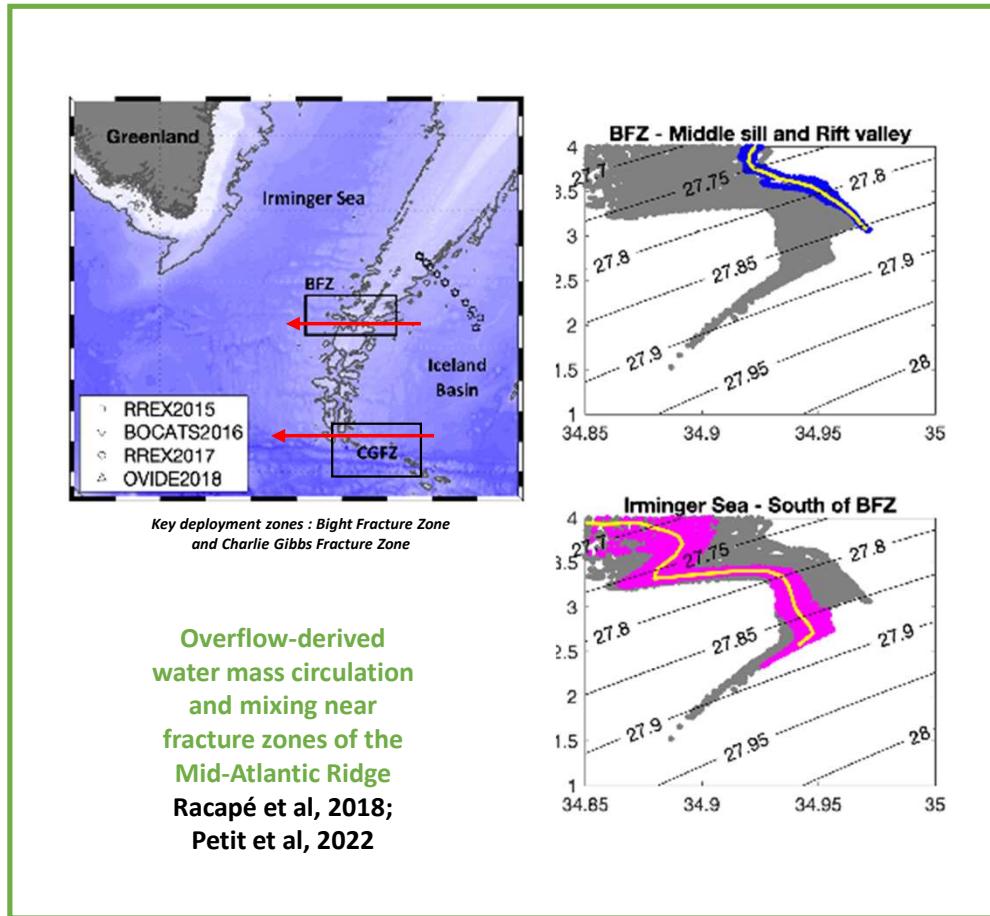
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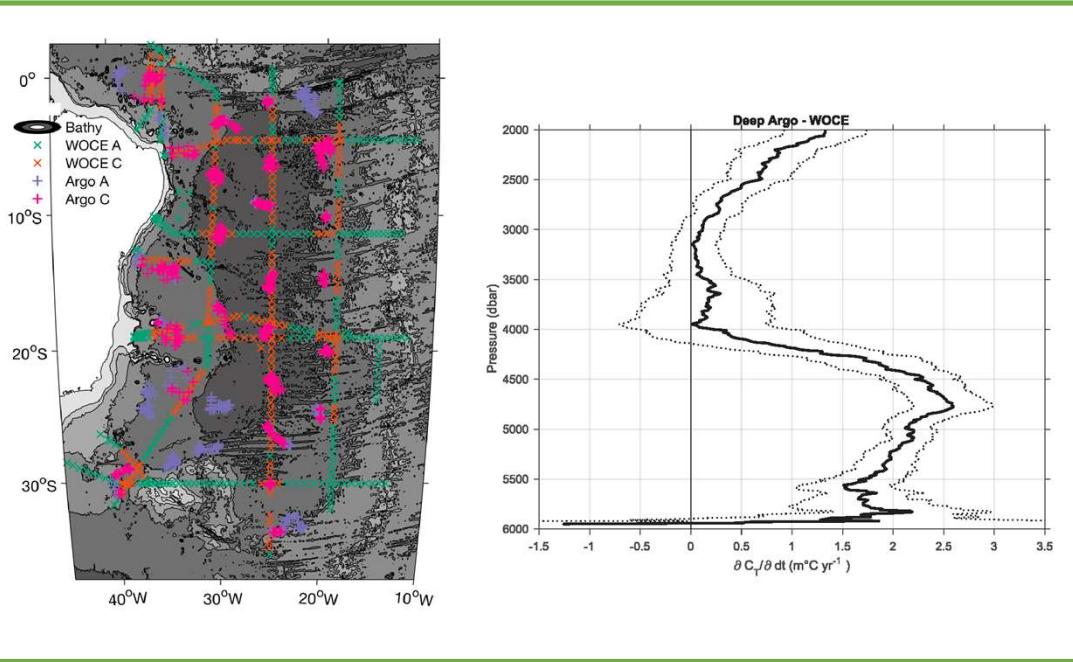


The Deep-Arvor 4000 (73 deployed by France so far)

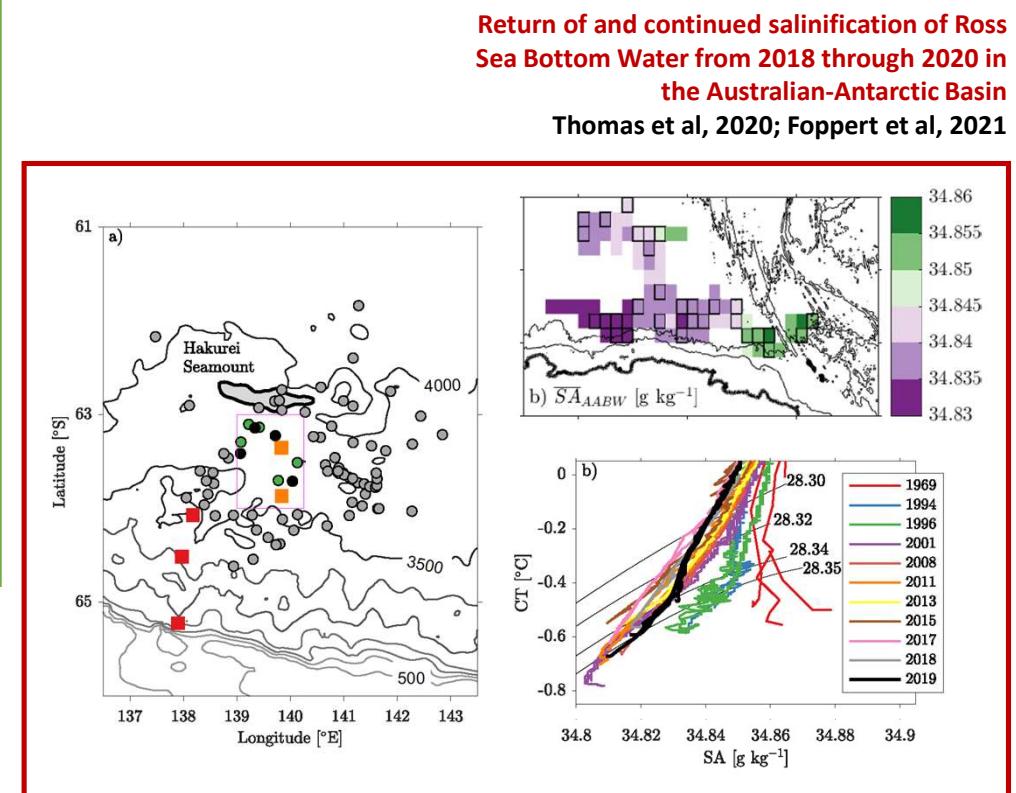
| Key findings with the Deep-Arvor 4000



| Key findings with other Deep-Argo floats

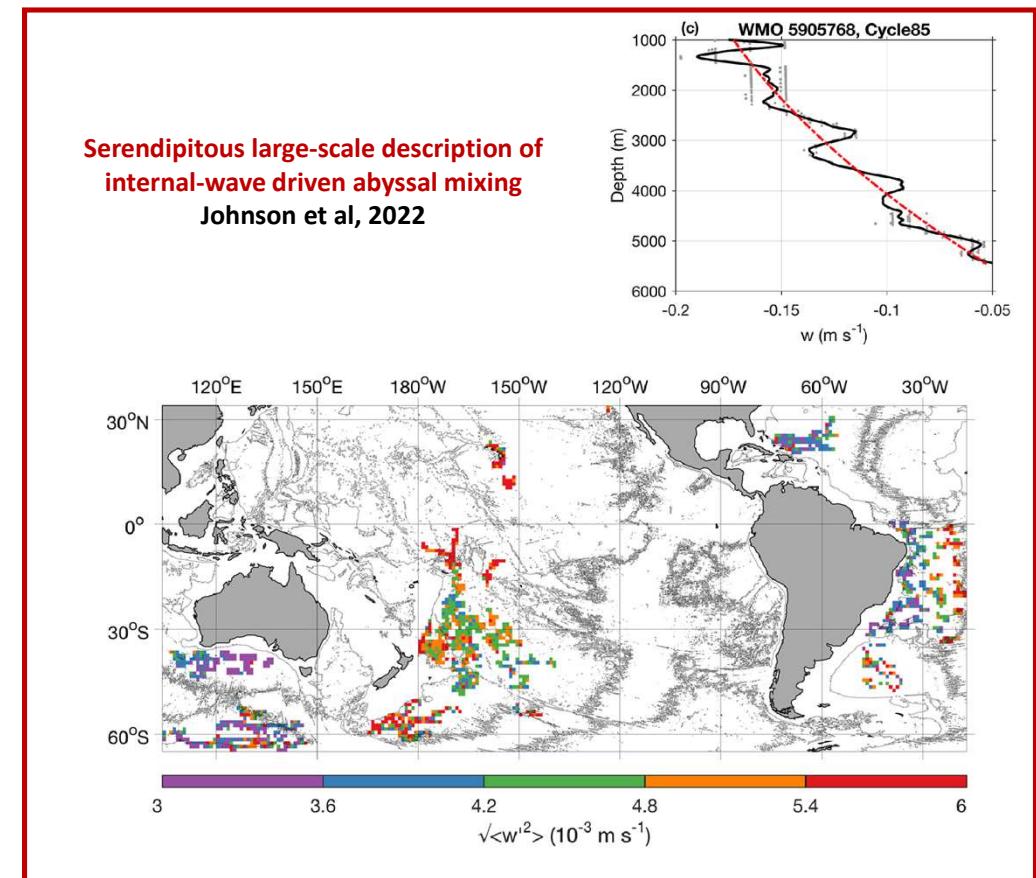
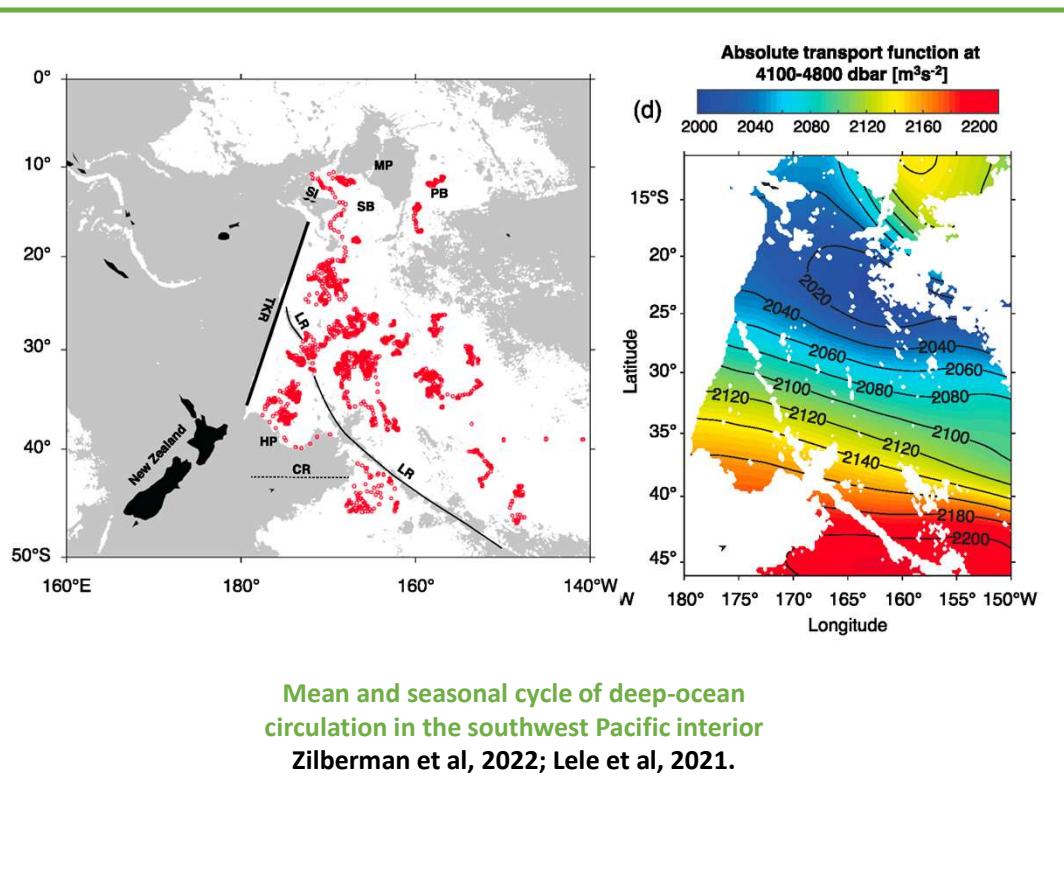


Warming of Antarctic Bottom in the Southwest Pacific Basin and the Brazil Basin
Johnson et al, 2019, 2020, 2022.



Return of and continued salinification of Ross Sea Bottom Water from 2018 through 2020 in the Australian-Antarctic Basin
Thomas et al, 2020; Foppert et al, 2021

| Key findings with other Deep-Argo floats



I Projets structurants

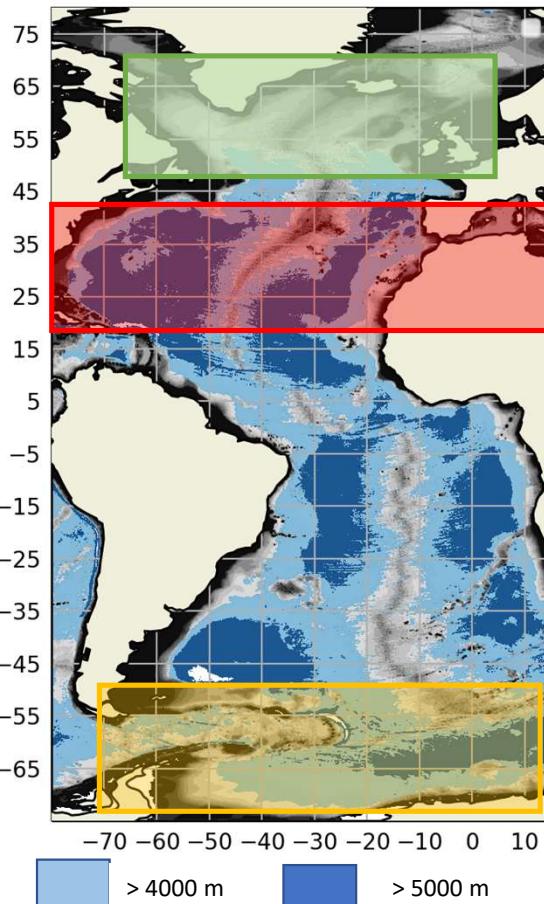


Acquisition de 12-15 flotteurs
Deep-4000/an
(2022-2027)

Développement flotteurs
Deep-6000

Acquisition et déploiement de
22 flotteurs Deep-6000

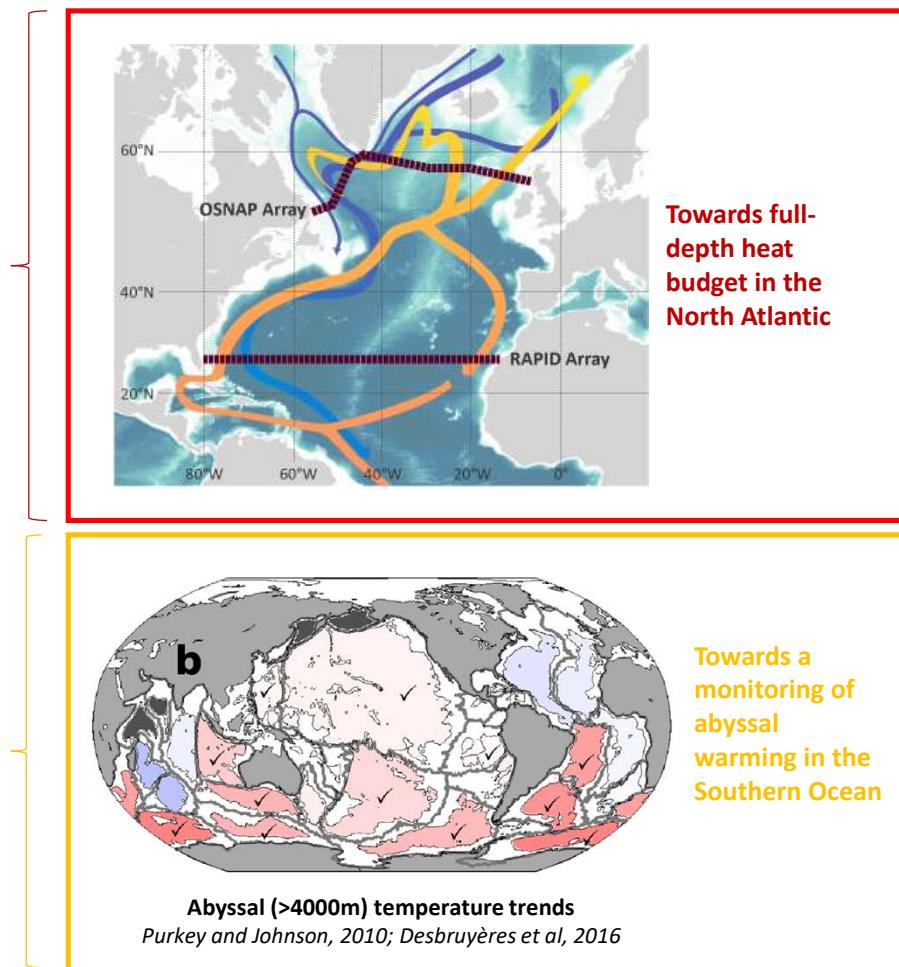
I Key targets with the Deep-Arvor 6000 (Argo 2030)



Deep-Arvor 4000 array in the subpolar North Atlantic (on going)

Deep-Arvor 6000 array in the subtropical North Atlantic

Deep-Arvor 6000 array in the subantarctic Atlantic or Indian oceans





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Merci pour votre attention.

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