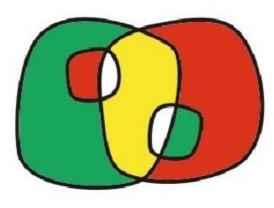
Three-dimensional Modelling of Phytoplankton and Zooplankton Seasonal Distribution in the Iberian Upwelling System



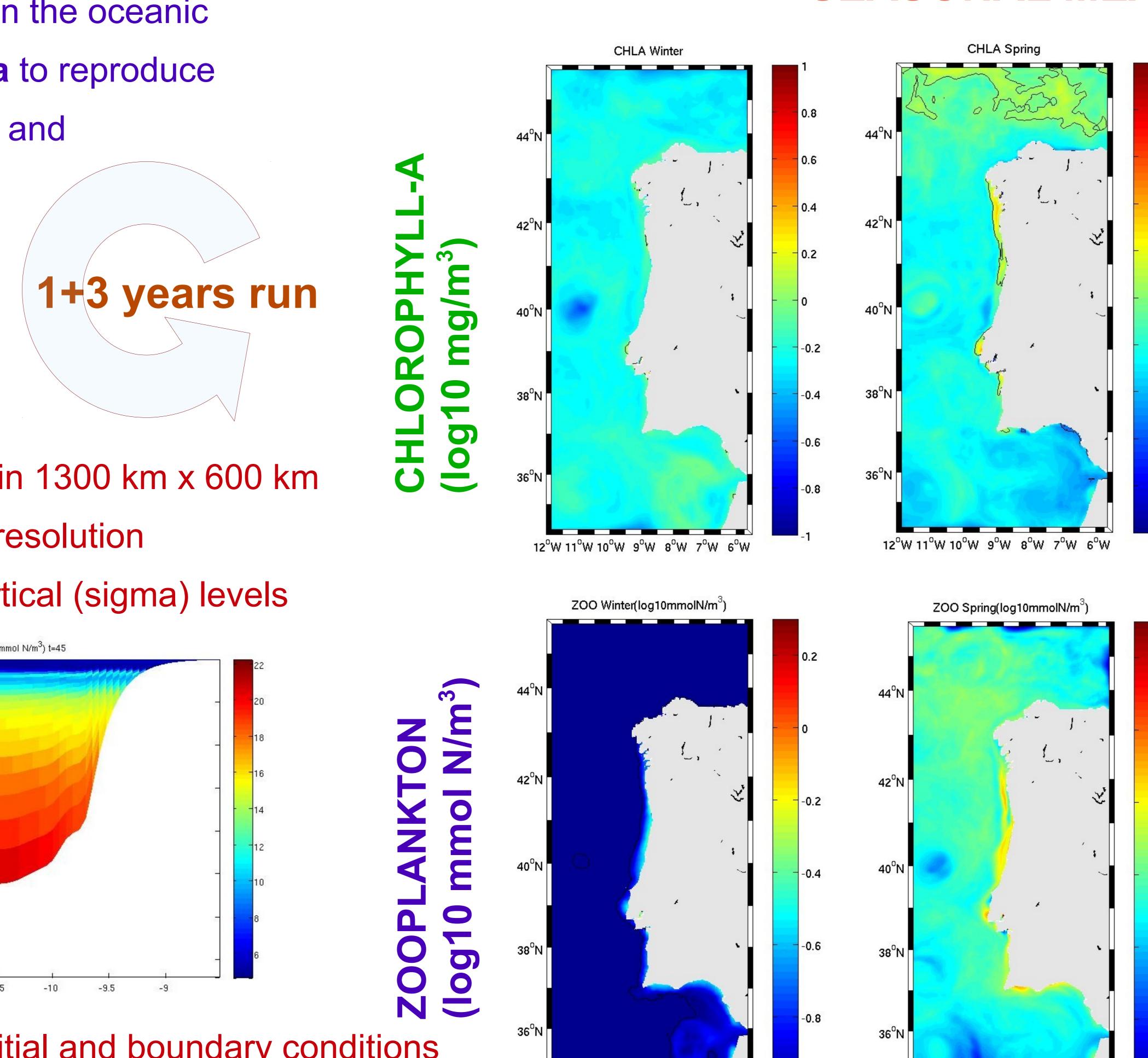




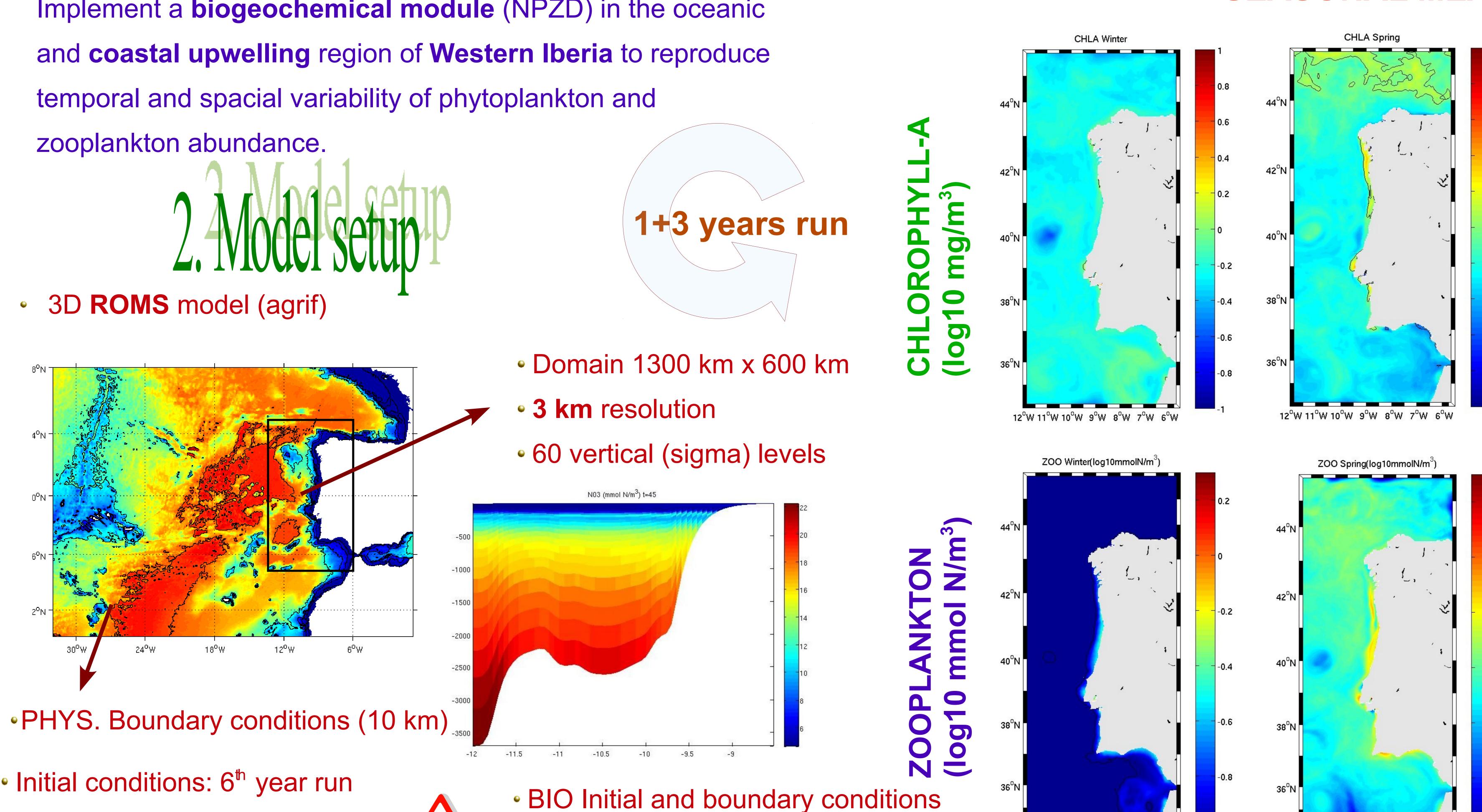


Implement a biogeochemical module (NPZD) in the oceanic and coastal upwelling region of Western Iberia to reproduce temporal and spacial variability of phytoplankton and zooplankton abundance.





12°W 11°W 10°W 9°W 8°W 7°W 6°W



- Initial conditions: 6th year run
- Climatological (COADS) forcing



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12⁰W

6⁰W

Climatology (WOA/SeaWiFS) 3 climatological rivers (Minho, Douro and Tagus)

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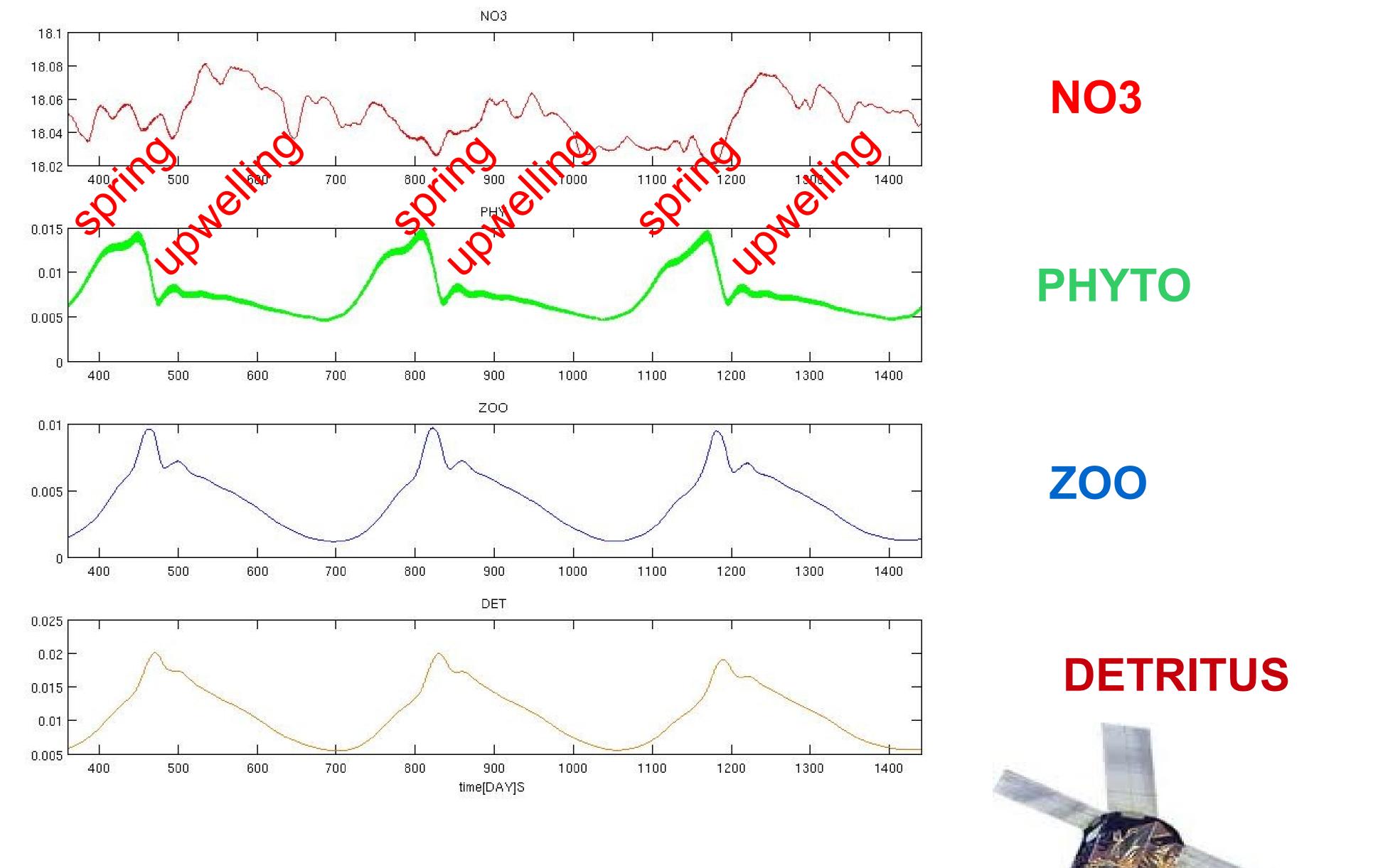
> The seasonal trend was reproduced. Quantitative comparissons need to be improved

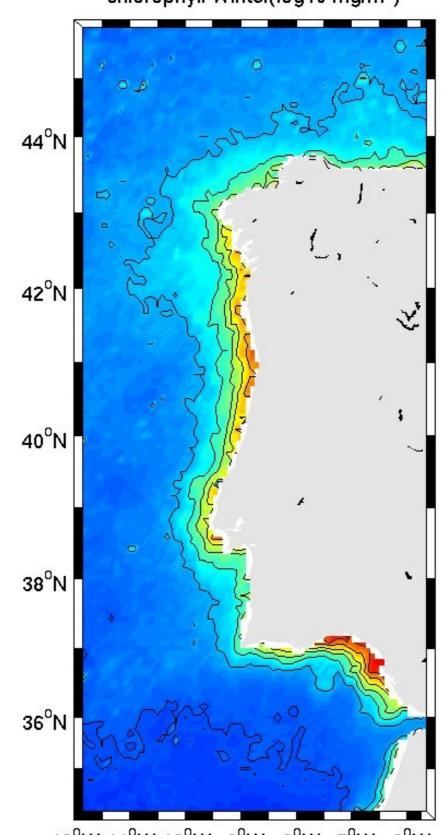
12°W 11°W 10°W 9°W 8°W 7°W 6°W

SEASONAL MEAN 3 YEARS (LOG10) CHLA Summer 12°W 11°W 10°W 9°W 8°W 7°W 6°W 12°W 11°W 10°W 9°W 8°W 7°W 6°W ZOO Summer(log10mmolN/m³) ZOO Autumn(log10mmolN/m³)

12°W 11°W 10°W 9°W 8°W 7°W 6°W

12°W 11°W 10°W 9°W 8°W 7°W 6°W





12°W 11°W 10°W 9°W 8°W 7°W 6°W

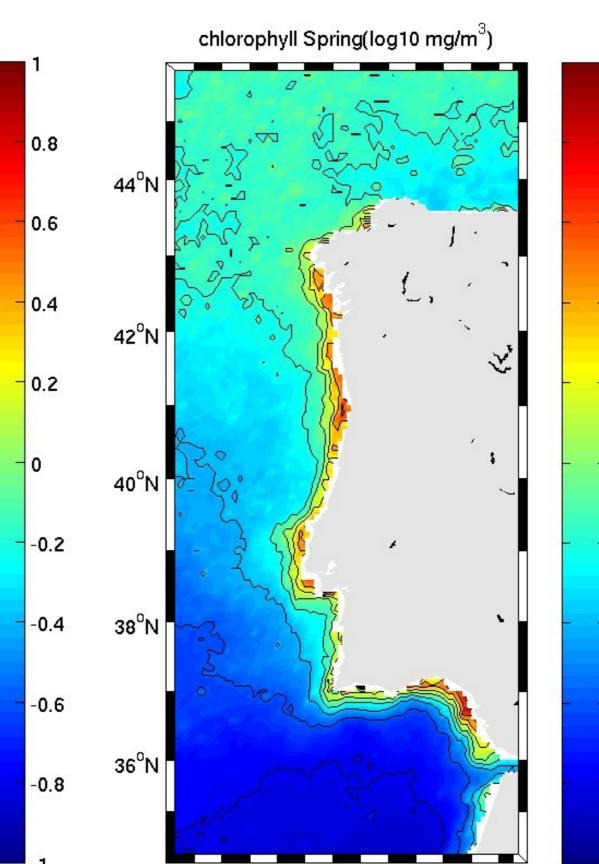




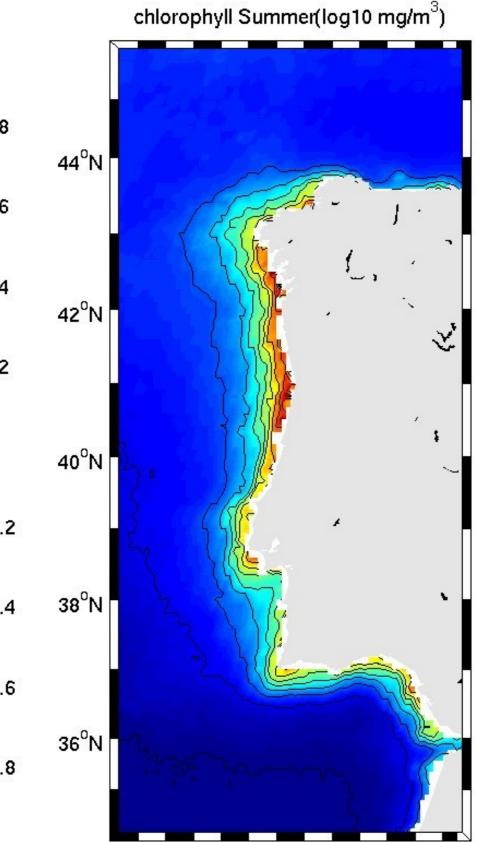
Cont@ct: rosa.reboreda@ua.pt

SEASONAL EVOLUTION

CHL-A CLIMATOLOGY - SeaWiFS



12°W 11°W 10°W 9°W 8°W 7°W 6°W



12°W 11°W 10°W 9°W 8°W 7°W 6°W

