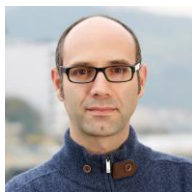


PERSONAL INFORMATION

Guillem Chust



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 gchust@azti.es

Sex Male | Date of birth 21 April 1971 | Nationality Spanish

WORK EXPERIENCE

- 01/01/2024 – Present Head of Global Change in Marine Ecosystems at AZTI (Spain)
- 2018 – 2023 Principal Researcher at AZTI (Spain)
- 2005 – 2017 Senior Researcher at AZTI (Spain)

- Participation in more than 30 research projects from local to national and European level (leading WPs in some of them: HORIZON C-BLUES, MEECE (FP VII), EURO-BASIN (FP VII), Mission Atlantic (H2020).
- Delegate in the Scoping meeting of the IPCC 6th Assessment Report, 2017
- Co-organizer of 10 congress/workshops/sessions in climate change
- Invited seminars and lecturer in international masters: 37
- 112 publications in SCI-indexed journals ([Scopus](#)), incl. **Nature Communications**
- 5,167 citations, *h*-index=42 ([Scopus](#)), *h*-index=49 ([Google scholar citations](#))
- Participation in more than 100 Congresses
- PhD supervisor: 6 students
- Participation in 6 PhD jury
- Master thesis supervisor: 7

EDUCATION AND TRAINING

Nov 2002 – Dec 2004, Postdoc position at Evolution et Diversité Biologique (CNRS/UPS, Toulouse, France). Fellowship: Ministry of Education and Science (Spanish Government).

22 April 2002, Ph.D. thesis from the University of Paul Sabatier (Toulouse, France), Grade: *Cum Laude*. Realised at CESBIO (CNES, France) and at the Ecology department (University of Barcelona, Spain). Title: 'Satellite-derived landscape descriptors and its use in biodiversity mapping'. Fellowships from University of Barcelona, and from Ministry of foreign affairs (French Government).

July 1997, Master thesis in Ecology at the University of Barcelona.

June 1995, Degree in Biology at the University of Barcelona (5th year of Biology in Bangor, University of Wales, ERASMUS program).

RESEARCH INTERESTS

- Climate change monitoring and impacts on marine and coastal ecosystems
- Habitat modelling and mapping
- Community ecology and population connectivity
- Marine and estuarine monitoring
- Environmental impacts at sea, marine and benthic ecology
- Biological oceanography and marine environmental resources

PERSONAL SKILLS

Mother tongue(s) Spanish and Catalan

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C2	C1	C2
French	C2	C1	C2	C2	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

PUBLICATIONS (PEER-REVIEWED) 10 Selected (out of 112)

1. **Chust et al.** 2025. Why do oceans shelter fewer species than land? A review on the role of sinking, dispersal and body size. *Oikos* 2025:e11542. <https://doi.org/10.1002/oik.11542>
2. **Chust et al.** 2024. Cross-basin and cross-taxa patterns of marine community tropicalization and deborealization in warming European seas. *Nature Communications* 15:2126. <https://doi.org/10.1038/s41467-024-46526-y>
3. Taboada, F. G., **G. Chust et al.** 2024. Shrinking body size of European anchovy in the Bay of Biscay. *Global Change Biology* 30:e17047. DOI: <https://doi.org/10.1111/gcb.17047>
4. **Chust et al.** 2023. Species acclimatization pathways: Latitudinal shifts and timing adjustments to track ocean warming. *Ecological Indicators* 146:109752. <https://www.sciencedirect.com/science/article/pii/S1470160X22012250>
5. **Chust et al.** 2022. Climate regime shifts and biodiversity redistribution in the Bay of Biscay. *Science of the Total Environment* 803:149622. <https://doi.org/10.1016/j.scitotenv.2021.149622>
6. Erauskin-Extramiana, M., H. Arrizabalaga, A. J. Hobday, A. Cabré, L. Ibaibarriaga, I. Arregui, H. Murua, and **G. Chust.** 2019. Large-scale distribution of tuna species in a warming ocean. *Global Change Biology* 25:2043-2060. <https://onlinelibrary.wiley.com/doi/abs/10.1111/gcb.14630>.
7. Villarino et al. and **G. Chust.** 2018. Large-scale ocean connectivity and planktonic body size. *Nature Communications* 9:142. <https://doi.org/10.1038/s41467017-02535-8>.
8. **Chust et al.** (2014) Biomass changes and trophic amplification of plankton in a warmer ocean. *Global Change Biology*, 20:2124-2139. DOI: 10.1111/gcb.12562.
9. **Chust et al.** (2013) Connectivity, neutral theories and the assessment of species vulnerability to global change in temperate estuaries. *Estuarine, Coastal and Shelf Science*, 131, 52-63. DOI: 10.1016/j.ecss.2013.08.005.
10. **Chust et al.** (2011) Climate Change impacts on the coastal and pelagic environments in the southeastern Bay of Biscay. *Climate Research* 48:307–332. DOI: 10.3354/cr00914.

PROJECTS (selected) Leadership of funded competitive projects:

1. C-BLUES - Carbon sequestration in BLUe EcoSystems. Funding: EU H2020. Role: WP leader.
2. Mission Atlantic - BG-08-2018-2019 All Atlantic Ocean Research Alliance Flagship. Funding: EU H2020. Role: WP leader.
3. Urban Klima 2050 - Systemic implementation of the CC action in the Basque Country for increased urban resilience as full territory enabler. Funding: LIFE Grant agreement n°: LIFE18 IPC/ES/000001. Role: participation.
4. OBSERVAMAR, Observatorio marino del cambio climático del golfo de Bizkaia - Funding: Fundación Biodiversidad. Role: leading.
5. CLIREMAR - Escenarios climáticos de los recursos marinos vulnerables de España. 2017-2018. Funding: Fundación Biodiversidad. 44.748 €. Role: leading.
6. DEVOTES, DEVelopment Of innovative Tools for understanding marine biodiversity and assessing good Environmental Status. Grant Agreement number: 308392; FP7 Theme: Environment (Including Climate Change), 2012-2016. Role: Task leader.
7. MEECE, Marine Ecosystem Evolution in a Changing Environment”, Project number: 212085, 7th Framework Programme, 2008-2010. Role: leading a WP. Funds for the AZTI partner: 662,975 €
8. European Basin-scale Analysis, Synthesis and INtegration (EURO-BASIN). Project number: 264933, 7th Framework Programme, 2010-2014. Role: leading a WP. Funds for the AZTI partner: 309,000 €.
9. Climate Change: impacts and adaptation in the Basque Country (K-Egokitzen). Funding entity: Department of Environment, Regional Planning, Agriculture and Fisheries of the Basque Country (Etorrek Funding Program). Role: leading a WP. Dates: 2007-2010. Funds for the AZTI partner: 427,196 €
10. Application of high resolution sensors for evaluating climate change impacts in the Biosphere Reserve of Urdaibai. Funding entity: Spanish Ministry of Environment (Spanish Government, Ref.: 0.39/SGTB/2007/4.1). Role: leader. Dates: 2007- 2009; Funds: 100,072 €
11. Biophysical estimation using medium resolution remote sensors for coastal water quality assessment. Funding entity: Ministry of Science and Innovation (Spanish Government, Ref.:ESP2006-10411). Role: leader. Dates: 2006-2009; Funds: 63,000 €.
12. Estimación de parámetros biofísicos a partir de sensores remotos de resolución media para la evaluación de la calidad de las aguas costeras. Funding entity: Plan Nacional I+D+i (2004-2007), Ministerio de Educación y Ciencia (Ref. ESP2006-10411). Entidades participantes: 1. Dates: 2006 - 2009. Funds: 63.000 €. Role: leader.

13. Observación Operacional de Sedimentos en Suspensión en EUSKADI-AQUITANIA mediante sensores remotos. Funding entity: Fondo para la Cooperación Aquitania-Euskadi. Entidades participantes: 3. Dates 2007 - 2008. Funds: 24.650 € Role: leader.
14. Vulnerabilidad de los hábitats naturales del estuario del Bidasoa frente al ascenso del nivel del mar. Funding entity: Fondos de cooperación Aquitania-Euskadi. Entidades participantes: 2. Dates: 2010 - 2011. Funds: 18.000 €. Role: leader.

EDITORIAL BOARD AND EXPERT REVIEWER

1. Associate Editor of *Frontiers in Marine Science: Global Change and the Future Ocean*, 2021-2022.
2. Review Editor de *Frontiers in Marine Science: Marine Ecosystem Ecology*, 2013-2021.
3. Review Editor of *Frontiers in Marine Science: Global Change and the Future Ocean*, 2014-2021.
4. Expert reviewer in "Climate change, impacts and vulnerability in Europe, an indicator-based report" (2016). European Environment Agency, 419 pp., ISBN 978-92-9213-835-6, doi:10.2800/534806.
5. Reviewer of the Climate Change Special Report: Kersting DK (2016) "Cambio climático en el medio marino español: impactos, vulnerabilidad y adaptación". Oficina Española de Cambio Climático, Ministerio de Agricultura, Alimentación y Medio Ambiente. Madrid, 166 pág.
6. Delegate in the Scoping meeting of the IPCC 6th Assessment Report, 1-5 May 2017, Addis Abeba, Ethiopia.

ORGANIZATION OF CONGRESSES AND SESSIONS

1. Member of the organizing committee in EUR-OCEANS Hot Topics Conference - A Changing Ocean. 6-8 November 2013, PLOCAN, Gran Canaria, Spain.
2. Chairman of the ECSA session "From genes to ecosystem: effects of global climate change". ECSA 54 Conference - Coastal systems under change, Sesimbra, Portugal, 12-16 May 2014.
3. Organization of a session in the ASLO 2015: "Biological connectivity and its importance within the context of global change". Aquatic Sciences Meeting (ASLO), 22-27 February 2015, Granada, Spain.
4. Co-organizer of PlankDiv Workshop: Impact of climate change on the distribution of plankton functional and phylogenetic diversity. 14-17 March 2016, Villefranche sur mer, France.
5. Congress Chairman of UHINAK, II Cross border conference on climate and coastal change. 27 - 28 September 2016, FICOBA, Irun, Spain.
6. Co-organizer of the EuroMarine Working Group PlankBioS – "Present and future plankton biogeography and the link between community structure, marine ecosystem functioning and ecosystem service provision", Donostia-San Sebastián, 13 – 15 June, 2017.
7. Congress co-organizer of UHINAK, III Cross border conference on climate and coastal change. 6-7 March 2018, FICOBA, Irun, Spain.
8. Congress co-organizer of UHINAK, IV Cross border conference on climate and coastal change. 4-5 November 2020, FICOBA, Irun, Spain. <http://www.uhinak.com>
9. Congress co-organizer of UHINAK, V Cross border conference on climate and coastal change. 16-17 November 2022, FICOBA, Irun, Spain. <http://www.uhinak.com>
10. Congress co-organizer of UHINAK, V Cross border conference on climate and coastal change. 23-24 October 2024, FICOBA, Irun, Spain. <http://www.uhinak.com>

INVITED SEMINARS AND LECTURER IN INTERNATIONAL MASTERS

1. The impact of the sea level rise on Basque coastal habitats throughout the 21st century. Klimagune 2011, Palacio Euskalduna, Bilbao, Spain.
2. Cine Forum sobre Cambio Climático en Euskadi y sus consecuencias del ascenso del nivel del mar, Biblioteca Bidebarrieta, Bilbao, Spain, 18 abril 2012.
3. TED-Biarritz: Incidences climatiques sur l'océan et la côte. October 8th, 2011.
4. Marine habitat mapping using airborne sensors. In PhD lectures: "Integrated assessment of marine environmental quality", Universidad del País Vasco (2006-2007).
5. Coastal water monitoring using remote sensing imagery. In Master Professionnel "Surveillance et Gestion de l'Environnement", Université Paul Sabatier, France (2007-2008).
6. Environmental coastal Monitoring using airborne sensors. In Master Professionnel "Surveillance et Gestion de l'Environnement", Université Paul Sabatier, France (2007-2008).
7. Ecosystem and biodiversity modelling of plankton in warmer oceans. EUR-OCEANS hot topics conference - A changing ocean (6-8 Nov. 2013, PLOCAN, Gran Canaria, Spain).
8. Ecosystem response to sea level rise and global ocean warming. Lecture in the international Master of Marine Environment and Resources. RiMER course, Feb 2014, Aquarium - San Sebastián, Spain.
9. Devotes Summer school: Modelling suitable habitats for species: the case of plankton and seagrasses, 15-17 July 2014, Aquarium - San Sebastián, Spain.
10. Devotes Summer school: Modelling benthic and planktonic communities, including connectivity. 15-17 July 2014, Aquarium - San Sebastián, Spain.
11. Ecosystem response to sea level rise and global ocean warming. Lecture in the international Master of Marine Environment and Resources. RiMER course, Feb 2015, Aquarium - San Sebastián, Spain.
12. Sea Level Rise: evidence and scenarios. Seminario invitado en el "BC3 Summer school: Climate Change, On the Road to Paris", organizado por BC3, Palacio Miramar, San Sebastián, 13 julio 2015.

13. Impactos del cambio climático en biodiversidad, ecosistemas y recursos del litoral. UHINAK, I. Congreso transfronterizo sobre Cambio Climático y Litoral. 6-7 octubre, 2015, Ficoba, Irun.
14. Amenazas en el litoral vasco, Urbanización de la costa, ascenso del nivel del mar, impactos del cambio climático. Charla invitada en "Patrimonio costero, de la información a la acción", organizado por Surfrider. 27 de octubre 2015, Aquarium de San Sebastián.
15. Macroecología: Procesos neutros en biodiversidad marina. Seminario del Màster d'Ecologia i Gestió del Medi Natural de la Universitat de Barcelona, 10 Diciembre 2015, Barcelona.
16. Ecosystem response to sea level rise and global ocean warming. Lecture in the international Master of Marine Environment and Resources. RiMER course, Feb 2016, Aquarium - San Sebastián, Spain.
17. Using niche modelling for studying the impact of climate change on pelagic species. PlankDiv Workshop "Impact of climate change on the distribution of plankton functional and phylogenetic diversity", 14-17 March 2016, Villefranche sur mer, France.
18. Marine ecosystems in a warming ocean. Seminario invitado en el "BC3 Summer school: Climate Change, On the Road to Paris", organizado por BC3, Palacio Miramar, San Sebastián, 13 July 2016.
19. Marine ecosystems in a warming ocean: trends, projections and habitat modelling. Invited seminar and training course (10 h) in Master of Marine Biology at the University of Bologna, Ravenna, Italy, 31 Jan – 2 Feb, 2017.
20. Invited talk in the International Congress on Climate Change and Fisheries (CONXEMAR-FAO), Vigo, Spain, 2 Oct 2017.
21. Evidencias, escenarios y modelización de impactos del cambio climático en Donostia/San Sebastián por ascenso del nivel del mar y oleaje. XIX Congreso y Exposición Internacional de playas -Ecoplayas 2017, Donostia/San Sebastian, 8-10/11/2017.
22. Fisheries and Climate Change. Lecture in the international Master of Marine Environment and Resources. RiMER course, Feb 2018, Aquarium - San Sebastián, Spain.
23. Mare incognitum: el clima futuro de los océanos y su biodiversidad. Conferencia invitada por Aulas de la Experiencia de la UPV-EHU, Campus de Gipuzkoa, Donostia, 04/04/2019.
24. O quecemento do océano e a redistribución dos recursos mariños. Conferencia invitada por FOROACUI, O Grove, Pontevedra, 10-11/10/2019.
25. Ecosystem Response to Global Ocean Warming. Lecture in the international Master of Marine Environment and Resources. RiMER course, Feb 2020, Aquarium - San Sebastián, Spain.
26. La pesca en el golfo de Bizkaia y el cambio climático. Lecture in Summer Courses of the Basque Country University "Curso online en directo - Cómo crear soluciones climáticas: Reserva de la Biosfera de Urdaibai", 25 – 26 June 2020.
27. Contribución de la pesca como paliativo a la evolución del cambio climático. Conferencia invitada en VII Conferencia Internacional ARVI sobre el Futuro de la Pesca "La Pesca ante el cambio climático: Impacto, Adaptación y Mitigación", 14-15 set 2020, online.
28. Ecosystem Response to Global Ocean Warming. Lecture in the international Master of Marine Environment and Resources. RiMER course, Feb 2021, Aquarium - San Sebastián, Spain
29. Ecosystem Response to Global Ocean Warming. Lecture in the international Master of [Marine Environment and Resources](#). RiMER course, Feb 2022, Aquarium - San Sebastián, Spain.
30. Shrinking and moving fish in warming oceans. Invited lecture in the [SIBIC](#) (Sociedad Ibérica de Ictiología) webinar. Feb 9th, 2022.
31. Amplificación de los impactos del calentamiento global a través del ecosistema marino. Invited lecture in "Jornadas para el planeta" within [Basque Environment Ocean WEEK Bilbao](#), 8 June 2022.
32. Ecosystem Response to Global Ocean Warming. Lecture in the international Master of [Marine Environment and Resources](#). RiMER course, Feb 2023, Aquarium - San Sebastián, Spain.
33. Ecosystem Response to Global Ocean Warming. Lecture in the international Master of [Marine Environment and Resources](#). RiMER course, Feb 2023, Aquarium - San Sebastián, Spain.
34. Estratexias de adaptación das pesqueiras de peláxicos ao cambio climático. [VII Jornada de la flota de cerco](#). Acerga, 5 April 2024. Sada, Galicia, Spain.
35. Efectos del calentamiento global presente y futuro sobre las especies pelágicas. [Reunión de Grupo de trabajo de las especies pelágicas e ICCAT](#) - CONSEJO CONSULTIVO PARA LAS AGUAS OCCIDENTALES AUSTRALES (CC SUR), Online, 17 April 2024.
36. Ecosystem Response to Global Ocean Warming. Lecture in the international Master of [Marine Environment and Resources](#). RiMER course, June 2024, PIE (EHU-UPV), Plentzia, Spain.
37. Fisheries and climate change. Invited Lecturer in the international Master of [Marine Environment and Resources](#). RiMER course, February 2025, Aquarium Donostia (EHU-UPV), Donostia, Spain.