





# **EMODnet Biology annual meeting**

# ULiège status update

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# What's our initial goal?





- 1. Allow users to directly call DIVAnd (Julia code) from a R session
- 2. Generate presence density maps with DIVAnd (called from R)
- 3. Compare results obtained with different methods

What's our initial goal?



# **Technical aspect**

Documentation
Testing
Compatibility issues
Creation of a new library

# Scientific aspect

Providing a new tool to community Application to real datasets Comparison with existing methods

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#### What has been done so far?



# • https://github.com/gher-uliege/EMODnet-Biology-PhaseV

- √ Create and improve the documentation of the installation procedure (README.md)
- ✓ Test installation under Windows (✓ working) and Linux (✗ failing) using Conda
   (✗ also failing)
- ✓ Perform simple 1D and 2D interpolations with DIVAnd in R
- ✓ Perform density map from observations (turtles) with DIVAnd in R

What has been done so far?



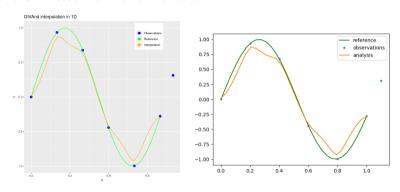
**Under development** (with Salvador Fernández, VLIZ): create a R package for DIVAnd

(to hide all the dirty stuff from users)

#### What has been done so far?



## Results for the 1D test with R and with Julia



(spoiler: they are the same)

# What are the next steps?



# Technical aspect:

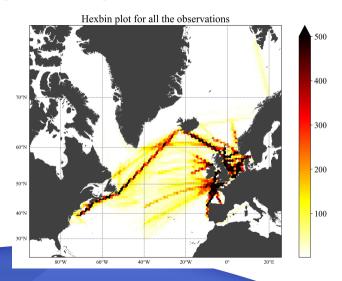
- 1. fix library issues (if possible)
- 2. finish writing R module

# Scientific aspect:

- Apply method on birds data: European Seabirds At Sea (ESAS) https://www.vliz.be/en/imis?module=dataset&dasid=3117
- 4. Compare DIVAnd with other method(s)

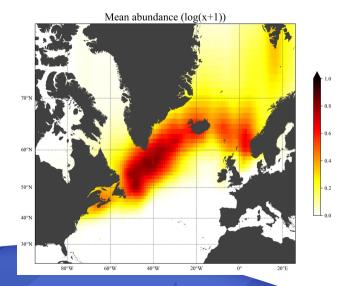
# Side project: gridding of CPR data using a neural network





# Side project: gridding of CPR data using a neural network





Side project: gridding of CPR data using a neural network

More details: IMDIS conference









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