

Joan Ballester

Assistant Research Professor

Barcelona Institute for Global Health (ISGlobal)
Barcelona Biomedical Research Park (PRBB)
Carrer Doctor Aiguader 88, Office 186
08003 Barcelona, Catalonia, Spain

(+34) 932147348

joan -|d|o|t| - ballester -|a|t| - isglobal -|d|o|t| - org
www.joanballester.eu
@jbclimate

Last update: February 11, 2019

POSITIONS

Jan'17–present: **Barcelona Institute for Global Health (ISGlobal)** – Barcelona, Catalonia, Spain.

Jan'13–Dec'14: **California Institute of Technology (Caltech)** – Pasadena, California, United States.

Jul'08–Dec'16: **Institut Català de Ciències del Clima (IC3)** – Barcelona, Catalonia, Spain.

Sep'05–Jul'08: **Laboratori de Recerca del Clima (LRC), Parc Científic de Barcelona (PCB)** – Barcelona, Catalonia, Spain.

Feb'05–Jun'05: **Centre National de Recherches Météorologiques (CNRM)** – Toulouse, France.

Sep'03–Feb'04: **Servei Meteorològic de Catalunya (SMC)** – Barcelona, Catalonia, Spain.

EDUCATION

2015–2016: M.Sc. **Financial Markets** ("*Postgrau en Tècniques Quantitatives per als Mercats Financers*") – Universitat Politècnica de Catalunya (UPC) – Barcelona, Catalonia, Spain.

2007–2011: Ph.D. **Climate and Health** – Universitat de Barcelona (UB) – Barcelona, Catalonia, Spain.

2005–2007: M.Sc. **Marine Sciences** ("*Diploma d'Estudis Avançats en Ciències del Mar*") – Universitat de Barcelona (UB) – Barcelona, Catalonia, Spain.

2004–2005: M.Sc. **Ocean, Atmosphere and Continental Surfaces** ("*Master 2 Recherche Océan, Atmosphère et Surfaces Continentales*") – Université Paul Sabatier (UPS) and **MétéoFrance** – Toulouse, France.

2002–2004: M.Sc. **Meteorology and Climatology** ("*Graduat Superior en Meteorologia i Climatologia*") – Universitat de Barcelona (UB) – Barcelona, Catalonia, Spain.

1999–2004: B.Sc. **Mathematics** ("*Llicenciatura en Matemàtiques*") – Universitat Politècnica de Catalunya (UPC) – Barcelona, Catalonia, Spain.

SELECTED PUBLICATIONS

Ballester J, Robine JM, Herrmann FR, Rodó X. Effect of the Great Recession on regional mortality trends in Europe. *Nature Communications* **19**, 679 (2019).

==> Highlighted in *Nature Research Behavioural & Social Sciences Community*.

Achebak H, Devolder D, **Ballester J**. Heat-related mortality trends under recent climate warming in Spain: a 36-year observational study. *PLOS Medicine* **15**, e1002617 (2018).

Ballester J, Petrova D, Bordoni S, Cash B, García-Díez M, Rodó X. Sensitivity of El Niño intensity and timing to preceding subsurface heat magnitude. *Nature Scientific Reports* **6**, 36344 (2016).

Ballester J, Rodó X, Robine JM, Herrmann FR. European seasonal mortality and influenza incidence due to winter temperature variability. *Nature Climate Change* **6**, 927-930 (2016).

==> Highlighted in the magazine issue cover.

Rodó X, Curcoll R, Robinson M, **Ballester J**, Burns JC, Cayan DR, Lipkin WI, Williams BL, Couto-Rodríguez M, Nakamura Y, Uehara R, Tanimoto H, Morguá JA. Tropospheric winds from northeastern China carry the etiologic agent of Kawasaki disease from its source to Japan. *Proceedings of the National Academy of Sciences* **111**, 7952-7957 (2014).

==> Highlighted in *Nature* by Frazer J (2014) Kawasaki disease origin traced to northeast China.

==> Highlighted in *Science* by Wogan T (2014) Mysterious Illness May Be Carried by the Wind.

- Cash BA, Rodó X, **Ballester J**, Bouma MJ, Dhiman R, Pascual M. Malaria epidemics highlight influence of the Tropical South Atlantic on the Indian monsoons. *Nature Climate Change* **3**, 502-507 (2013).
- Rodó X*, **Ballester J***, Cayan D, Melish ME, Nakamura Y, Uehara R, Burns JC. Association of Kawasaki disease with tropospheric wind patterns. *Nature Scientific Reports* **1**, 152 (2011).
- ==> *Highlighted in Nature* by Frazer J (2012) Infectious disease: Blowing in the wind.
- Ballester J**, Robine JM, Herrmann FR, Rodó X. Long-term projections and acclimatization scenarios of temperature-related mortality in Europe. *Nature Communications* **2**, 358 (2011).

* These authors contributed equally to this work

PUBLICATIONS

28. Petrova D, Lowe R, Stewart-Ibarra A, **Ballester J**, Koopman SJ, Rodó X. Sensitivity Analysis of the Effect of Long-Lead El Niño Forecasts on the Estimation of Dengue Epidemics in Ecuador: Coupling of a Dengue and El Niño Model. *Climate Services*, in press (2019).
27. **Ballester J**, Robine JM, Herrmann FR, Rodó X. Effect of the Great Recession on regional mortality trends in Europe. *Nature Communications* **19**, 679 (2019).
26. Achebak H, Devolder D, **Ballester J**. Heat-related mortality trends under recent climate warming in Spain: a 36-year observational study. *PLOS Medicine* **15**, e1002617 (2018).
25. **Ballester J**, Petrova D, Bordoni S, Cash B, Rodó X. Timing of subsurface heat magnitude for the growth of El Niño events. *Geophysical Research Letters* **44**, 8501-8509 (2017).
24. Petrova D, Koopman SJ, **Ballester J**, Rodó X. Improving the long-lead predictability of El Niño using a novel forecasting scheme based on a dynamic components model. *Climate Dynamics* **48**, 1249-1276 (2017).
23. García-Díez M, Lauwater D, Hooybergh H, **Ballester J**, De Ridder K, Rodó X. Advantages of using a fast urban boundary layer model as compared to a full mesoscale model to simulate the urban heat island of Barcelona. *Geoscientific Model Development* **9**, 4439-4450 (2016).
22. **Ballester J**, Petrova D, Bordoni S, Cash B, García-Díez M, Rodó X. Sensitivity of El Niño intensity and timing to preceding subsurface heat magnitude. *Nature Scientific Reports* **6**, 36344 (2016).
21. Grossi C, **Ballester J**, Serrano I, Galmarini S, Camacho A, Curcoll R, Morguá JA, Rodó X, Duch MA. Influence of long-range atmospheric transport pathways and climate teleconnection patterns on the variability of surface ²¹⁰Pb and ⁷Be concentrations in southwestern Europe. *Journal of Environmental Radioactivity* **165**, 103-114 (2016).
20. Rodó X, **Ballester J**, Curcoll R, Boyard-Micheau J, Borràs S, Morguá JA. Revisiting the role of environmental and climate factors on the epidemiology of Kawasaki disease. *Annals of the New York Academy of Sciences* **1382**, 84-98 (2016).
19. **Ballester J**, Bordoni S, Petrova D, Rodó X. El Niño dynamics and long lead climate forecasts. *Climanosco* (2016).
18. **Ballester J**, Rodó X, Robine JM, Herrmann FR. European seasonal mortality and influenza incidence due to winter temperature variability. *Nature Climate Change* **6**, 927-930 (2016).
17. **Ballester J***, Lowe R*, Diggle P, Rodó X. Seasonal forecasting and health impact models: challenges and opportunities. *Annals of the New York Academy of Sciences* **1382**, 8-20 (2016).
16. **Ballester J**, Bordoni S, Petrova D, Rodó X. Heat advection processes leading to El Niño events as depicted by an ensemble of ocean assimilation products. *Journal of Geophysical Research: Oceans* **121**, 3710-3729 (2016).
15. Lowe R, García Díez M, **Ballester J**, Creswick J, Robine JM, Herrmann FR, Rodó X. Evaluation of an Early-Warning System for Heat Wave-Related Mortality in Europe: Implications for Sub-seasonal to Seasonal Forecasting and Climate Services. *International Journal of Environmental Research and Public Health* **13**, 206 (2016).
14. **Ballester J**, Bordoni S, Petrova D, Rodó X. On the dynamical mechanisms explaining the western Pacific subsurface temperature buildup leading to ENSO events. *Geophysical Research Letters* **42**, 2961-2967 (2015).
13. Lowe R, **Ballester J**, Creswick J, Robine JM, Herrmann FR, Rodó X. Evaluating the performance of a climate-driven mortality model during heat waves and cold spells in Europe. *International Journal of Environmental Research and Public Health* **12**, 1279-1294 (2015).
12. Rodó X, Curcoll R, Robinson M, **Ballester J**, Burns JC, Cayan DR, Lipkin WI, Williams BL, Couto-Rodriguez M, Nakamura Y, Uehara R, Tanimoto H, Morguá JA. Tropospheric winds from northeastern China carry the etiologic agent of Kawasaki disease from its source to Japan. *Proceedings of the National Academy of Sciences* **111**, 7952-7957 (2014).
11. **Ballester J**, Burns JC, Cayan D, Nakamura Y, Uehara R, Rodó X. Kawasaki disease and ENSO-driven wind circulation. *Geophysical Research Letters* **40**, 2284-2289 (2013).
10. Cash BA, Rodó X, **Ballester J**, Bouma MJ, Dhiman R, Pascual M. Malaria epidemics highlight influence of the Tropical South Atlantic on the Indian monsoons. *Nature Climate Change* **3**, 502-507 (2013).

09. Ostro B, Barrera-Gómez J, **Ballester J**, Basagaña X, Sunyer J. The Impact of Future Summer Temperature on Public Health in Barcelona and Catalonia, Spain. *International Journal of Biometeorology* **56**, 1135-1144 (2012).
08. Rodó X*, **Ballester J***, Cayan D, Melish ME, Nakamura Y, Uehara R, Burns JC. Association of Kawasaki disease with tropospheric wind patterns. *Nature Scientific Reports* **1**, 152 (2011).
07. **Ballester J**, Robine JM, Herrmann FR, Rodó X. Long-term projections and acclimatization scenarios of temperature-related mortality in Europe. *Nature Communications* **2**, 358 (2011).
06. **Ballester J**, Rodríguez-Arias MA, Rodó X. A new extratropical tracer describing the role of the western Pacific in the onset of El Niño: Implications for ENSO understanding and forecasting. *Journal of Climate* **24**, 1425-1437 (2011).
05. **Ballester J**, Rodó X, Giorgi F. Future changes in Central Europe heat waves expected to mostly follow summer mean warming. *Climate Dynamics* **35**, 1191-1205 (2010).
04. **Ballester J**, Giorgi F, Rodó X. Changes in European temperature extremes can be predicted from changes in PDF central statistics. *Climatic Change - Letters* **98**, 277-284 (2010).
03. **Ballester J**, Douville H, Chauvin F. Present-day climatology and projected changes of warm and cold days in the CNRM-CM3 global climate model. *Climate Dynamics* **32**, 35-54 (2009).
02. **Ballester J**, Moré J. The representativeness problem of a station net applied to the verification of a precipitation forecast based on areas. *Meteorological Applications* **14**, 177-184 (2007).
01. Rodó X, Rodríguez-Arias MA, **Ballester J**. The role of ENSO in fostering teleconnection patterns between the tropical north Atlantic and the western Mediterranean Basin. *CLIVAR Exchanges* **11**, 26-27 (2006).

* These authors contributed equally to this work

PROJECTS AS PRINCIPAL INVESTIGATOR

-
- Dec'16–Feb'21*: Project name: Arctic Impact on Weather and Climate (Blue-Action). Call: Horizon 2020's Blue Growth - Demonstrating an Ocean of Opportunities (H2020-BG-2016-2017). Funding Institution: European Commission. Center: Barcelona Institute for Global Health (ISGlobal). Budget (total): 215,000.00€ (7,500,000.00€).
- Jun'17–Nov'19*: Project name: Pan-European Urban Climate Service (PUCS). Call: Horizon 2020's Exploiting the added value of climate services - Demonstration of climate services (SC5-01-2016-2017). Funding Institution: European Commission. Center: Barcelona Institute for Global Health (ISGlobal). Budget (total): 319,375.00€ (3,514,416.25€).
- Oct'17–Sep'19*: Project name: Acclimatization scenarios and early warning system of temperature-related mortality in Europe (ACCLIM). Call: Horizon 2020's Marie Skłodowska-Curie Individual Fellowships (H2020-MSCA-IF-2016). Funding Institution: European Commission. Center: Barcelona Institute for Global Health (ISGlobal). Budget: 158,121.60€.
- Oct'15–Sep'17*: Project name: Climate change projections and adaptation scenarios of temperature-related mortality in Europe. Call: Seventh Framework Programme's Marie Skłodowska-Curie COFUND Beatriu de Pinós (BP-DGR-2014). Funding Institution: European Commission and Catalan Government. Center: Institut Català de Ciències del Clima (IC3). Budget: 91,022.40€.
- Jan'13–Dec'15*: Project name: Modulating mechanisms of the onset of El Niño events (MEMENTO). Call: Seventh Framework Programme's Marie Skłodowska-Curie International Outgoing Fellowships (FP7-PEOPLE-2011-IOF). Funding Institution: European Commission. Centers: California Institute of Technology (Caltech) and Institut Català de Ciències del Clima (IC3). Budget: 256,206.00€.

FUNDED SUPERVISING EXPERIENCE AS PRINCIPAL INVESTIGATOR

-
- Sep'16–Aug'18*: Call: Juan de la Cierva, Formación (FJCI-2015-25990). Funding Institution: Ministerio de Economía y Competitividad. Center: Institut Català de Ciències del Clima (IC3). Budget: 50,000.00€. Advised: Markel García-Díez.

PARTICIPATION IN PROJECTS

-
- Dec'15–Dec'18*: Project name: Aerial micro-biome diversity and their role in Kawasaki disease (WINDBIOME). Call: Proyectos pediátricos. Funding Institution: Fundació Privada Daniel Bravo. Center: Institut Català de Ciències del Clima (IC3). Budget (total): 234,000.00€ (300,000.00€).
- May'16–Jul'17*: Project name: Sector Engagement for C3S, Translating European User Requirements (SECTEUR). Call: Evaluation and Quality Control Function for the Sectoral Information System (C3S_52). Funding Institution: Copernicus Climate Change Service (C3S), European Centre for Medium-Range Weather Forecasts (ECMWF). Center: Institut Català de Ciències del Clima (IC3). Budget (total): 160,778.48€ (2,224,781.65€).

- Nov'12–Jan'17*: Project name: European Provision of Regional Impact Assessment on a Seasonal-to-decadal timescales (EUPORIAS). Call: Seventh Framework Programme's Environment Cooperation Area. Funding Institution: European Commission. Center: Institut Català de Ciències del Clima (IC3). Budget (total): 479,351.16€ (13,048,572.00€).
- Jan'12–Dec'16*: Project name: Dengue Research Framework for Resisting epidemics in Europe (DENFREE). Call: Seventh Framework Programme's Health Cooperation Area. Funding Institution: European Commission. Center: Institut Català de Ciències del Clima (IC3). Budget (total): 387,666.34€ (8,447,902.00€).
- Mar'11–Feb'14*: Project name: Climate Local Information in the Mediterranean region: Responding to User Needs (CLIM-RUN). Call: Seventh Framework Programme's Environment Cooperation Area. Funding Institution: European Commission. Center: Institut Català de Ciències del Clima (IC3). Budget (total): 404,436.78€ (4,680,341.00€).
- Mar'09–Feb'12*: Project name: Kawasaki Disease: Disentangling the role of Climate in the outbreaks. Call: La Marató de TV3. Funding Institution: Fundació La Marató de TV3. Center: Institut Català de Ciències del Clima (IC3). Budget: 196,250.00€.
- Apr'07–Jun'11*: Project name: Climate Change and Impact Research: Mediterranean Environment (CIRCE). Call: Sixth Framework Programme's Sustainable Development, Global Change and Ecosystems (FP6-2005-GLOBAL-4). Funding Institution: European Commission. Center: Laboratori de Recerca del Clima (LRC), Parc Científic de Barcelona (PCB). Budget (total): 110,000.00€ (13,730,066.00€).
- Oct'07–Sep'10*: Project name: Predicción climática estacional en el área mediterránea combinando multimodelos dinámicos, proyecciones estadísticas, modelos oceánicos regionales y experimentos climáticos tipo marcapasos (PANDORA). Call: Proyectos I+D. Funding Institution: Ministerio de Medio Ambiente. Center: Laboratori de Recerca del Clima (LRC), Parc Científic de Barcelona (PCB). Budget: 104,060.00€.

PERSONAL FELLOWSHIPS

- Jun'09–Aug'09*: Call: University computing requests for NSF-supported university projects (#37461043). Funding Institution: National Center for Atmospheric Research (NCAR), Computational & Information Systems Laboratory (CISL). Center: Center for Ocean-Land-Atmosphere Studies (COLA). Advisor: Ben Cash.
- Jun'09–Aug'09*: Call: Mobility grants for pre-doctorate researchers (2008 BE2 00033). Funding Institution: Catalan Government. Center: Center for Ocean-Land-Atmosphere Studies (COLA). Advisor: Ben Cash.
- Jan'08–Apr'08*: Call: ESF Mobility Exchange Grant #1464. Funding Institution: European Science Foundation (ESF). Center: The Abdus Salam International Centre for Theoretical Physics (ICTP). Advisor: Filippo Giorgi.
- Jul'07–Jun'10*: Call: Grants for universities and research centers for the recruitment of new research personnel (2007FI 00496). Funding Institution: Catalan Government. Center: Laboratori de Recerca del Clima (LRC). Advisor: Xavier Rodó.
- Nov'05–Jul'07*: Call: Pre-doctorate grants for collaboration in research projects (PCB C13/05-N1). Funding Institution: Parc Científic de Barcelona (PCB). Center: Laboratori de Recerca del Clima (LRC). Advisor: Xavier Rodó.
- Sep'05–Aug'08*: Call: Grants for pre-doctorate research in climatology. Funding Institution: Centre National de Recherches Météorologiques (CNRM). The applicant renounced to this grant due to the incompatibility with another fellowship.
- Feb'04–Jun'04*: Call: European Community Action Scheme for the Mobility of University Students (ERASMUS). Funding Institution: European Commission. Center: University of Sheffield.

MEETINGS, WORKSHOPS AND INVITED TALKS

81. *Apr'19*: EGU General Assembly 2019 – Petrova D, Ballester J, Jan Koopman S, Bordoni S, Cash B, García-Díez M, Rodó X – El Niño Predictability and The Western Pacific Heat Buildup – European Geosciences Union (EGU), Vienna, Austria.
80. *Dec'18*: First Global Forum on Heat and Health – Ballester J, Achebak H, Herrmann FR, Robine JM, Rodó X – Recent Trends in Temperature, Vulnerability and Heat-Attributable Mortality in Europe – Hong Kong, China.
79. *Dec'18*: General Assembly of the PUCS Project – Deluca A, Marí Dell'Olmo M, Ingole V, Quijal M, Ballester J – Heat Health Climate Service for Barcelona and London – Prague, Austria.
78. *Nov'18*: General Assembly of the Blue-Action Project – Ballester J – Work progress in the Temperature-Related Mortality case study – Almada, Portugal.

77. *Nov'18*: Demonstration Workshop of the PUCS Project – Ballester J, Marí Dell'Olmo M, Deluca A, Ingole V, Basagaña X, Quijal M, Gilabert J – Heat Health Climate Service for Barcelona – Agència de Salut Pública de Barcelona (ASPB), Barcelona, Catalonia, Spain.
76. *Nov'18*: Scientific Workshop on Climate Change in Catalonia – Ballester J, Marí Dell'Olmo M, Deluca A, Ingole V, Basagaña X, Quijal M, Gilabert J – Heat and mortality in Barcelona with an urban climate model – Barcelona City Council, Barcelona, Catalonia, Spain.
75. *Sep'18*: 25th European Pediatric Rheumatology Congress – Rodó X, Borrás S, Kojima T, Curcoll R, Ballester J, Moreno T, Matsuki A, Morguá JA, International Kawasaki Disease Consortium – What the Variability and Cycles in Kawasaki Disease are Telling Us on the Nature of this Pediatric Vasculitis – Pediatric Rheumatology European Society (PReS), Lisbon, Portugal.
74. *Sep'18*: 25th European Pediatric Rheumatology Congress – Rodó X, Boyard-Micheau J, Borrás S, Cayan D, Burns J, Nakamura Y, Sánchez Manubens J, Anton J, Morguá JA, Curcoll R, Ballester J, International Kawasaki Disease Consortium – Worldwide Coherence of Association of Kawasaki Disease to Massive Agricultural Cropland Byproducts – Pediatric Rheumatology European Society (PReS), Lisbon, Portugal.
73. *Aug'18*: ISES-ISEE 2018 Joint Annual Meeting – Achebak H, Devolder D, Ballester J – Heat-related mortality trends under recent climate warming in Spain: a 36-year observational study – International Society of Exposure Science (ISES) and International Society for Environmental Epidemiology (ISEE), Ottawa, Canada.
72. *Aug'18*: ISES-ISEE 2018 Joint Annual Meeting – Ballester J, Robine JM, Herrmann FR, Rodó X – The 2008 recession, human mortality and its changing relationship with daily temperatures in Europe – International Society of Exposure Science (ISEE) and International Society for Environmental Epidemiology (ISEE), Ottawa, Canada.
71. *Jun'18*: General Assembly of the PUCS Project – Ballester J, Marí Dell'Olmo M, Ingole V, Deluca A, Quijal M – Heat Health Climate Service for Barcelona – Leuven, Brussels.
70. *Jun'18*: European Population Conference 2018 – Achebak H, Devolder D, Ballester J – Climate Warming and Summer Heat-Related Mortality in Spain – European Association for Population Studies (EAPS), Brussels, Belgium.
69. *Jun'18*: AOGS 15th Annual Meeting – Petrova D, Ballester J, Koopman SJ, Bordoni S, Cash B, García-Díez M, Rodó X – The Western Pacific Heat Buildup and Its Effect on ENSO Diversity: Implications for the Timing, Magnitude and Prediction of El Niño – Asia Oceania Geosciences Society (AOGS), Honolulu, Hawaii, United States.
68. *Apr'18*: IASC Workshop on Knowledge Gaps of Cryospheric Extremes – Ballester J – Cold Spells and Human Mortality – International Arctic Science Committee (IASC), Finnish Meteorological Institute, Helsinki, Finland.
67. *Jan'18*: General Assembly of the Blue-Action Project – Ballester J – Work progress in the Temperature-Related Mortality case study – Bologna, Italy.
66. *Dec'17*: AGU Fall Meeting 2017 – Ballester J, Rodó X, Robine JM, Herrmann FR – European seasonal mortality and influenza incidence due to winter temperature variability – American Geophysical Union (AGU), New Orleans, Louisiana, United States.
65. *Dec'17*: General Assembly of the PUCS Project – Ballester J, Marí Dell'Olmo M, Ingole V – Work Progress in the Health Case Study – Graz, Austria.
64. *Nov'17*: Climate Services at Work, Projects Exchange and Networking Lab – European Commission, Directorate General for Research and Technological Development, Brussels, Belgium.
63. *Sep'17*: Stakeholder Mapping Workshop of the PUCS Project – Ballester J, Marí Dell'Olmo M – Heat Health Climate Service for Barcelona – Agència de Salut Pública de Barcelona (ASPB), Barcelona, Catalonia, Spain.
62. *Aug'17*: 2017 Community Earth System Model (CESM) Tutorial – National Center for Atmospheric Research (NCAR), Boulder, Colorado, United States.
61. *Jul'17*: Climate Services Meeting of the Blue-Action Project – Ballester J – The Temperature-Related Mortality Case Study in Blue-Action – Climate Service Center Germany (GERICS), Hamburg, Germany.
60. *Jun'17*: 21st Conference on Atmospheric and Oceanic Fluid Dynamics – Petrova D, Ballester J, Koopmans S, Bordoni S, Cash B, García-Díez M, Rodó X – Role of the Western Pacific Heat Buildup for the Timing, Magnitude and Prediction of ENSO – American Meteorological Society (AMS), Portland, Oregon, United States.
59. *Jun'17*: Kick-off Meeting of the PUCS Project – Ballester J – The Temperature-Related Mortality Case Study in PUCS – Antwerp, Belgium.
58. *Jun'17*: 3rd ECCA Conference – Miller R, Payne M, Kiel K, Kolstad E, Ballester J, Lesser P, Vangsbo P – Translating advances in Arctic climate science to climate services across the Northern Hemisphere – European Climate Change Adaptation (ECCA), Glasgow, United Kingdom.

57. *May'17*: Impact of Environmental Changes on Infectious Diseases 2017 – Petrova D, Lowe R, Stewart-Ibarra A, Ballester J, Koopman SJ, Rodó X – Long-Lead El Niño Forecasts to Inform Public Health Decision Support Systems: Application to Predict Dengue in El Oro, Ecuador – The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
56. *Mar'17*: ISGlobal Scientific Seminars – Ballester J – Linkages between climate variability, predictability, impacts and services – Barcelona Institute for Global Health (ISGlobal), Barcelona, Catalonia, Spain.
55. *Mar'17*: Copernicus Climate Change Service General Assembly – Deluca A, Ballester J, Lowe R, Rodó X – Shaping the Copernicus Climate Change Service to provide fit-for-purpose information for decision-making for Health – MétéoFrance, Toulouse, France.
54. *Feb'17*: Fifth International Conference on Climate Services – Petrova D, Lowe R, Stewart-Ibarra A, Ballester J, Koopman SJ, Rodó X – Climate services for the health sector: long-lead El Niño forecasts to predict dengue risk in El Oro, Ecuador – Climate Services Partnership, Cape Town, South Africa.
53. *Feb'17*: Fifth International Conference on Climate Services – Deluca A, Ballester J, Rodó X, and the SECTEUR consortium – Shaping the Copernicus Climate Change Service to provide fit-for-purpose information for decision-making within the Health Sector – Climate Services Partnership, Cape Town, South Africa.
52. *Feb'17*: Fifth International Conference on Climate Services – Lowe R, Ballester J, García-Díez M, Creswick J, Robine JM, Herrmann FR, Rodó X – Development of an early warning system for heat wave related mortality in Europe: key outcomes and lessons learnt – Climate Services Partnership, Cape Town, South Africa.
51. *Feb'17*: Fifth International Conference on Climate Services – Ballester J, Rodó X, Deluca A, and the BLUE-ACTION and PUCS consortia – Forecast Scheme of Temperature-Related Mortality for decision-making in European Regions and Cities – Climate Services Partnership, Cape Town, South Africa.
50. *Jan'17*: Kick-off Meeting of the Blue-Action Project – Ballester J – The Temperature-Related Mortality Case Study in Blue-Action – Max Planck Institute, Berlin, Germany.
49. *Nov'16*: 2016 ASTMH Annual Meeting – Petrova D, Lowe R, Stewart-Ibarra A, Ballester J, Koopman SJ, Rodó X – Long-Lead El Niño Forecast Information to Support Public Health Decision Making: Application to Dengue Epidemics in Ecuador – American Society of Tropical Medicine and Hygiene (ASTMH), Atlanta, Georgia, United States.
48. *Oct'16*: MedECC Scoping Workshop – Ballester J – Climate Change Projections and Early Warning Systems of Temperature-Related Mortality – Mediterranean Experts on Climate and Environmental Change (MedECC), Aix-en-Provence, France.
47. *Jul'16*: Modeling of the Climate and the Relation between Temperature and Mortality – Ballester J – Action Plan to Avoid the Effects of Heat Waves on Health – Agència de Salut Pública de Catalunya (ASPCAT), Barcelona, Catalonia, Spain.
46. *Jun'16*: Risk Evaluation of the Introduction of the Zika virus in Catalonia – Ballester J – Climate Factors Determining the Spread of the Zika Virus – Institut de Salut Global (ISGlobal), Barcelona, Catalonia, Spain.
45. *Jun'16*: Kick Off Meeting of the SECTEUR project – Ballester J, Rodó X, Lowe R, Deluca A – Contribution of the Health Sector – University of Reading, Reading, United Kingdom.
44. *Jun'16*: Health and Climate Colloquium 2016 – Petrova D, Lowe R, Stewart-Ibarra A, Ballester J, Koopman SJ, Rodó X – Long-Lead El Niño Forecast Information to Support Public Health Decision Making – International Research Institute for Climate and Society (IRI), Palisades, New York, United States.
43. *Jun'16*: 36th International Symposium on Forecasting – Petrova D, Koopman SJ, Ballester J, Rodó X – Improved Forecasting of El Niño-Southern Oscillation with a Novel Structural Time Series Model – International Institute of Forecasters (IIF), Santander, Spain.
42. *Apr'16*: EGU General Assembly 2016 – Lowe R, García-Díez M, Ballester J, Creswick J, Robine JM, Herrmann FR, Rodó X – Evaluation of an early warning system for heat wave related mortality in Europe: implications for seasonal forecasting and climate services – European Geosciences Union (EGU), Vienna, Austria.
41. *Apr'16*: EGU General Assembly 2016 – García-Díez M, Lauwater D, Hooybergh H, Ballester J, De Ridder K, Rodó X – Do we need full mesoscale models to simulate the urban heat island? A study over the city of Barcelona – European Geosciences Union (EGU), Vienna, Austria.
40. *Apr'16*: EGU General Assembly 2016 – Petrova D, Koopman SJ, Ballester J, García-Díez M, Rodó X – Improving the Long-Lead Predictability of El Niño Using a Novel Forecasting Scheme Based on a Dynamic Components Model – European Geosciences Union (EGU), Vienna, Austria.
39. *Apr'16*: EGU General Assembly 2016 – Ballester J, Bordoni S, Petrova D, García-Díez M, Rodó X – Sensitivity of El Niño intensity and timing to the magnitude of the subsurface heat buildup – European Geosciences Union (EGU), Vienna, Austria.

38. *Nov'15*: Fall school on Statistical and mathematical tools for the study of climate extremes – Ballester J, Robine JM, Herrmann FR, Rodó X – Long-term projections and acclimatization scenarios of temperature-related mortality in Europe – Institut d'Études Scientifiques, Cargèse, France.
37. *Oct'15*: Inte Seminar – Grossi C, Serrano I, Camacho A, Ballester J, Morguá JA, Rodó X, Duch MA – Analysis of the relationship between climatic phenomena and atmospheric variability of ⁷Be and ²¹⁰Pb concentrations in northeastern Spain – Institut de Tècniques Energètiques (Inte), Barcelona, Catalonia, Spain.
36. *Oct'15*: 1st Ocean2k Workshop – Ballester J – Heat stress, temperature-related mortality and human adaptation – Cosmocaixa, Barcelona, Catalonia, Spain.
35. *Oct'15*: NAACLIM General Assembly 2015 – Ballester J, Lowe R, García Díez M, Rodó X – Temperature-Related Mortality: Modelling and Prediction from the Continental to the Urban Scale – NAACLIM, Almada, Portugal.
34. *Sep'15*: EUPORIAS General Assembly 2015 – Lowe R, García-Díez M, Ballester J, Creswick J, Robine JM, Herrmann FR, Rodó X – Evaluating the performance of a mortality model driven by an ensemble of seasonal climate forecasts – EUPORIAS, Winterthur, Switzerland.
33. *Sep'15*: ENVIRA 2015 – Grossi C, Serrano I, Camacho A, Ballester J, Morguá JA, Rodó X, Duch MA – Analysis of the relationship between climatic phenomena and atmospheric variability of ⁷Be and ²¹⁰Pb concentrations in northeastern Spain – IAEA and IUR, Thessaloniki, Greece.
32. *Sep'15*: 15th EMS Annual Meeting – A study of the Urban Heat Island of Barcelona using a fast urban climate model – García-Díez M, Ballester J, De Ridder K, Rodó X – European Meteorological Society (EMS), Sofia, Bulgaria.
31. *Jul'15*: Our Common Future Under Climate Change – Ballester J, Robine JM, Herrmann FR, Rodó X – Will climate warming decrease winter mortality in Europe? – ICSU, Future Earth and UNESCO, Paris, France.
30. *May'15*: Human Health in the Face of Climate Change: Science, Medicine, and Adaptation – Ballester J, Robine JM, Herrmann FR, Rodó X – Long-term projections and acclimatization scenarios of temperature-related mortality in Europe – New York Academy of Sciences, Barcelona, Catalonia, Spain.
29. *May'15*: Human Health in the Face of Climate Change: Science, Medicine, and Adaptation – Ballester J, Robine JM, Herrmann FR, Rodó X – Will climate warming decrease winter mortality in Europe? – New York Academy of Sciences, Barcelona, Catalonia, Spain.
28. *Apr'15*: EGU General Assembly 2015 – Ballester J, Bordoni S, Petrova D, Rodó X – On the relative role of meridional convergence and downwelling motion during the heat buildup leading to El Niño events – European Geosciences Union (EGU), Vienna, Austria.
27. *Apr'15*: EGU General Assembly 2015 – Lowe R, Ballester J, Creswick J, Robine JM, Herrmann FR, Rodó X – A climate-driven mortality modelling tool for Europe – European Geosciences Union (EGU), Vienna, Austria.
26. *Apr'15*: EGU General Assembly 2015 – Petrova D, Koopman SJ, Ballester J, Rodó X – Structural Time Series Model for El Niño Prediction – European Geosciences Union (EGU), Vienna, Austria.
25. *Apr'15*: EGU General Assembly 2015 – Curcoll Masanes R, Rodó X, Anton J, Ballester J, Jornet A, Nofuentes M, Sanchez-Manubens J, Morguá JA – Use of Lagrangian transport models and Sterilized High Volume Sampling to pinpoint the source region of Kawasaki disease and determine the etiologic agent – European Geosciences Union (EGU), Vienna, Austria.
24. *Apr'15*: CED Seminar – Ballester J, Robine JM, Herrmann FR, Rodó X – Will climate warming decrease winter mortality in Europe? – Centre d'Estudis Demogràfics (CED), Bellaterra, Catalonia, Spain.
23. *Jan'15*: Fifth Data without Boundaries Training Course – Centre d'Estudis Demogràfics (CED), Bellaterra, Catalonia, Spain.
22. *Dec'14*: AGU Fall Meeting 2014 – Ballester J, Bordoni S, Petrova D, Rodó X – Ocean-atmosphere mechanisms explaining the heat buildup leading to El Niño events – American Geophysical Union (AGU), San Francisco, California, United States.
21. *Nov'14*: 2nd International Ocean Research Conference – Petrova D, Koopman SJ, Ballester J, Rodó X – Unobserved Components Time Series Model for ENSO Prediction – Intergovernmental Oceanographic Commission of UNESCO, Barcelona, Catalonia, Spain.
20. *Apr'14*: EGU General Assembly 2014 – Lowe R, Ballester J, Creswick J, Robine JM, Herrmann FR, Rodó X – A decision support service for temperature-related mortality in Europe – European Geosciences Union (EGU), Vienna, Austria.
19. *Mar'14*: Environmental Science and Engineering Dynamics Group Seminar – Ballester J, Bordoni S, Petrova D, Rodó X – On the equatorial subsurface temperature buildup linking opposite ENSO events – California Institute of Technology (Caltech) – Pasadena, California, United States.

18. *Feb'14*: Ocean Sciences Meeting 2014 – Ballester J, Bordoni S, Petrova D, Rodó X – On the equatorial subsurface temperature buildup linking opposite ENSO events – American Geophysical Union (AGU), Honolulu, Hawaii, United States.
17. *Feb'14*: Ocean Sciences Meeting 2014 – Petrova D, Koopman SJ, Ballester J, Rodó X – Forecasting El Niño Using Unobserved Components Time Series Models – American Geophysical Union (AGU), Honolulu, Hawaii, United States.
16. *Dec'13*: AGU Fall Meeting 2013 – Lowe R, Ballester J, Robine JM, Herrmann FR, Jupp TE, Stephenson DB, Rodó X – A novel visualisation tool for climate services: a case study of temperature extremes and human mortality in Europe – American Geophysical Union (AGU), San Francisco, California, United States.
15. *Jan'13*: 93rd AMS Annual Meeting – Cayan D, Bainto E, Herzog L, Fabri OA, Uehara R, Burgner D, Ballester J, Rodó X, Burns JC, Tyree M, Paolini J, and the International Kawasaki Disease Climate Consortium – Association of Kawasaki Disease with Tropospheric Wind Patterns – American Meteorological Society (AMS), Austin, Texas, United States.
14. *Feb'12*: 10th International Kawasaki Disease Symposium – Cayan D, Bainto E, Herzog L, Fabri OA, Uehara R, Burgner D, Ballester J, Rodó X, Burns JC, Tyree M, Paolini J, and the International Kawasaki Disease Climate Consortium – An Apparent Seasonal Cycle in the Occurrence of Kawasaki Disease over the Globe – Hyatt Regency Kyoto, Kyoto, Japan.
13. *Mar'11*: Workshop on Drought Predictability and Prediction in a Changing Climate – Cosmocaixa, Barcelona, Catalonia, Spain.
12. *Sep'10*: Workshop on Kawasaki Disease – Ballester J, Rodó X – Interannual anomalies of Kawasaki Disease in Japan – Institut Català de Ciències del Clima (IC3), Barcelona, Catalonia, Spain.
11. *Jun'10*: INSERM Seminar – Ballester J, Rodó X – Projections of Temperature-Related Mortality – Institut National de la Santé et de la Recherche Médicale (INSERM), Montpellier, France.
10. *Nov'09*: Scientific Sessions PRBB – Ballester J, Rodó X – Scenario Changes in European Temperature Extremes – Centre de Recerca en Epidemiologia Ambiental (CREAL), Barcelona, Catalonia, Spain.
09. *Aug'09*: GFDL Seminar – Ballester J, Rodó X – Scenario Changes in European Temperature Extremes – Geophysical Fluid Dynamics Laboratory (GFDL), Princeton, New Jersey, United States.
08. *Apr'08*: Earth System Physics Seminar – Ballester J, Rodó X, Giorgi F – Regional Extremes and Climate Predictability in Europe – The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
07. *Mar'08*: 4th Workshop on the Theory and Use of Regional Climate Models – The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
06. *Jul'07*: Transferable and Professional Challenges in Cross-Scientific Global Climate Research, A Summer School for European Research Leaders of the Future – Ballester J – Climate predictability in Europe – Coimbra Group, University of Bergen, Bergen, Norway.
05. *Jun'07*: WCRP Workshop on Seasonal Prediction – Ballester J, Rodó X, Cash B – Potential sources of seasonal climate predictability in the Mediterranean basin – World Climate Research Programme (WCRP), Barcelona, Catalonia, Spain.
04. *Apr'07*: EGU General Assembly 2007 – Ballester J, Rodó X, Cash B – Potential sources of seasonal climate predictability in the Mediterranean basin – European Geosciences Union (EGU), Vienna, Austria.
03. *Nov'06*: New and Re-emerging Diseases, Populations and Climate – Cosmocaixa, Barcelona, Catalonia, Spain.
02. *May'06*: 3rd Workshop on the Theory and Use of Regional Climate Models – The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
01. *Mar'06*: Jornadas del Ministerio de Medio Ambiente – Ballester J, Rodó X – Generación de escenarios de cambio climático regional – Ministerio de Medio Ambiente, Madrid, Spain.

OTHER MERITS

Referee in peer-reviewed journals: Nature, Nature Climate Change, PLOS Medicine, The Lancet Planetary Health, Nature Scientific Reports, International Journal of Epidemiology, Climate Dynamics, Bulletin of the American Meteorological Society, Climatic Change, Environmental Research Letters, International Journal of Climatology, Science of the Total Environment.

Committee member of the dissertation defense "Effectiveness of the Spanish plan to prevent the health effects of high temperatures" by Èrica Martínez Solanas, Universitat Pompeu Fabra (UPF).

Academic experience (Dec'05): Human dimensions of Global Change, UNESCO Chair, Universitat Politècnica de Catalunya, Barcelona, Catalonia, Spain.

Summer school (Jul'07): Transferable and Professional Challenges in Cross-Scientific Global Climate Research, A Summer School for European Research Leaders of the Future, Coimbra Group, University of Bergen, Bergen, Norway.

Languages: Catalan and Spanish (mother tongues), English and French (fluent), Italian (basic skills).