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PROFILE

Physical and biogeochemical oceanographer, focused on *in situ* ocean observations and data analysis (physical and CO₂ system variables), ocean large-scale circulation and fluxes (inverse box models and direct velocity measurements) and temporal changes in water-mass properties (multiparameter water mass mixing analysis). 13-year experience in data processing (netCDF, CSV, ASCII, etc.) and Matlab[®] programming.

Keywords: anthropogenic carbon, Azores Current, Florida Current, heat and salt transport, inorganic nutrients transport, ocean carbon cycle, Mediterranean Water, meridional overturning circulation, North-Atlantic Ocean, ocean climate, ocean dynamics, physical oceanography, water masses, subpolar gyre, subtropical gyre.

EDUCATION

Jul 2013	PhD. (Hons.) Oceanography	University of Vigo. <i>Mark: Cum Laude.</i>
Jun 2008	MSc. Applied Physics	University of Vigo. <i>Mark: Grade A (90.4)</i>
Jun 2008	BSc. Marine Science	University of Vigo <i>Mark: Grade B (77.9)</i>
Jun 2002	Certificate of Education (Hons.)	A Coruña. <i>Mark: Cum Laude.</i>

EMPLOYMENT

Dec 2019 – present	Researcher – Principal Investigator	IFREMER (Brest, France)
Feb 2018 – Nov 2018	Carbon Budget Scientist	National Oceanography Centre (Southampton, UK)
Aug 2015 – Jan 2018	Postdoctoral Research Position	University of Vigo
Jan 2014- Dec 2014	Research Associate	Spanish National Research Council (IIM-CSIC)
Jul 2009- Jul 2013	PhD Fellow	IIM-CSIC
Dec 2008- Jul 2009	Departmental Collaboration Grant	University of Málaga
Jul 2008- Aug 2008	Scientific outreach monitor	Galician Oceanographers Association
Sep 2007- Jun 2008	Departmental Collaboration Grant	University of Vigo
Jul 2007- Aug 2007	Internship	IIM-CSIC

RESEARCH STAYS

Feb - Jul 2017	Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER), Laboratoire d'Océanographie Physique et Spatiale (LOPS), Brest (France). Supervisor: Dr. Herlé Mercier. Subject: Nutrient fluxes across OVIDE section and nutrient budgets in the subtropical gyre.
Sep 2015- Jan 2017	National Oceanography Centre (NOC), Marine Physics & Ocean Climate Group (MPOC), Southampton (UK). Supervisor: Dr. Elaine McDonagh. Subject: Nutrient fluxes across RAPID section.
Sep – Dec 2014	IFREMER, LOPS, Brest (France). Supervisor: Dr. Herlé Mercier. Subject: Heat fluxes across OVIDE section.

- Sep – Dec 2011 IFREMER, LOPS, Brest (France). Supervisor: Dr. Herlé Mercier. Subject: Water masses mixing in the subpolar gyre.
- Sep – Oct 2010 IFREMER, LOPS, Brest (France). Supervisor: Dr. Herlé Mercier. Subject: Box inverse model applied to the North-East Atlantic.

FUNDING / GRANTS / AWARDS / RECOGNITION

- 2021 OCCEAN2s project awarded by Region Bretagne Loire (48 k€) and ODE/IFREMER department (48 k€) to fund a 3-yr PhD doctorate.
- 2020 CANAIMOC project awarded by ISblue ‘Appel à projet, workshops, écoles thématiques 2020’ (2.6 k€) and LOPS ‘Appel à mini-projets 2020’ (4.2 k€)
- 2018 Ocean Science Meeting Early Career Scientist Travel Grant, American Geophysical Union.
- 2015 Carbon Variability in the North Atlantic (CAVINA) Postdoctoral Project. 110 k€ awarded by the Regional Government of Galicia (Xunta de Galicia, Plan I2C) to L.I. Carracedo.
- 2014 Mobility of researchers Regional Government grant.
- 2009 FPU (Training of University Teachers) Predoctoral Spanish Grant.
- 2008 Grant for linguistic (English) immersion, Spanish Ministry of Education and Science.
- 2008 Departmental Collaboration Grant, University of Malaga.
- 2007 Departmental Collaboration Grant, Spanish Ministry of Education and Science.
- 2008 Grant for MSc. studies, Spanish Ministry of Education and Science.
- 2007 Grant for English studies abroad, Spanish Ministry of Education and Science.
- 2007 Awarded “Graduation Prize Winner”, Oceanographic Centre of Vigo, University of Vigo.
- 2002-2006 Yearly Granted for BSc. studies, Spanish Ministry of Education and Science.
- 2002 Awarded Honour Distinction (Completion of High School Studies recognition).

PUBLICATIONS

Peer-reviewed (authorship/co-authorship)

13. **Carracedo, L. I.**, Mercier, H., McDonagh, E., Rosón, G., Sanders, R., Moore, C. M., et al. (2021). Counteracting contributions of the upper and lower meridional overturning limbs to the North Atlantic nutrient budgets: Enhanced imbalance in 2010. *Global Biogeochemical Cycles*, 35, e2020GB006898. <https://doi.org/10.1029/2020GB006898>
12. Fontela M., Perez F.F., **Carracedo L.I.**, Padín X.A., Velo A., García-Ibañez M.I., Lherminier P. (2020). The Northeast Atlantic is running out of excess carbonate in the horizon of cold-water corals communities. *Scientific Reports*, 10(1), 14174 (10p.). <https://doi.org/10.1038/s41598-020-71793-2>
11. Sarthou, G., Lherminier, P., Achterberg, E.P., Alonso-Pérez, F., Bucciarelli, E., Boutorh, J., Bouvier, V., Boyle, E.A., Branellec, P., **Carracedo, L.I.**, Casacuberta, Nuria, Castrillejo, M., Cheize, M., Contreira Pereira, L., Cossa, D., Daniault, N., De Saint-Léger, E., Dehairs, F., Deng, F., Desprez de Gésincourt, F., Devesa, J., Foliot, L., Fonseca-Batista, D., Gallinari, M., García-Ibañez, M.I., Gourain, A., Grossteffan, E., Hamon, M., Heimbürger, L.E., Henderson, G.M., Jeandel, C., Kermabon, C., Lacan, F., Le Bot, P., Le Goff, M., Le Roy, E., Lefèbvre, A., Leizour, S., Lemaitre, N., Masqué, P., M., O., Menzel Barraqueta, J.L., Mercier, H., Perault, F., Pérez, F.F., Planquette, H.F., Planchon, F., Roukaerts, A., Sanial, V., Sauzède, R., Shelley, R.U., Stewart, G., Sutton, J.N., Tang, Y., Tisnérat-Laborde, N., Tonnard, M., Tréguer, P., van Beek, P., Zurbrick, C. M., Zunino, P. (2018) Introduction to the French GEOTRACES North Atlantic Transect (GA01): GEOVIDE cruise, *Biogeosciences*, 15, 7097-7109 (doi: <https://doi.org/10.5194/bg-15-7097-2018>).
10. **Carracedo, L.I.**, Pérez, F.F., M. Gilcoto, A. Velo, A. Padín, Rosón, G. (2018) Role of the circulation in the anthropogenic carbon inventory in the Azores- Gibraltar region: a climatological analysis, *Progress in Oceanography*, 161, 78-86 (doi: <https://doi.org/10.1016/j.pocean.2018.01.009>).

9. García-Ibáñez, M. I., Zunino, P., Fröb, F., **Carracedo, L. I.**, Ríos, A. F., Mercier, H., Olsen, A., and Pérez, F. F. (2016), *Biogeosciences*, 13, 3701-3715 (doi: <https://doi.org/10.5194/bg-13-3701-2016>).
8. **Carracedo, L.I.**, Pardo, P. Flecha, S., Pérez, F. (2016) On the Mediterranean Water Composition, *Journal of Physical Oceanography*, 46, 1339–1358 (doi: <http://dx.doi.org/10.1175/JPO-D-15-0095.1>).
7. García-Ibáñez, M.I., Pardo, P.C., **Carracedo, L.I.**, Mercier, H., Lherminier, P., Ríos, A.F., Pérez F.F. (2015) Structure, transports and transformations of the water masses in the Atlantic Subpolar Gyre, *Progress in Oceanography*, 135, 18-36, ISSN 0079-6611 (doi: <http://dx.doi.org/10.1016/j.pocean.2015.03.009>).
6. **Carracedo, L.I.**, Gilcoto, M., Mercier, H., Pérez, F.F. (2015) Quasi-synoptic transport, budgets and water mass transformation in the Azores–Gibraltar Strait region during summer 2009, *Progress in Oceanography*, 130, 47-64 (doi: <http://dx.doi.org/10.1016/j.pocean.2014.09.006>).
5. **Carracedo, L.I.**, Gilcoto, M. Mercier, H., Pérez, F.F. (2014) Seasonal dynamics in the Azores-Gibraltar Strait region: a climatologically-based study, *Progress in Oceanography*, 122, 116-130 (doi: <http://dx.doi.org/10.1016/j.pocean.2013.12.005>).
4. Ribas-Ribas, M., **Carracedo, L.I.**, Anfuso, E., and Forja, J. M. (2012) Tidal and seasonal carbon and nutrient dynamics of the Guadalquivir estuary and the Bay of Cádiz (SW Iberian Peninsula). *Biogeosciences Discussion*, 9 (10), 14537-14558 (doi: [10.5194/bgd-9-14537-2012](https://doi.org/10.5194/bgd-9-14537-2012)).
3. Fajar, N., Pardo, P., **Carracedo, L.**, Vázquez-Rodríguez, M., Ríos, A., Pérez, F. (2012) Trends of anthropogenic CO₂ along 20° W in the Iberian Basin, *Ciencias Marinas.*, 38(1B), 287-306 (doi: <https://doi.org/10.7773/cm.v38i1B.1810>).
2. **Carracedo, L.**, Pardo, P., Villaceros-Robineau, N., De la Granda, F., Gilcoto, M., Pérez, F. (2012) Temporal changes in the water mass distribution and transports along the 20° W CAIBOX section (NE Atlantic), *Ciencias Marinas*, 38(1B), 263-286 (doi: <https://doi.org/10.7773/cm.v38i1B.1793>).
1. García-Lafuente, J., Delgado, J. Sánchez-Román, A. Soto, J., **Carracedo, L.**, Díaz del Río, G. (2009) Interannual variability of the Mediterranean outflow observed in Espartel sill, western Strait of Gibraltar, *Journal of Geophysical Research*, 114, C10018 (doi: <https://doi.org/10.1029/2009JC005496>).

Manuscripts in preparation

- * **Carracedo, L.I.**, McDonagh, E., Brown, P., Torres-Valdés, S., Sanders, R., Moore, M., Baringer, M., Rosón, G. (2021) North Atlantic nutrient pool reorganization by the Meridional Overturning Circulation (*in submission, Science / Science Advances*).
- * **Carracedo, L.I.**, et al. Seasonal variability of the North Atlantic 'nutrient stream' (*in prep.*).
- * **Carracedo, L.I.**, et al. Increased southward transport of excess nitrate at 26N (*in prep.*).
- * **Domingues, C.M.**, et al. High temporal-resolution oxygen signatures at 26N (*in prep.*).
- * **Mawji, E.** et al. The ABC nutrient database (*in prep.*).

Monographs, reports, datasets and non-peer-reviewed proceedings

12. **Carracedo, L.I.** (2020) Discrete chemical sampling, Satlantic SeapHOx sensors, Remote Access Samplers (RAS), in JC174 cruise report (Smeed, D.).
11. **Carracedo, L.I.** (2018) Winkler oxygen, in JC174 cruise report (Smeed, D.).
10. **Carracedo, L.I.** (2016, 2017, 2018) Nutrient transports across RAPID, in ABC Fluxes report (McDonagh, E.)
9. **Carracedo, L.I.** (2016) SADCP, in DY040 cruise report (King, B., eds. **Carracedo, L.I.**, Kent E.).
8. Gilcoto, M., F. Perez, A, Rios, N. Fajar, P.C. Pardo, **L. Carracedo**, V. Vieitez, M. de la Paz. (2015). (25 July - 13 August, 2009). Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, US Department of Energy, Oak Ridge, Tennessee (doi: [10.3334/CDIAC/OTG.CLIVAR CAIBOX 2009](https://doi.org/10.3334/CDIAC/OTG.CLIVAR_CAIBOX_2009)).

7. F.F. Pérez., F. Alonso, **L.I. Carracedo**, M. I. García-Ibáñez (2014) Biogeochemistry, in GEOVIDE 2014 cruise report (Sartou, G., Lherminier, P.).
6. **Carracedo, L.I.** (2013) Subtropical North-East Atlantic water masses and transports: broadening the knowledge of the overturning circulation in the Azores-Gibraltar region. PhD. Thesis. Supervisors: Pérez, F.F., Gilcoto, M., University of Vigo, Spain, 293p (URI: <http://hdl.handle.net/10261/90453>).
5. Ribas-Ribas, M., **Carracedo, L.I.**, Gomez-Parra, A., Forja, J. M. (2012) Influence of the Bay of Cádiz and the Guadalquivir Estuary on the Carbon Distribution in the North Eastern Shelf of the Gulf of Cádiz (SW Iberian Peninsula). Proceedings of the ESA, SOLAS & EGU Joint Conference Earth Observation for Ocean-Atmosphere Interactions Science, held on 29 November - 2 December 2011 at Frascati in Italy. Edited by L. Ouwehand. ESA-SP Vol. 703, id.29 (2012ESASP.703E..29R).
4. Rosón, G., **Carracedo, L.I.** (2012) Salinity, in CATARINA 2012 cruise report (Ríos, A.F.).
3. Barton, Eric D., **Carracedo, L.**, Granda Grandoso, F., Paz, M., Fajar, N.M, Fernández Bastero, S., Pérez, F.F., Ríos, A.F., Gilcoto, M., Lonborg, C., Vázquez Rodríguez, M, Vieitez dos Santos, V., Villaceros, N. (2009) CAIBOX 2009 cruise report, 2nd CAIBEX leg: Shelf-ocean exchanges in the Canaries-Iberia Large Marine Ecosystem.
2. Delgado J., **Carracedo L.I.**, García-Lafuente J. (2009) Methodological proposal to diagnose and predict the consequences of human activities on the Guadalquivir Estuary. Exchange of properties between Guadalquivir River and Gulf of Cádiz Shelf: Description and analysis of one-year observations in the river mouth. Report to Seville (Spain) Port Authority, University of Malaga.
1. **Carracedo L.I.** (2008) Correlation between upwelling index, sea level and thermohaline variables in Rande Strait, Ría of Vigo. MSc Thesis. Supervisors: Herrera J., Varela R., Rosón G., Department of Physical Oceanography, University of Vigo, 25p.

RESEARCH PROJECTS

- OCCEAN2s (Overturning Circulation & Carbon storagE in the Atlantic North: Seasonal Signatures). PI: Lidia Carracedo, LOPS, Ifremer, Brest (France).
- EUROSEA (Improving and integrating the European Ocean Observing and Forecasting System). Ifremer partner collaborator of WP7, Task 7.1 Carbon audit of the European relevant deep convection regions.
- BOCATS2 (Biennial Observation of Carbon, Acidification, Transport and Sedimentation in the North Atlantic). PI: Antón Velo, IIM-CSIC, Vigo (Spain).
- ABC (Atlantic Biogeochemical Fluxes). PI: Elaine McDonagh, NOC, Southampton (UK).
- RAPID (Rapid Climate Change). PI: David Smeed, Southampton (UK).
- CAVINA (Carbon Variability in the North Atlantic). Regional funding (Xunta de Galicia, Plan I2P). PI: Lidia I. Carracedo. Universidade de Vigo (Spain).
- RAGNARoCC (Radiatively active gases from the North Atlantic Region and Climate Change). PI RAGNARoCC consortium: Prof. Andy Watson.
- GEOTRACES (An International Study of Marine Biogeochemical Cycles of Trace Elements and their Isotopes). International Research Programme. Scientific Steering Committee (SSC) Member: G. Sarthou.
- CARBOCHANGE (Changes in carbon uptake and emissions by oceans in a changing climate). European Collaborative Project, UE FP7-ENV-2010, 264879. Project PARTNER: IIM-CSCI, Scientist in charge: A.F. Ríos.
- CATARINA (CARbon Transport and Acidification Rates in the North Atlantic). Spanish National Project, CTM2010-1714, PI: A. Fernández Ríos. Marine Research Institute (IIM-CSIC), Vigo (Spain).

- *OVIDE* (Observatoire de la Variabilité Interannuelle à Décennale en Atlantique Nord). Institut français de recherche pour l'exploitation de la mer (IFREMER), CNRS/INSU, EU FP6 project CARBOOCEAN (511176) and EU FP7 project CARBOCHANGE (264879). PI: Herlé Mercier, IFREMER, Brest (France).
- CAIBEX (Shelf–ocean exchanges in the Canaries–Iberian Large Marine Ecosystem). Spanish National Project, CTM2007–66408–CO2–01/MAR, CTM2007–30809–E/MAR, CTM2008–05305–E/MAR. PI: Eric Desmond Barton. Marine Research Institute (IIM-CSIC) Vigo (Spain).
- *INGRES* (Exchanges in Gibraltar Strait and response to meteorological and climatic forcing). Spanish National Project, PI: Jesús García-Lafuente, Group of Physical Oceanography, Applied Physics II, University of Malaga (Spain).
- *Methodological proposal to diagnose and predict the consequences of human activities on the estuary of the Guadalquivir*. Spanish National Project, Department of Ecology and Coastal resources, Marine Research Institute of Andalusia (ICMAN-CSIC) (Spain).
- *CODA* (Cetacean Offshore Distribution and Abundance in the European Atlantic) French, Irish, Spanish and English Project, WC04016. Spanish chief scientist: S. Lens, Institute of Oceanography (IEO), Vigo (Spain).

CRUISES

Mai-Jun 2021	<i>R/V Sarmiento de Gamboa</i> , BOCATS2 - OVIDE 20201 cruise , Subpolar North Atlantic. Tasks: CTD casts and cruise data analysis.
March 2020	<i>RSS James Cook</i> , JC192- RAPID cruise , Subtropical North Atlantic. Tasks: BGC responsible (Remote Access Sampler, oxygen sampling and analysis, and ODO-MicroCAT, SeapHOx and Contros pCO ₂ sensor mooring data)
Oct-Nov 2018	<i>RSS James Cook</i> , JC174- RAPID cruise , Subtropical North Atlantic. Tasks: Remote Access Sampler, oxygen sampling and analysis, ODO-MicroCAT mooring data processing.
Dec - Jan 2016	<i>RSS Discovery</i> , DY040 cruise , Subtropical North Atlantic. Tasks: CTD casts and SADCP processing.
May - Jun 2014	<i>R/V Pourquoi pas?</i> , GEOVIDE 2014 cruise , Subpolar North Atlantic. Tasks: pH, total alkalinity (TA), nutrients, total carbon, C ¹³ , O ¹⁸ sampling; pH, total alkalinity analysis.
Jun – Jul 2012	<i>R/V Sarmiento de Gamboa</i> , CATARINA 2012 cruise , Subpolar North Atlantic. Tasks: CTD casts and salinity analysis.
Jun –Jul 2010	<i>R/V Thalassa</i> , OVIDE 2010 cruise , Subpolar North Atlantic. Tasks: CTD cast and oxygen sampling.
Jul – Aug 2009	<i>R/V Sarmiento de Gamboa</i> , CAIBOX 2009 cruise , North East Atlantic. Tasks: 1 st half of the cruise: pH, TA, total carbon, oxygen and salinity sampling; pH, total alkalinity and oxygen analysis; 2 nd half: CTD cast and SADCP data processing.
Jun 2009	<i>R/V Odón de Buen</i> , INGRES 0609 cruise , Gibraltar Strait. Tasks: CTD-ADCP mooring maintenance- deployment and CTD cast.
Jul 2007	<i>R/V Cornide de Saavedra</i> , CODA-IEO 0707 cruise , Galician shelf. Tasks: Guest student learning whale observing and acoustic techniques.

CONFERENCES/WORKSHOPS

Oral communications

- 2020 *Invited speaker, University of East Anglia (UK)*, 9 Nov. North Atlantic nutrient pool reorganization by the Meridional Overturning Circulation.

- 2019 *Invited speaker at Bjerknes Centre for Climate Research, NORCE, Bergen (Norway), 29 Nov. Meridional Overturning Circulation and the North Atlantic nutrient pools: a transient response to circulation changes.*
- 2019 *ICOS Symposium on the North Atlantic Carbon Cycle, 19 Mar, Southampton (UK)*
Carracedo, L. I.; McDonagh, E.; Sanders, R.; Moore, C.M.; Brown, P.; Torres-Valdés, S.; Baringer, M.; Smeed D.; Rosón G. Overturning circulation regulates the North Atlantic nutrient pool and biological pump efficiency.
- 2019 *RAPID / OSNAP / ABC Project International Review, 8-10 Jan, London (UK).*
Carracedo, L.I., McDonagh, E., Sanders, R., Moore, M., Brown, P. Nutrient transport across the RAPID section and implications for biological carbon uptake.
- 2018 *2018 International AMOC Science Meeting US CLIVAR, 24-27 July, Coconut Grove (Florida).*
Carracedo, L.I., McDonagh, E., Brown, P., Sanders, R., Mercier, H., Torres-Valdés, S., Moore, M., Baringer, M., Rosón, G., Pérez, F.F. AMOC regulation of the inorganic nutrient content in the North Atlantic.
- 2018 *AGU Ocean Sciences Meeting, 11-16 February, Oregon (US).*
Carracedo, L.I.; McDonagh, E.; Mercier, H.; Brown, P.; Rosón, G.; Sanders, R.; Moore, M.; Torres-Valdés, S.; Pérez, F.F.; Baringer, M. On the variability of the basin-scale nutrient transports and budgets in the North Atlantic.
- 2017 *Conference LEFE-IMAGO: Observing and understanding the AMOC, 3-5 May, Brest (France).*
Carracedo, L.I.; McDonagh, E.; Brown, P. AMOC-driven nutrient flux variability across the RAPID-26N section.
- 2016 *RAGNARoCC/ABC meeting, 5-6 Oct, Exeter (UK).*
Carracedo, L.I.; McDonagh, E.; Brown, P.; Torres-Valdés, S.; Sanders, R.; Moore, M.; Baringer, M.; Smeed, D.; Rosón G. Trends and temporal variability on nutrients fluxes across 26.5°N-RAPID section.
- 2015 *ABC Fluxes Update Meeting, 14 Oct, NOC, Southampton (UK).*
Carracedo, L.I.; McDonagh, E.; Brown, P. Nutrient Fluxes in the North Atlantic: Preliminary results.
- 2013 *III CATARINA Workshop, 25 Feb, IIM-CSIC, Vigo (Spain).*
 García-Ibáñez, M.I.; Pérez, F.F.; **Carracedo, L.I.**; Mercier, H.; Pardo, P.C.; Lherminier, P. Water masses distribution and transport along the OVIDE sections: preliminary results.
- 2011 *II CATARINA workshop, 19-21 Dec, ECIMAT, Vigo (Spain).*
Carracedo, L.I.; García, M.; Mercier, H.; Pardo, P.C.; Lherminier, P.; Pérez, FF; Gilcoto, M. Water masses distribution and transport: first approximation in methodology and preliminary results.
- 2010 *CAIBEX Workshop, 29-30 Nov, IIM-CSIC, Vigo (Spain).*
Carracedo, L.I.; Gilcoto, M.; Pérez FF; Mercier, H.; Pardo, P.C.; Kermabon, C.; Lherminier, P. CAIBOX 2009, Box Inverse Model in CAIBOX region.
- 2010 *I Spanish Meeting in Physical Oceanography, 13-15 Oct, Barcelona (Spain).*
Carracedo, L.I.; Gilcoto, M.; Pérez, F.F.; Mercier, H.; Pardo, P.C.; Kermabon, C.; Lherminier, P. Water mass transport estimates in the CAIBEX region (NE Atlantic) with inverse model.
- 2010 *XV- Iberian Seminar on Marine Chemistry, 22-24 Feb, Vigo (Spain).*
 Fajar, N.M.; **Carracedo, L.I.**; Vázquez-Rodríguez, M.; Ríos, A.F.; Pérez, F.F. Temporal evolution of carbonic system along 20°W Iberian region.

- 2009 *Spain-China Symposium on geophysical and geochemical geosystems, Zaragora (Spain).*
A. Sanchez Román; J. García-Lafuente; **L. Carracedo**. Tidal currents and associated transports in the Strait of Gibraltar.
- 2009 *4th ESF MedCLIVAR Workshop, 28-30 Sep, Sesimbra (Portugal).*
Sánchez Román, A.; García Lafuente, J.; Vargas, J.M.; Delgado, J.; Criado-Aldeanueva, F.; Sánchez Garrido, J.C.; Soto Navarro, J.; Calero Quesada, C.; **Carracedo, L.**; Sannino, G. Tidal Five year-long time series of the Mediterranean outflow at the western exit of the Strait of Gibraltar.
- Posters*
- 2020 *EGU General Assembly: Sharing Geoscience Online ,4-8 May, Online.*
Carracedo, L.I., McDonagh, E., Sanders, R., Mawji, E., Torres-Valdés, S., Baringer, M., Mercier, H. and Thierry, V. Unravelling the North Atlantic 'nutrient stream' variability.
- 2019 *EGU General Assembly, 7-12 Apr, Vienna (Austria).*
Rayner, D.; Moat, B.; Frajka-Williams, E.; Smeed, D.; Brown, P.; **Carracedo, L.**; McDonagh, E.; Wright, H., Mack, S.; Foden, P.; Walk, J.; Balfour, C. Recent Developments of the RAPID 26N Array.
- 2017 *Understanding Change and Variability in the NA Climate System
ACSIS-OSNAP-RAPID Joint Science Meeting, 19-21 Sep, Oxford (UK).*
Carracedo, L.I.; McDonagh, E.; Brown, P.; Torres-Valdés, S.; Sanders, R.; Moore, M.; Baringer, M.; Smeed, D.; Rosón G. 2004-2012 basin-scale nutrient transport across the RAPID-26.5°N section: towards the nutrient budgets in the North Atlantic Subtropical Gyre.
- 2016 *Challenger Society 2016 Conference- OcOceans and Climate, 5-8 Sep, Liverpool (UK).*
Carracedo, L.I., McDonagh, E., Brown, P., Torres-Valdés, S., Sanders, R., Moore, M., Baringer, M., Smeed, D., Rosón G. Impact of the variability of the gyre and meridional overturning circulation on the nutrient transports: extreme event of 2010.
- 2014 *EGU General Assembly, 27 Apr-2 May, Vienna (Austria).*
García-Ibáñez, M.I., Pardo, P.C., **Carracedo, L.I.**, Mercier H., Lherminier, P., Ríos, A.F., Pérez F.F. The water mass structure and transports in the Atlantic Subpolar Gyre.
- 2012 *EGU General Assembly, 22-27 Apr, Vienna (Austria).*
Carracedo L.I., García M., Mercier H., Conde, P., Lherminier P., Pérez F.F., Gilcoto M. Interannual variability of water masses transports across A25-OVIDE section (subpolar Atlantic gyre).
- 2010 *I Spanish Meeting in Physical Oceanography, 13-15 Oct, Barcelona (Spain).*
Villaceros-Robineau N., Herrera J.L., Castro C.G., Piedracoba, S., Redondo, W., Graña, R., Alonso-Pérez, F., Barreiro, B., **Carracedo, L.I.**, Gilcoto M., Rosón G. Seasonal characterization of the velocity field of the bottom nepheloid layer in the Ria de Vigo (NW Iberian Peninsula).
- 2010 *XV- Iberian Seminar on Marine Chemistry, 22-24 Feb, Vigo (Spain).*
Carracedo L.I., Pardo, P.C., De la Granda, F., Villaceros-Robineau, N., Gilcoto, M. and Pérez, F.F. Water masses distributions and transports in CAIBOX-20°W section.
Fajar N.M., **Carracedo L.I.**, Vázquez-Rodríguez M, Ríos A.F., Pérez, F.F. Temporal evolution of carbonic system along 20°W Iberian region.
- 2009 *II International Symposium of Marine Science, 27-30 Apr, Vigo (Spain).*
Carracedo L.I., Herrera J., Varela R., Pérez V., Allen-Perkins S., Montero P., Ayensa G., Rosón G., Delgado J. Correlation between upwelling index, sea level and thermohaline variables in Rande Strait, Ría of Vigo.

- 2009 *EGU General Assembly*, 19-24 Apr, Vienna (Austria).
 J. Soto, F. Criado Aldeanueva, J. García Lafuente, A. Sánchez Román, **L. Carracedo**. Interannual variability of the air-sea heat exchange in the western Mediterranean in relation to the deep-water formation processes.
 A. Sánchez-Román, J. García-Lafuente, J. Delgado, J. Soto, **L. Carracedo**. Transport estimates at the western section of the Strait of Gibraltar.
 F. Criado-Aldeanueva, J. Del Rio-Vera, J. Soto-Navarro, J. García-Lafuente, A. Sánchez-Román, J.C. Sánchez-Garrido, **L. Carracedo**, J. Delgado and J.M. Vargas. A new insight on the decreasing sea level trend over the Ionian basin in the last decades.

Attendance

- 2015 6th Symposium The ocean and the renewable energies, Vigo (Spain).
 2009 Workshop in Hydraulic and Computational Oceanography, Santiago de Compostela (Spain).
 2008 International Symposium Effects of Climate Change on the World's Oceans, Gijón (Spain).
 2006 XXIV Sea Study's Week, Vilagarcía de Arousa (Spain).

TEACHING/ OUTREACH

- | | |
|---------------------|--|
| Nov 2021 – Apr 2023 | Postdoc co-supervisor EUROSEA project. |
| Nov 2021 - Nov 2024 | PhD co-supervisor OCCEAN2s project. |
| Aug 2021 - Jul 2025 | PhD co-supervisor BOCATS2 project. |
| Jul – Aug 2021 | M1 student internship co-supervisor OVIDE-BOCATS2 project. |
| Feb 2020 | Master class. Subject: Large-scale ocean circulation. SML Master's degree M2 Ocean Physics and Climate, IUEM/UBO (Plouzané, France). |
| Jun 2018 | Open Day at National Oceanography Centre (Southampton, UK). |
| Mar 2015 | Master class. Subject: Biogenic gases. MSc Oceanography. University of Vigo (Spain). |
| Sep - Oct 2010 | Divulgarion Workshop "Exper-i-Ciencia 2010", 5th Edition. Pre-school Education and Primary School Pedro Caselles Rollán, Xove (Lugo, Spain), 2010 Divulgamar, IIM-CSIC. Monitor. |
| May 2010 | Divulgarion Workshop "Marine Science in the Market", 3rd Edition, Gijón (Asturias, Spain), Divulgamar, IIM-CSIC. Monitor. |
| Nov 2009 | Divulgarion Workshop "Marine Science in the Market", 2nd Edition, Vigo (Pontevedra, Spain), Divulgamar, IIM-CSIC. Monitor. Honour mention "Science in Action 2010". |
| Jul - Aug 2008 | Divulgarion Workshop "Effervescence in the Beach", winner of the Spanish National Prize of Divulgarion "Science in Action 2009". Oceanographers Association of Galicia. Monitor. |

EXTERNAL ACTIVITIES

Professional membership

- | | |
|--------------------|---|
| Feb 2019 - present | European Geophysical Union, EGU. |
| Mar 2017 - present | American Geophysical Union, AGU. |
| Sep 2016 - present | Challenger Society for Marine Science (UK). |
| Sep 2007 - present | Galician Oceanographers Association, AOG (Spain). |

Service to professional bodies/ chairperson

- | | |
|---------------------|---|
| Feb 2021 | Chair and organizer of CANAIMOC Workshop, Ifremer (France). |
| Jan 2020 – Jun 2021 | LOPS Seminars Organising Committee |

Apr 2019 – Jul 2021	Early Career Researcher and Diversity Coordinator, Challenger Society (UK).
Sep 2018 – Sep 2019	Member of the NOC Friday Seminars Organizing Committee.
May 2014 - Aug 2015	Chair of Institutional Relations Commission, AOG, Vigo (Spain).
Feb 2010	Technical office staff, XV Seminar on Marine Chemistry, Vigo (Spain).

Expert reviewer

Elsevier (*Deep Sea Research*), AGU (*Geophysical Research Letters*), AMS (*Journal of Atmospheric and Oceanic Technology*), *Second Order Draft of the IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC)*, *Geosciences (MPDI)*, Abstract reviewer (*Physical Oceanography Meeting, EOF 2018*).

FORMATION/TRAINNING

- Mar 19 *RAPID-OSNAP Media Spokesperson Training*, National Oceanography Centre (UK).
- Mar 19 *Introduction to Management*, UKSBS Learning, Swindon (UK)
- Dec 18 *Fundamentals of Project Planning and Management*, FutureLearn online course, Uni. of Virginia (USA)
- Apr 14 *Estimation of measurement uncertainty in chemical analysis*. MOOC, Univ. of Tartu (Estonia)
- Sep 13 *FORTTRAN 90*. Galician Supercomputacional Centre, Santiago de Compostela (Spain)
- Sep 12 *Operational Oceanography*. OceanTeacher Academy Course, Oostende (Belgium)
- Apr 13 *Workshop in Scientific Writing*, IIM-CSIC, Vigo (Spain)
- Jul 11 *Matlab applied to oceanography*. IIM-CSIC, Vigo (Spain)
- Jan 11 *Introduction to gvSIG 1.9*. Galicia Oceanographers Association, University of Vigo (Spain)
- Oct 09 *Applied R*. Galicia Oceanographers Association, University of Vigo (Spain)
- May 08 *Introduction to Linux*. New Technology Area Department, Caixanova Social Centre, Vigo (Spain)
- Dec 08 *Nautical title: Fishery Local Skipper*. Marine and Fishing Polytechnic Institute, Vigo (Spain)
- May 08 *Nautical title: Basic Formation*. Marine and Fishing Polytechnic Institute, Vigo (Spain)
- Oct 07 *Nautical title: Sailor Competences*. Marine and Fishing Polytechnic Institute, Vigo (Spain)
- Nov 05 *Open Water Diver*. Buceo Islas Cíes, Maritime Authority Registered School, Vigo (Spain)
- Jul 04 *Formation of volunteer Coordinators Course*, University of Vigo (Spain)

LANGUAGES

- English*: C1 (Advanced English Level, Spanish Official Language School; FCE, Cambridge University)
- Spanish*: Mother tongue
- Galician*: Mother tongue
- French*: B2 (French Intermediate Course)
- Signs Language*: B1 (Spanish Sign Language Course, University of Vigo)