

# Charles Troupin

Engineer in Physics – PhD in Sciences (Oceanography)

## ① – Contact data & networking

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## ② – Experience & projects

### Summary

Since 2006, I have been involved in several internal, national and European projects dealing with data analysis and management, operational oceanography or numerical modelling. For most of the projects, my contributions consists of inputs to the project proposals, preparation of the deliverables, support to users through manual writing and training workshop organisation, and participation to the meetings of the technical task group and steering committees.

**2017/01–present** | **Senior researcher** | GeoHydrodynamics and Environment Research ([GHER](#)), University of Liège

European projects:

**2024–2028** [IRISCC](#) (Integrated Research Infrastructure Services for Climate Change Risks)

**2024–2028** [Aquarius](#)

**2024–2028** [LandSeaLot](#) (HORIZON)

Gap-filling in the land-sea interface.

**2023** [iCPR](#)

Creation of gridded field of plankton species using a neural network method.

Application of

**2022–2025** [FAIR-EASE](#)

Deployment of an interpolation tool in a virtual research environment

**2019–2023** [BlueCloud](#) (H2020)

Analysis of Continuous Plankton Recorder data and deployment of DIVAnd interpolation tool in a Virtual Research Environment (VRE).

Participation to webinars and support to the VRE users.

**2019–2022** [PHIDIAS](#) (CEF Telecom)

Deployment and testing of DIVAnd tool in a HPC environment (JupyterHub, Singularity).

Optimisation of data reading and writing (netCDF).

Contributions to outreach activities (podcast, flyers, webpage).

**2019–2021** [EMODnet Physics](#): Creation of velocity maps by interpolating drifter and high-frequency radar measurements.

**2018–ongoing** [EOSC-Hub](#): Development of a data analytics platform for marine data.

**2017–ongoing** [EMODnet Biology](#): Creation of gridded fields based on species counts and observations.

**2017–ongoing** [EMODnet Chemistry](#)

Creation of gridded field for chemical variables.

Visualisation of the products using the OceanBrowser tool.

Preparation of merged products combining all the regional components.

Generation of XML records for the data catalog.

**2017–ongoing** [EMODnet Data Ingestion](#): Development on new gridded products using the data obtained in the frame of the project.

**2017–ongoing** [SeaDataCloud](#) (H2020): Further developing the pan-European infrastructure for marine and ocean data management

Improvement and testing of the DIVAnd software tool.  
Development of a user interface for Diva on a Virtual Research Environment.  
Preparation of the new regional climatologies.

National projects:

**2019–2021** [Multisync](#): combination of satellites measurements at different resolutions to reconstruct suspended particular matter in the North Sea.

**2014/03–2017/01** | **Head of Data Centre** | Balearic Islands Coastal Ocean Observing and Forecasting System ([SOCIB](#))

General tasks:

Management of the projects and staff.  
Relations with external users (national and European), data providers and other facilities.  
Development of applications for the access and visualisation of oceanographic data.  
Forecasting of extreme sea level events (*rissaga*) using time series.  
Acquisition and processing of satellite, remote-sensing data (wind, salinity sea surface temperature, chlorophyll concentration).  
Analysis and interpretation of multi-platform observations (High-frequency radar, satellite, stations, mobile platforms).

European projects:

**2015–2017** [JERICO-NEXT](#) (H2020): Data management best practices; glider data processing and calibration.

**2015–2017** [ODIP 2](#) (H2020): (Ocean Data Interoperability portal)

Analysis of software citation tools.  
Test of new standards in data and metadata management .  
Data visualisation tools.

**2015–2017** Copernicus Marine Environment Monitoring Service, In Situ Thematic Assembly Center (INSTAC):

Elaboration of the Ocean State Report.  
Coordinator of the outreach, training and communication activities.  
Preparation and participation to the regional user training workshops.

National projects:

**2014–2017** BlueFin Tuna: combination of observations and models to understand and predict tuna abundance.

**2014–2017** Grumers: Database for jellyfish observations around the Balearic Islands.

**2014–2017** [Medcllic](#) (Oceanographic data in the Mediranean Sea at one click): Providing access to SOCIB sensors data.

**2014–2015** SeaTurtle: Development of a viewer showing turtle trajectories in real-time.

**2013/03–2014/03** | **Post-doctoral researcher** | Mediterranean Institute for Advanced Studies ([IMEDEA](#))

European projects:

**2013–2014** MyOcean 2, Ocean monitoring and forecasting infrastructure:

Preparation of high-resolution altimetry products in the Mediterranean Sea (MyOcean 2 project).  
Analysis of in situ and remote-sensed data in the Balearic Sea.

**2011–2015** PERSEUS (Policy-oriented marine Environmental Research for the Southern European Seas)

Processing (interpolation, filtering) and interpretation of multi-sensor measurements (High-frequency radar, underwater glider, altimeter).  
Operational production of regional altimetry maps (satellite imagery).

**2010/10–2013/02** | **Research assistant** | [University of Liège](#)

Supervisor of the laboratory "Microscopes" for undergraduate students (laboratory sessions for 60-80 students, evaluation).  
Analysis of total-suspended matter images on the North Sea.  
Spatio-temporal interpolation of satellite wind data.

Improvement and testing of DIVA interpolation software tool.

National projects:

**2011–2013** HiSea (High-resolution merged satellite Sea surface temperature fields): EOF analysis of satellite images improved with numerical model outputs.

**2006/10–2010/09** | **PhD Candidate** | Fund for Research Training in Industry and Agriculture ([National Fund for Scientific Research](#), Belgium), GeoHydrodynamics and Environment Research ([GHER](#), University of Liège)

Projects:

**2012–2013** [ODIP](#) (FP7): Establishing and operating an Ocean Data Interoperability Platform

Definition of standards for the data and metadata exchange.

**2009–2013** [EMODnet – Chemistry](#): Pilot component for a final operational European Marine Observation and Data Network:

Improvement to the DIVA tool.

Development of the DIVA web-interface.

**2009–2013** [SeaDataNet 2](#): Infrastructure for ocean and marine data exchange.

User training

Software development and testing

**2008–2009** CAIBEX (Study of the Exchanges between continental shelf and ocean in the Canaries-Iberian marine ecosystem):

Study of the upwelling filament off Cape Ghir (Northwest Africa).

Hydrographic climatology for the North-East Atlantic Ocean.

Implementation of the ROMS model at high-resolution around Cape Ghir and design of process-oriented experiments.

Participation to the CAIBEX cruise onboard *Sarmiento de Gamboa* (summer 2009) off Cape Ghir and processing of the cruise data.

**2006–2011** [SeaDataNet](#): Infrastructure for ocean and marine data exchange:

Contribution to the project proposal.

Development, documentation and testing of DIVA software tool.

Organization of the user training workshops.

**2010/08–2010/09** | **Trainee** | NATO Undersea Research Center, La Spezia (Italy)

**2010/08** REP10 (Recognized Environmental Picture): Analysis and reconstruction of incomplete satellite images on the Ligurian Sea.

Development of an operational, multivariate processing for the reconstruction of incomplete satellite images.

Pre-processing of remote-sensed data (chlorophyll concentration, sea surface temperature).

**2005/10–2005/12** | **Research Engineer** | University of Liège

Modeling of Coccolithophore blooms in the Bay of Biscay using a 1-dimensional model (GOTM)

### ③ – Main research interests

Data visualisation in environmental sciences

Spatial interpolation techniques applied to geophysical data

Processing and analysis of satellite images

High-resolution numerical modelling in coastal areas

Air-sea interactions and influence of physical processes on biology

## ④ – Education

**2006–2011 | PhD in Sciences – Oceanography** | University of Liège and University of Las Palmas de Gran Canaria: *Study of the Cape Ghir upwelling filament using variational data analysis and regional numerical model*

👤 Supervisors: J.-M. Beckers and P. Sangrà

📅 Lecture date: 15 September 2011

🔗 <http://hdl.handle.net/2268/105400>

**2005–2006 | Advanced Master in Modelling of the Marine Environment** | University of Liège and University of Las Palmas de Gran Canaria

Final project: *Simulation of annual cycles of phytoplankton, zooplankton and nutrients using a mixed layer model coupled with a biological model*

👤 Supervisor: P. Sangrà

🔗 <http://hdl.handle.net/2268/112587>

**2000–2005 | Civil Engineer in Physics** | University of Liège

Final project: *Structuring in granular media*

👤 Supervisors: P.C. Dauby and N. Vandewalle (ULg)

🔗 <http://hdl.handle.net/2268/112588>

### 4.1 – Training

**2019/11/29** Professional software dedicated to research, ULiège (3h), J. Fays, R. Hoyoux

**2019/11/29** Software development strategy, ULiège (3h), J. Fays

**2018/01/21** Managing an international research team, ULiège (3h), I. Halleux

**2016/07** [Big Data: Data Visualisation](#), 2 weeks / 2 hours per week, Queensland University of Technology

**2016/06** [SQL: Table Transformation](#), Code Academy

**2016/06** [Learn SQL](#), Code Academy

**2016/01** [Tropical Mesoscale Convective Systems](#), 1.5 hour, Comet MedEd

**2016/01** [Using Scatterometer Wind and Altimeter Wave Estimates in Marine Forecasting](#), 2 hours, Comet MedEd

**2015/12** [Monitoring Climate from Space](#), 5 weeks / 3 hours per week, European Space Agency

**December 2015** [Google's Python Class](#), 2 days, Google for Education

**2012/11/06** Interview in English, Gembloux (1 day), J.-P. Hermann

**2012/10/26** Understanding the factors of success and failure in the first year of university, ULg (1/2 day), L. Leduc and B. Mérenne

**2012/10/24** Keys and main principles of team management, ULg (1/2 day), L. Maréchal

**2012/05/10** Efficient slides and graphics, ULg (2h), J.-L. Doumont (Principiæ)

**2011** Structuring written documents, ULg (2h), J.-L. Doumont (Principiæ)

## ⑤ – Skills and Competencies

### 5.1 – Technical skills

**Data analytics** Quality control, Time series analysis, Singular events, Filtering, Data mining, Statistics, Predictive modelling

**Engineering** Fluid mechanics, Aerodynamics, Finite-Element Method, Atmospheric Physics, Numerical simulations, Numerical analysis, Signal processing, Optimization, High-performance computing

**Physical Oceanography** Spatial interpolation, Time-Series Analysis, Principal Component Analysis, Process-oriented modelling, Database Management, Satellite Image Processing

### 5.2 – Soft skills & management

**Projects and management** Planning and monitoring, scientific and technical reports, teamwork, deadline-conscious, specification documents, applications for grants and supports.

#### Communication

Oral presentations at international conferences (in English, Spanish or French).

Social networking (outreach) and management of group accounts on twitter (@GHER\_ULiege, @SOCIB\_data [discontinued]).

Design of conference flyers.

#### Conference organisation

Main organiser of several editions of the user training workshop for DIVA (participants from European research centres on average).

Member of the organising committee of the 48th International Liège Colloquium on Ocean Dynamics (200 participants from 40 countries).

Member of the scientific committee of several conferences.

### 5.3 – Languages

#### Summary

English for the communication with the project partners and for the writing of technical document. Spanish, English and Catalan in the previous working environments.

**French** Native speaker

**Spanish** Highly proficient (speaking and writing)

**English** Highly proficient (speaking and writing)

**Catalan** Limited working proficiency

**German** Limited working proficiency

**Italian** Elementary proficiency

**Dutch** Elementary proficiency (basic course for beginners)

### 5.4 – IT skills

#### </> Programming

Functional programming

Object oriented programming

Test-oriented development

Control version system (git, svn)

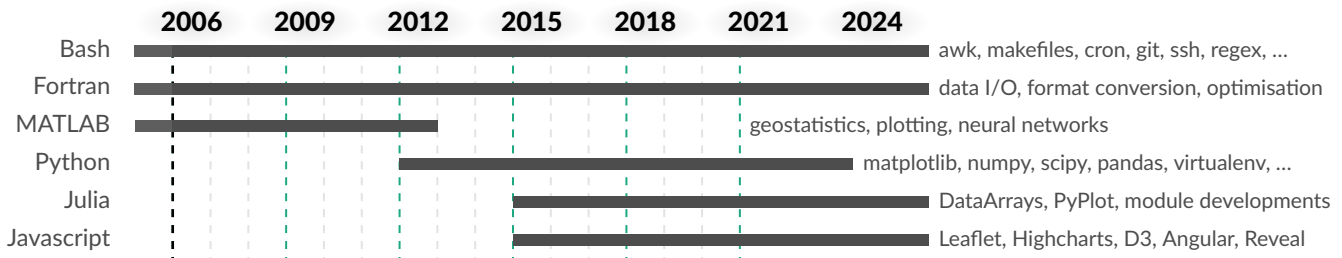
Unit testing

Continuous integration

Software citation and reproducibility

Containerisation (Docker, Singulairiy)

## </> Languages



## 🔧 Tools

**Visualisation:** bokeh, matplotlib, folium, plotly, leaflet, cartopy

**Data bases:** MySQL, PostgreSQL

**Operating systems:** Linux (Mint, Ubuntu) · Experience with Mac OS X Lion, Microsoft Windows

**Image processing:** Darktable, GIMP, Inkscape, ImageJ, ffmpeg, Hugin, ImageMagick

**Oceanography software:** Ocean Data View, DIVA (spatial interpolation), DINEOF (spatio-temporal interpolation of satellite images)

**Website:** WordPress, Jekyll

**Misc:** QGIS

## 5.5 – Teaching and Training

### Summary

My experience of training at the University is complemented by several training courses given in the frame of European projects or invited lectures.

**2019/10/28–30** *Introduction to scientific Python. Application to Oceanography*, University of Cádiz, Facultad de Ciencias del Mar y Ambientales: Graduate students, researchers and professors.

**2017/11/15–17** *Open Sea Lab Workshop*, De Serre, Antwerp: Participant coaching for the EMODnet data access and usage.

**2017/04** *Geophysical Fluid Dynamics*, University of Liège, Faculté des Sciences: Master students.

**2016/01/27–29** *Introduction to scientific Python. Application to Oceanography*, University of Cádiz, Facultad de Ciencias del Mar y Ambientales: Graduate students, researchers and professors.

**2015/12/10–11** CMEMS Regional User Training Workshop dedicated to the Atlantic European South West Shelf Ocean, Lisbon (Portugal): data and tools of the In Situ Thematic Assembly Center (INSTAC).

**2015/12/03–04** CMEMS Regional User and Training Workshop dedicated to the Mediterranean Sea, La Spezia (Italy): data and tools of the In Situ Thematic Assembly Center

Manipulation of netCDF files.

Discovery and access to data.

Use of Python and Ocean Data View to process oceanographic data.

**2010/10–2013/02** *Physics laboratory (optics)*, University of Liège, Faculty of Medicine and Faculty of Veterinary Medicine: Undergraduate students.

**2007–2013** *Physical Oceanography, Risk Management, Marine Meteorology* (assistant), University of Liège, Faculty of Sciences: Undergraduate students.

## ⑥ – Research stays

**3 September - 31 October 2018** Analysis of surface currents in the Gulf of Trieste using high-frequency radar, Marine Biology Station Piran, National Institute of Biology (NIB), Piran (Slovenia).

**5 August - 5 September 2010** Analysis of satellite images in the Ligurian Sea, NATO Undersea Research Centre (NURC), La Spezia (Italy).

**15 July 2009 - 30 September 2009** Preparation and participation to CAIBEX cruise, Las Palmas (Spain) and Cape Ghir (Morocco).

**5 January 2009 - 31 March 2009** Diagnostics on model outputs, ULPGC, Las Palmas de Gran Canaria (Spain).

**30 May - 30 August 2008** High-resolution configuration for the model, ULPGC.

**5 December 2007 - 5 March 2008** Diagnostics on model outputs, ULPGC.

**21 May - 24 August 2007** Design of process-oriented numerical experiments, ULPGC.

**5 January - 15 March 2007** Implementation of ROMS numerical model, ULPGC.

## ⑦ – Scientific contributions

### Summary

In the frame of international projects, I authored or co-authored several works published in peer-reviewed journal and mainly focused on data analysis and tools.

30+

Papers in peer-review  
journals

100 +

Presentations at  
international conferences

Reviewer for

7 journals

## 📄 Articles

- [1] P. Martin, E. Holmes, E. Mayorga, J. Ansong, U. Bhaskar, J. Cornejo-Donoso, D. Correa-Chilón, R. Damoah, D. Fierro-Arcos, L. Gómez-Navarro, N. Kumar, A. Lawal-Are, S. Maity, S. Majumder, D. Menemenlis, A. Modi, E. Nyadjro, O. Oghenechovwen, A. Oikonomou, M. Oladipo, M. Peña, D. Quaye, Y. Santana-Falcón, B. Smitha, C. Troupin, G. Vagenas, H. Villalobos, and G. Wagner, 2025. Harnessing marine open data science for ocean sustainability in africa, south asia, and latin america. *Oceanography*, 38(1). ISSN 1042-8275. [doi 10.5670/oceanog.2025.121](https://doi.org/10.5670/oceanog.2025.121). URL <https://tos.org/oceanography/article/harnessing-marine-open-data-science-for-ocean-sustainability-in-africa-south-asia-and-latin-america>.
- [2] T. J. Webb, J. Beja, S. J. F. Bejarano, E. Ramos, S. Sainz-Villegas, K. Soetaert, W. Stolte, C. Troupin, and B. Weigel, March 2025. Realising the potential of interoperable data products to improve the outlook for marine biodiversity: Lessons from the european marine observation and data network. *Marine Policy*, 173:106578. ISSN 0308-597X. [doi 10.1016/j.marpol.2024.106578](https://doi.org/10.1016/j.marpol.2024.106578). URL <https://www.sciencedirect.com/science/article/pii/S0308597X24005785>.
- [3] A. Barth, J. Brajard, A. Alvera-Azcárate, B. Mohamed, C. Troupin, and J.-M. Beckers, December 2024. Ensemble reconstruction of missing satellite data using a denoising diffusion model: application to chlorophyll a concentration in the black sea. *Ocean Science*, 20(6):1567–1584. ISSN 1812-0792. [doi 10.5194/os-20-1567-2024](https://doi.org/10.5194/os-20-1567-2024). URL <https://os.copernicus.org/articles/20/1567/2024/>.
- [4] F. Doglioni, R. Ricker, B. Rabe, A. Barth, C. Troupin, and T. Kanzow, January 2023. Sea surface height anomaly and geostrophic current velocity from altimetry measurements over the arctic ocean (2011–2020). *Earth System Science Data*, 15(1):225–263. ISSN 1866-3516. [doi 10.5194/essd-15-225-2023](https://doi.org/10.5194/essd-15-225-2023). URL <https://essd.copernicus.org/articles/15/225/2023/>.



- [5] M. Vargas-Yáñez, R. F. Sánchez-Leal, A. Alvera-Azcárate, C. Troupin, F. Moya, E. Ballesteros, M. Serra, R. Balbín, M. Vicenç, and M. C. García-Martínez, August 2023. Opportunity observation of an algerian eddy to the south of cape palos (southwestern mediterranean sea). *Scientia Marina*, 87(3):70–70. ISSN 0214-8358). doi 10.3989/scimar.05333.070. URL <https://scimar.icm.csic.es/index.php/seclid/6/IdArt/4718/>.
- [6] A. Barth, A. Alvera-Azcárate, C. Troupin, and J.-M. Beckers, 2022. DINCAE 2: multivariate convolutional neural network with error estimates to reconstruct sea surface temperature satellite and altimetry observations. *Geoscientific Model Development Discussions*, 2021:1–26. doi 10.5194/gmd-2021-353. URL <https://gmd.copernicus.org/preprints/gmd-2021-353/>.
- [7] A. Alvera-Azcárate, D. Van der Zande, A. Barth, C. Troupin, S. Martin, and J.-M. Beckers, Sep 2021. Analysis of 23 Years of Daily Cloud-Free Chlorophyll and Suspended Particulate Matter in the Greater North Sea. *Frontiers in Marine Science*, 8. ISSN 2296-7745. doi 10.3389/fmars.2021.707632. URL <http://dx.doi.org/10.3389/fmars.2021.707632>.
- [8] A. Alvera-Azcárate, D. Van der Zande, A. Barth, J. F. Cardoso dos Santos, C. Troupin, and J.-M. Beckers, Feb 2021. Detection of shadows in high spatial resolution ocean satellite data using DINEOF. *Remote Sensing of Environment*, 253:112229. ISSN 0034-4257. doi 10.1016/j.rse.2020.112229. URL <http://dx.doi.org/10.1016/j.rse.2020.112229>.
- [9] A. Barth, C. Troupin, E. Reyes, A. Alvera-Azcárate, J.-M. Beckers, and J. Tintoré, 2021. Variational interpolation of high-frequency radar surface currents using DIVAnd. *Ocean Dynamics*. doi 10.1007/s10236-020-01432-x. URL <http://hdl.handle.net/2268/253954>. In press.
- [10] M. Belgacem, K. Schroeder, A. Barth, C. Troupin, B. Pavoni, P. Raimbault, N. Garcia, M. Borghini, and J. Chiggiato, Dec 2021. Climatological distribution of dissolved inorganic nutrients in the western Mediterranean Sea (1981–2017). *Earth System Science Data*, 13(12):5915–5949. ISSN 1866-3516. doi 10.5194/essd-13-5915-2021. URL <http://dx.doi.org/10.5194/essd-13-5915-2021>.
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- [12] A. Alvera-Azcárate, C. Troupin, H. Goosse, M. J. McPhaden, and J.-M. Beckers, Dec 2020. Editorial to the Liège Colloquium Special Issue: Long-term studies in oceanography – a celebration of 50 years of science at the Liège Colloquium (1969 – 2018). *Ocean Dynamics*, 71(1):119–123. ISSN 1616-7228. doi 10.1007/s10236-020-01421-0. URL <https://link.springer.com/article/10.1007/s10236-020-01421-0>.
- [13] A. Barth, A. Alvera-Azcárate, M. Licer, and J.-M. Beckers, Mar 2020. DINCAE 1.0: a convolutional neural network with error estimates to reconstruct sea surface temperature satellite observations. *Geoscientific Model Development*, 13(3):1609–1622. ISSN 1991-9603. doi 10.5194/gmd-13-1609-2020. URL <https://gmd.copernicus.org/articles/13/1609/2020/>.
- [14] S. Ruiz, M. Claret, A. Pascual, A. Olita, C. Troupin, A. Capet, A. Tovar-Sánchez, J. Allen, P.-M. Poulain, J. Tintoré, and A. Mahadevan, 2019. Effects of Oceanic Mesoscale and Submesoscale Frontal Processes on the Vertical Transport of Phytoplankton. *Journal of Geophysical Research*, 124(8):5999–6014. doi 10.1029/2019JC015034. URL <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2019JC015034>.
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- [17] A. Iona, A. Theodorou, S. Sofianos, S. Watelet, C. Troupin, and J.-M. Beckers, 2018. Mediterranean Sea climatic indices: monitoring long-term variability and climate changes. *Earth System Science Data*, 10(4):1829–1842. doi 10.5194/essd-10-1829-2018. URL <https://essd.copernicus.org/articles/10/1829/2018/>.
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- [21] M. Juza, R. Escudier, A. Pascual, M.-I. Pujol, G. Taburet, C. Troupin, B. Mourre, and J. Tintoré, 2016. Impacts of reprocessed altimetry on the surface circulation and variability of the Western Alboran Gyre. *Advances in Space Research*, 58(3):277–288. doi 10.1016/j.asr.2016.05.026. URL <http://www.sciencedirect.com/science/article/pii/S0273117716302125>.
- [22] M. Juza, B. Mourre, L. Renault, S. Gómara, K. Sebastián, S. Lora, J. P. Beltran, B. Frontera, B. Garau, C. Troupin, M. Torner, E. Heslop, B. Casas, R. Escudier, G. Vizoso, and J. Tintoré, 2016. SOCIB operational ocean forecasting system and multi-platform validation in the Western Mediterranean Sea. *Journal of Operational Oceanography*, 9(sup1):s155–s166. doi 10.1080/1755876X.2015.1117764. URL <http://www.tandfonline.com/doi/full/10.1080/1755876X.2015.1117764#.V4M5xP7HjGc>.
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## 7.1 – Invited Editor

Ocean Dynamics: Special Issue for the 50th Liège Colloquium on Ocean Dynamics,  [10.1007/s10236-020-01421-0](https://doi.org/10.1007/s10236-020-01421-0)

Ocean Dynamics: Special Issue for the 48th Liège Colloquium on Ocean Dynamics,  [10.1007/s10236-018-1173-5](https://doi.org/10.1007/s10236-018-1173-5)

## 7.2 – Reviewer

Earth System Science Data, Ocean Science, Ocean Dynamics, Ocean Engineering, Journal of Marine Systems, Journal of Geophysical Research – Ocean, Remote Sensing of Environment

## 7.3 – Doctoral thesis tribunal

**2017/09/25** Bàrbara Barceló-Llull (ULPGC, Spain)

*Shedding light into mesoscale dynamics and vertical motion through synthetic and in situ observations*

**2017/09/16** Yeray Santana Falcón (ULPGC, Spain)

*Transport, Respiration, and Sequestration of Organic Carbon in the Canary Current Ecosystem: Relevance within the Global Carbon Cycle*

## 7.4 – Undergraduate student training

**2020-2021** Hugo Romanelli (ULiège), supervision

**2012/05/12–2012/05/19** Joaquim Pereira Bento (Uni-Kiel, Germany)

*In situ and satellite data interpolation*

**2011/09–2011/11** Nikolaos Zarokanellos (HCMR, Greece)

*Data interpolation for the Eastern Mediterranean Sea*

**2009/01–2009/05** Marc Piedeleu (ULPGC, Spain)  
*Analysis of in situ observations south of the Canary Islands*

**2008/11–2008/12** Anna Rabitti (OGS, Italy)  
*Spatial interpolation of in situ data in the Adriatic Sea*

## 7.5 – Organisation of conferences

### Summary

From 2006 on, I have organised several editions of a training workshop about an interpolation software tool (DIVA) and helped in the organisation of the International Liège Colloquium on Ocean Dynamics. In 2016, I co-organised the 48th Edition on *Submesoscale processes*, which gathered over 200 scientists from 40 countries.

**2021/04/12-14** IMDIS Conference (online): member of the Scientific Committee and co-chair of the "Products" session.

**2020/05/4–8** EGU General Assembly 2020 (online): Co-convener of the session "*Open session on ocean processes and techniques*".

**2016/05/23–27** 48th International Liège Colloquium on Ocean Dynamics on *Submesoscale Processes: Mechanisms, Implications and new Frontiers* (Liège, Belgium)

Invitation of keynote speakers.

Applications for sponsorship.

Preparation of the scientific program.

Design of the conference flyer.

Organisation of social events.

**2012/10/08–12** 6th Diva workshop (Roumaillac, France)

Scientific content.

Invitation of the participants.

Logistic: meeting venue, transportation from/to the airport.

**2010/11/03–06** 5th Diva workshop (Calvi (France)

**2009/10/23–26** 4th Diva workshop (Calvi, France)

**2008/10/15–17** 3rd Diva workshop (Calvi, France)

**2007/11/04–06** 2nd Diva workshop (Calvi, France)

**2006/11/13–15** 1st Diva workshop (Liège, Belgium)

Workshop program.

General logistics.

## 8 – Misc

### 8.1 – Grants and funding

**2011/04 & 2015/04** EGU Young Scientist's Travel Award

**2008/05–2008/09** Travel grant (French Community of Belgium)

**2006/10–2010/09** Fund for Research Training in Industry and Agriculture (National Fund for Scientific Research, Belgium)

**2006/02–2006/09** Erasmus travel grant (European Commission)

**2005/09–2005/12** Pisart supervision grant: creation of the presentation support for the course *Thermodynamics of continuous media* in LaTeX

**2004/02–2004/06** State grant: writing of the course notes for the course *Further Study of Digital Analysis (Equations with Partial Derivatives)*



## **8.2 – Representation**

**2019–2023** Delegate at the Faculty of Sciences for the scientific staff

**2017–ongoing** Delegate at the Department Council (Astrophysics, Geophysics and Oceanography, ULiège)

**2015–2016** Member of the Monitoring Committee of the Framework Agreement between AEMET and SOCIB

**2003–2005** Student delegate

**2011–2013** Delegate at the Department Council (Astrophysics, Geophysics and Oceanography, ULiège)

## **8.3 – Memberships**

European Geosciences Union (EGU)

American Geophysical Union (AGU)

Cloud Appreciation Society