

Annual Meeting Inria Paris, 23 February 2024



OcéanIA: Three big questions



Addressing OcéanIA's questions



The team



The OcéanIA scientific committee



Project organization and progress: a two-phase "map/reduce" approach

- "Strategic entropy."
- Grasp and experiment addressing different specific problems.
- Diversity in data, knowledge, methods, and principles.





Next phase: converge and compose methods to yield more sophisticated answers.

Source: J. Himmelfarb (artist G. Renee Guzlas).

Lessons learned

Results

- Challenging problems lead to improvements in state of the art.
- Solid results in each direction.
- Creating a community: workshops in top venues (new one just accepted).
- Identified connections and spill-overs.

Difficulties

- Hard to convert results into papers (topic for discussion).
- Hiring and team stability a big hurdle:
 - has uneven progress in the different lines,
 - hard to carry results across the finish line, but
 - problem shared by all academia.

Today's program

- 09:00 Welcome coffee.
- 09:30 Intro by J-F Gerbeau.
- 09:40 Status and program.
- 10:00 0.Bernard: Temperature and light on phytoplankton growths.
- 10:30 R.Ranini: Spatio-temporal models of particulate organic matter in the ocean.
- 11:00 A.Maass: CEODOS mission.
- 11:30 Sebag et al.: Plankton images.
- 12:00 P.Peterlongo (invited): Defí OmicsFinder.
- 12:30 L.Thiry: Simulation of large-scale ocean models

13:30 Lunch at Le Repaire (100 Av. Daumesnil 75012)

- 15:00 F.Lombard, J-O. Irisson, LOV (invited): Ecotaxa project
- 15:30 P.Marquet: A general theory for temperature dependence in biology.
- 16:00 L.Valenzuela: Modeling plankton communities.
- 16:30 Pause coffee
- 16:45 L.Martí: MOPINNs.
- 17:10 Discussion of next steps.

Before we start...

- Please, stick to your time and leave at least 10 minutes for discussion.
- We are being impacted by weather, strikes, protests, as all OcéanIA meeting, we might need to adapt during the day.
- Share ideas, even if we can't discuss now we can organize visio calls.
- How can we maximize impact and answer key questions?
- How can we boost collaboration?
- What other activities can we organize? i.e. special issues on journals, outreach, etc.

Enjoy!

0 0 Inría Merci ! ¡Gracias! Thank you!

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Questions?