

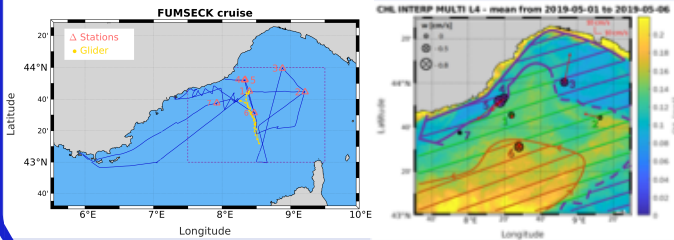


# Fine-Scale dynamics and coupling with biogeochemistry - FUMSECK cruise

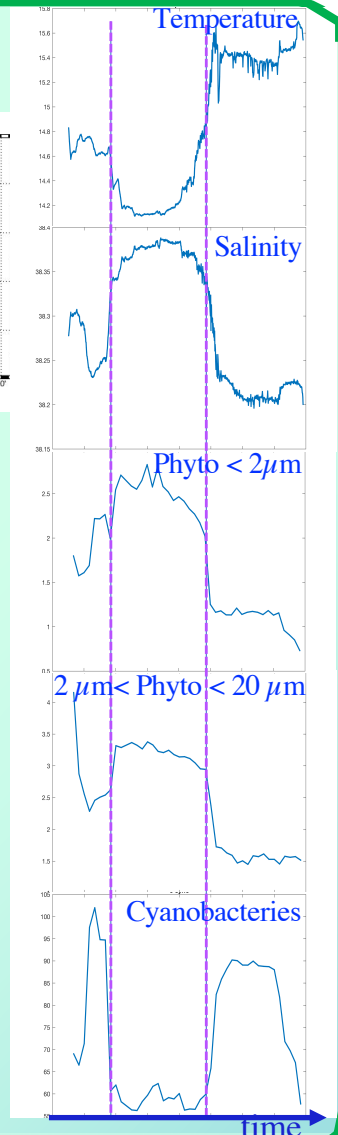
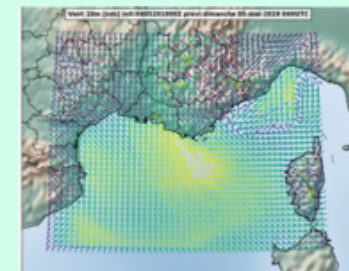
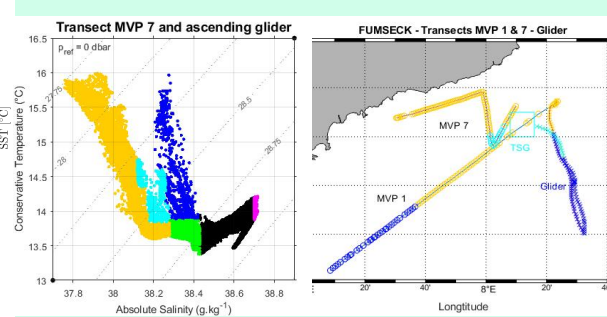
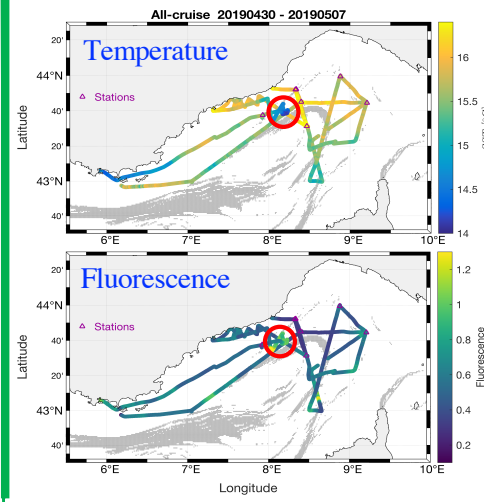
S. Barrillon, C. Comby, J.-L. Fuda, A. A. Petrenko, M. Thyssen, G. Gregori, A. Bosse, R. Tzortzis, N. Bhairy, F. Cyr, H. Bataille, F. d'Ovidio, C. Yohia, and A. A. Doglioli

## FUMSECK cruise

- May 2019, Ligurian Sea
- SWOT preparation
- Fine scales innovations
  - Vertical velocities
  - Phys – Bio coupling

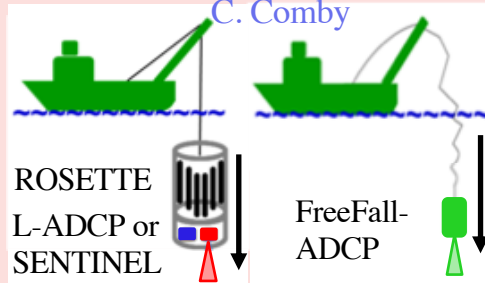


## Physics-Biogeochemistry coupling



## Vertical velocities

- Direct with ADCP



- VVP  
J.-L. Fuda

- $\rightarrow \lesssim 10^{-3} \text{ cm.s}^{-1} \pm O(10^{-2}) \text{ cm.s}^{-1}$

- Impulsional event, localised, post storm
- With particular biogeochemistry

## Conclusion

- Methodological / instrumental fine-scale development
- Preparation for SWOT
- Physics/Biology coupling event