

PERSONAL INFORMATION



Maria-Helena RAMOS

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Nationalities Brazilian and Portuguese

POSITION

Research scientist (*Directrice de recherche, HDR*) at INRAE

National Research Institute for Agronomic Research and the Environment

Institut national de la recherche agronomique et de l'environnement; <https://www.inrae.fr/>

Associated with Université Paris-Saclay

** INRAE was created on 1 January 2020, from the merger of Irstea and INRA*

WORK EXPERIENCE

Since November 2007

Research scientist in hydrology and hydrometeorology

INRAE (Cemagref/IRSTEA, from 2007 to 2019), Université Paris-Saclay, Antony (Paris), France

Occasional lecturer in Hydrology

Sorbonne Université, PolyTech Sorbonne, EIVP, École Polytechnique, Paris, France

From Dec. 2006
to Oct. 2007

Research associate in hydrology and applied climatology

IRSTEA (formerly Cemagref), Lyon, France

From Apr. 2005
to Nov. 2006

Post-doctoral researcher on flood forecasting and warning using ensemble prediction systems (European Flood Awareness System)

European Commission, DG JRC, IES, Ispra, Italy

From Jan. 2003
to Mar. 2005

Post-doctoral researcher and contractual agent on space-time variability of rain fields for hydrological applications

IRSTEA (formerly Cemagref), Lyon, France

From Jan. 1998
to Jun. 1998

Lecturer in hydrology

FEAMIG Engineering school, Belo Horizonte, Brazil

Aug. – Dec. 2002;

Feb. – Jun. 1998 ; 1994 – 1995

Engineer in hydrology and water resources

Golder Associates, ESC and ENGEO, Belo Horizonte, Brazil

EDUCATION AND DEGREES

2018

HDR French Habilitation (*Habilitation à Diriger des Recherches*)

Sorbonne Université, Paris, France. Thesis defended on 6 April 2018.

From Sep. 1998
to Jun. 2002

Ph.D. Atmospheric and Earth Sciences

Université Joseph Fourier Grenoble I, LTHE, Grenoble, France. Thesis defended on 27 June 2002.

From Jan. 1996
to Jun. 1998

M.Sc. Sanitation, Environment and Water Resources

Engineering School of the Federal University of Minas Gerais (EE UFMG), Belo Horizonte, Brazil. Thesis defended on 26 June 1998.

From Jan. 1989
to Dec. 1993

B.Sc. Civil Engineering

Engineering School of the Federal University of Minas Gerais (EE UFMG), Belo Horizonte, Brazil. Specialization: *Hydraulics and water resources*

PROFESSIONAL APPOINTMENTS, COMMITTEES

- Since Oct. 2020 **Member of the Scientific Steering Committee of WWRP (WMO)**
<https://community.wmo.int/wwrp-scientific-steering-committee>; World Weather Research Programme of the World Meteorological Organization
- Since Apr. 2019 **President of the Division on Hydrological Sciences of the European Geosciences Union (EGU)** www.egu.eu/hs/structure; member of the EGU Council, EGU GA HS Programme Chair, HS Medal Committees, HS ECS Award Committee
- Since 2019 **Co-president of the CNRS INSU EC2CO AT HYBIGE (“Action thématique: Les hydrobiogeosystèmes et leurs interactions”)** project evaluation and grant attribution;
<https://programmes.insu.cnrs.fr/ec2co/hybige/>
- Nov. 2017-Nov. 2019 **Member of the Advisory Board of EFAS and GloFAS**
 European and Global Flood Awareness Systems, ECMWF, UK
- Since Apr. 2016 **Member of the EGU Outreach and Communication Committee of the EGU Division on Hydrological Sciences; HS Blog Editorial Team:** <https://blogs.egu.eu/divisions/hs/>
- Since Apr. 2013 **Member of the Administration and Editorial Teams of the HEPEX Portal** www.hepex.org
- Apr. 2018 – Apr. 2019 **Deputy-president of the Division on Hydrological Sciences (HS) of EGU**
- Apr. 2015 – Apr. 2018 **Chair of the EGU Sub-division on Hydrological Forecasting of the HS Division**
- Jun. 2014 – Feb. 2018 **Co-chair of HEPEX (Hydrologic Ensemble Prediction Experiment)** www.hepex.org
- From 23 March to 14 April 2017 **Environmental Expert (volunteer), Associate member of the UN Disaster Assessment and Coordination team (UNDAC)**
 Team of experts deployed to Peru to assist in conducting a multi-sectoral rapid needs assessment and provide support to emergency management. Mobilized through the European Civil Protection and Humanitarian Aid Operations (ECHO), ERCC (European Commission)
- 2011 – 2015 **Expert member of the evaluation committee of the French research institute IRD (*Institut de recherche pour le développement*)**
 Scientific committee for arbitration and capacity building managed by the IRD Direction of Research Programs and Training in the South (*Comité scientifique d'arbitrage et renforcement des capacités, Direction des Programmes de Recherche et de la Formation au Sud*)
- 2012 – 2014 **Regional chair of HEPEX for Europe**
- 2012 **Expert member of the consultation committee GCTI-Brazil**
Groupe de concertation transversal international, French Government (Ministry of foreign affairs and Ministry of education and research)

RESEARCH PROJECTS AND ROLES

- Ongoing** PICS (ANR), 628k€ (Irstea Aix-en-Provence & Antony: 143k€), 8 partners, PI: Olivier Payraastre (Ifsttar), Towards Integrated Nowcasting of Flash Flood Impacts. Contributor, 2018 – 2021 (extended to June 2022).
 DGPR SCHAPI-Irstea/Cemagref, French Government (Direction générale de la prévention des risques, Ministry of Ecology) (variable annual budget), Flood forecasting and warning. Main leader of the research actions related to hydrological ensemble prediction, Occasional actions since 2008.
- Finalized** AQUACLEW (ERA4CS, ERA-NET JPI Climate / ANR) 2.1M€ (Irstea: 363k€), 8 partners, PI: Berit Arheimer (SMHI), Advancing Quality of Climate Services for European Water. Contributor and coordinator at the partner level of WP1 and WP3 (User needs and User uptake). <http://www.aquaclew.eu/>, 2017 – 2020.
 IMPREX (H2020 European Commission), 8M€ (Irstea: 320k€), 23 partners, PI: Bart van den Hurk (KNMI), IMPROVING PRedictions and management of hydrological EXtremes. Leader of WP8 Sectoral survey on Hydropower (4 partners) and coordinator at the partner level. www.imprex.eu, 2015 – 2019.
 FASEP (France-Brazil), Irstea Aix-en-Provence & Antony: 52k€, 4 partners, PI: Jacques Testud (Novimet), Hydrological Risk Management in São Paulo. Contributor, 2013 – 2017.

COMPLEX, FP7 European Commission, 7M€ (Irstea: 200k€), 17 partners, PI: Nick Winder (Newcastle University), Knowledge Based Climate Mitigation Systems for a Low Carbon Economy. Task coordinator for research on system's flips and policy-brief, WP2 Climate-related energies. <http://owsgip.itc.utwente.nl/projects/complex/>, 2012 – 2016.

DROP, Interreg IVB NWE European Regional Development Funding, 6.8M€ (Irstea: 283k€), 11 partners, PI: Nanny Bressers (Waterschap Vechtstromen), Benefit of governance in DROught adaptation. Coordinator at the partner level (team of 5 people involved in drought governance and seasonal forecasting), 2013 – 2015.

Programme PHC FAST France-Australia, < 10k€, Partners: University of Newcastle and University of Adelaide, PI: Benjamin Renard (Irstea Lyon), Quantifying uncertainties in hydrologic prediction, with application to flood forecasting. Contributor in 2011, 2010 – 2012.

XEROCHORE FP7 (Support action) European Commission, 1.5M€ (Irstea: 60k€), 11 partners, PI: Anil Markandya (FEEM), An Exercise to Assess Research Needs and Policy Choices in Areas of Drought. Contributor. <http://www.feem-project.net/xerochore>, 2008 – 2010.

FP6 EURORISK/PREVIEW (Research project, European Commission). Contributor in 2006.

EFAS Project (European Commission, IES DG JRC), Development of the European Flood Awareness/Alert System. Team member in 2005 – 2006. <https://www.efas.eu/>

ECCO Multiple scales in hydrometeorology (French national project). Contributor in 2004.

Cemagref/Conseil Général 92 project on the space-time characterization of rain fields (French national project). Principal Investigator in 2004 – 2005.

TEACHING AND TRAINING MATERIAL

Current Occasional lecturer of Hydrology and Water Resources at Engineering Schools: Sorbonne Université (UPMC), PolyTech'Paris, EIVP, École polytechnique, Paris, France. 15-20 hours/year. Elaboration and conduct of the courses, since 2007. Responsible for the course Hydrology at EIVP since 2013.

Training course lecturer on flood forecasting and uncertainty assessment for flood forecasters in France (Formation IFORE, SCHAPI-SPC), since 2016.

Past Training course lecturer on flood forecasting and uncertainty assessment to postgraduate students and professionals (operational flood forecasters). Elaboration and conduct of the courses. Argentina (2015), Brazil (2012, 2013, 2015, 2016, 2017).

Lecturer on Hydrology (14 hours/year) at INFOMA (Institut de Formation du Ministère de l'Agriculture, Centre de Nancy), Nancy, France, 2005 – 2007.

Occasional lecturer in Hydrology (about 100 hours) at UJF, OSUG, INPG (Grenoble). Elaboration and conduct of the courses, 1999 – 2001.

Contractual lecturer (2h/week) in Hydrology at FEAMIG (Faculdade de Engenharia de Agrimensura de Minas Gerais), Engineering school in Belo Horizonte, Brazil. Elaboration and conduct of the courses, from February to June 1998.

Student monitor in Hydrology, Hydraulics and Fluid mechanics, UFMG, Brazil, 1993 and 1997.

Training material Co-author of 5 games for teaching and training on the use of probabilistic predictions in hydrology: (1) Flood control game (2012), (2) Water management game (2013), (3) Pay for a forecast game (2015), (4) The Shopkeepers dilemma: a decision-making game using probabilistic forecasts (2016), (5) Pathways to running a flood forecasting centre: an adventure game (2017). All available at: <http://hepex.irstea.fr/resources/#gametraining>

STUDENT SUPERVISING AND EXAMINING BOARDS

PhD supervision (ongoing) Since 2019, E. Valdez Medina (Université Laval, Quebec): Identification of the potentials of ensemble hydrological forecasting systems. External co-supervisor (main supervisor: F. Anctil, Université Laval)

Since 2017, D. Peredo (UPMC, Paris): Probabilistic approach to flood risk nowcasting for catchments under flash-flood conditions. Main supervisor (co-supervisor: L. Oudin, UPMC)

Since 2017, A. Lemoine (UPMC, Paris): Improving the performance of water-energy systems by integrating large-scale climate services indicators into local impact models for the hydropower sector. Main supervisor.

Since 2017, A. Assis dos Reis (UFMG, Brazil): Ensemble seasonal forecasting of reservoir inflows to hydropower plants in Brazil. External co-supervisor (main supervisor: W. Fernandes, UFMG, Brazil).

- PhD supervision (finalized)** 2016 – 2020, M. Cassagnole (AgroParisTech, Paris): Analysis of the link between the quality of hydrological forecasts and their economic value for the hydropower sector. Main supervisor. Defended on 29 May 2020.
- 2013 – 2016, A. Caseri (AgroParisTech): Contribution of geostatistical conditional simulation to ensemble rainfall nowcasting and flash flood warning. Co-supervision with P. Javelle (Irstea Aix-en-Provence). Defended on 22 March 2017.
- 2013 – 2016, L. Crochemore (AgroParisTech): Seasonal streamflow forecasting for reservoir management. Main supervisor. Defended on 29 April 2016.
- 2009 – 2013, I. Zalachori (AgroParisTech): Hydrological ensemble prediction: developments to improve forecast quality and assess forecast value. Main supervisor. Defended on 19 April 2013.
- 2009 – 2012, A. Randrianasolo (UPMC): Generalisation of the ensemble approach to hydrological forecasting at ungauged catchments. Main supervisor. Defended on 19 December 2012.
- Involvement in other PhD supervisions** F. Neves Lima (UFMG, Brazil): Extreme rainfall dynamics in urban flood events (2019). Supervision of his 11-month stay at Irstea in 2017. Main supervisors: N. Nascimento, W. Fernandes.
- F. Bourgin (AgroParisTech, France): How to quantify predictive uncertainty in hydrological modelling? (2014). Co-publication. Main supervisors: V. Andréassian, C. Perrin (Irstea Antony).
- L. Berthet (AgroParisTech, France): Flood forecasting at the hourly time step: towards a better assimilation of discharge data in a hydrological model (2010). Co-publication. Main supervisor: V. Andréassian (Irstea Antony)
- A. Ben Daoud (INP Grenoble, France) Improvements and developments of an analog-based method for rainfall probabilistic forecasting (2010). Co-publication. Main supervisors: M. Lang, E. Sauquet (Irstea Lyon).
- J.-A. Velázquez (Université Laval, Canada): Multi-model hydrological ensemble prediction (2010). Supervision of his 6-month stay at Irstea in 2009 and co-publication. Main supervisor: F. Anctil (Université Laval, Québec).
- J.-M. Lepioufle (INPG) Space-time modelling of rainfall fields (2009). Involvement in 2007. Main supervisors: J.-D. Creutin (IGE, Grenoble), E. Leblois (Irstea Lyon).
- MSc (or equivalent) supervision** MSc of S. Garnier (Université des Sciences de Montpellier): On the use of seasonal forecasts of precipitation and discharge for water reservoir management, 2018. Co-supervision with M. Cassagnole.
- MSc of P. Huang (Polytech Nice-Sophia Antipolis): Impact of a better evaluation of evapotranspiration on flood and low flow simulation in the context of climate change, 2018. Co-supervision with D. Peredo.
- MSc of D. Peredo (UPMC Paris): Impact of better accounting for evapotranspiration in hydrological modelling, 2017.
- Master C. Vignaud (UPMC Paris): Evaluation of the performance of the GRP model for the May-June 2016 floods in the Seine and Loire river basins, 2017.
- MSc of J. Norville (University Paris-Sud Orsay): Development of a forecast verification scoreboard utility for the analysis of the quality of hydrological forecasts, 2016.
- MSc of M. Cassagnole (UPMC Paris): Evaluating the link between quality and value of forecasts: case study of the hydropower sector, 2016.
- MSc of L. Arnal (Vrije Universiteit Amsterdam, Deltares): An intercomparison of flood forecasting models for the Meuse River basin, 2014. Co-supervision with A. Weerts (Deltares).
- MSc of Z. Bchir (Ecole Supérieure des Ingénieurs de l'Équipement Rural de Medjez El Bab, Tunisia): Flood forecasting in the Medjerda catchment with the GRP model, 2013. Supervision of 1-month stay at Irstea.
- Scientific internship of A. Caseri (UNESP-USP, Brazil): Hydrological study of the catchment Parque Estadual das Fontes do Ipiranga with the GR4H model, 2013. Supervision of 1-month stay at Irstea.
- MSc of H. Dhouioui (UPMC Paris): Multi-scenario forecasting from deterministic forecasts, 2011.
- MSc of T. van Pham (University of Twente, Netherlands): Tracking the uncertainty in streamflow prediction through a hydrological forecasting system, 2011. Supervision of her 4-month stay at Irstea.
- MSc of P. Nicolle (UPMC Paris): Taking into account snow modelling in hydrological forecasting: which contribution to a better forecasting of snowmelting floods?, 2010.
- MSc of W. Weeink (University of Twente, Netherlands): Thresholds for flood forecasting and warning – Evaluation of streamflow and ensemble thresholds, 2010. Supervision of 4-month stay in Irstea.

PhD Examining Boards,
jury member

- MSc of A. Randrianasolo (UPMC Paris): Evaluation of the quality of ensemble flood forecasts, 2009.
End-Term project of A-L. Tiberi (ENTPE, Lyon): Vulnerability of roads to flash floods; analysis of insurance reports and rainfall severity, 2005. Co-supervision with J-D Creutin (IGE, Grenoble).
- MSc of C. Perchat (EPF Lausanne): Taking into account temporal variability in a stochastic rainfall field generator, 2004. Co-supervision with E. Leblois (Irstea Lyon).
- MSc (DEA) of L. Chapel (Univ. Lumière Lyon 2): Detection of scale invariance properties in rainfall time series. Case study on data from the city of Marseilles, 2004.
- MSc (DESS) of A. Tanasie (Univ. Claude Bernard Lyon 1): Statistical properties of rainfall under convective systems. Comparative analysis for the city of Marseilles and the Great Lyon, 2003.
- PhD of B. van Osnabrugge (“Interpolate, Simulate, Assimilate: operational aspects of improving hydrological forecasts in the Rhine basin”), Wageningen University, The Netherlands, defended on 12/05/2020. (Evaluator with report, jury member)
- PhD of A. Lovat (“Prévision à très courte échéance des crues rapides méditerranéennes”), CNRM, Météo-France, INP de Toulouse, France, defended on 18/11/2019. (Evaluator with report, jury member)
- PhD of M. L. Poletti (“Probabilistic hydrological nowcasting on Mediterranean small catchments: from theoretical approaches to operational applications”), CIMA Research Foundation, University of Genova, Italy, defended on May 2019 (Evaluator with report)
- PhD of S. Kittavong (“Exploration de nouvelles structures de modélisation hydrologique globale conceptuelle”), Université Laval, Québec, Canada, defended on 22/03/2019. (Evaluator with report, jury member)
- PhD of J. Bellier (“Prévisions hydrologiques probabilistes dans un cadre multivarié : quels outils pour assurer fiabilité et cohérence spatio-temporelle ?”), IGE, Grenoble, defended on 21/09/2018. (Evaluator, jury member)
- PhD of D. Lucatero (“Ensemble Hydrometeorological Forecasting in Denmark”), University of Copenhagen, Denmark, defended on 30/01/2018. (Evaluator with report, jury member)
- PhD of M. Courbariaux (“Contributions statistiques aux prévisions hydrométéorologiques par méthodes d’ensemble”), AgroParisTech, Paris, France, defended on 27/01/2017. (Evaluator, jury member)
- PhD of A. Thibault (“Toward Coherent Accounting of Uncertainty in Hydrometeorological Modeling”), Université Laval, Québec, Canada, defended on 9/10/2015. (Evaluator with report, jury member)
- PhD of G. Seiller (“Evaluation de la sensibilité des projections hydrologiques au choix des outils hydro-météorologiques globaux conceptuels – Approche multi-modèle”), Université Laval, Québec, Canada, defended on 11/07/2013. (Evaluator with report, jury member)
- PhD of M.-A. Boucher (“Le défi de l’incertitude : de la production de prévisions hydrologiques d’ensemble à leur utilisation opérationnelle”), Université Laval, Québec, Canada, defended on 15/10/2010. (Evaluator with report, jury member)

EDITORIAL DUTIES AND
REVIEWER

Editorial Duties

- Associate Editor for Journal of Hydrology (2018 – 2020).
- Guest editor for Hydrology and Earth System Sciences, Special issue: Sub-seasonal to seasonal hydrological forecasting. Editors: F. Wetterhall, I.G. Pechlivanidis, M.-H. Ramos, A. Wood, Q. J. Wang, E. Zehe, and U. Ehret; 40 papers (2016 – 2017).
- Section editor for the Handbook of Hydrometeorological Ensemble Forecasting, Section: Verification of Hydrometeorological Ensemble Forecasts. Editors. M.-H. Ramos, J. Demargne, N. Voisin; 6 chapters (2013 – 2017).
- Guest editor for Hydrological Processes, Special issue: Hydrological Ensemble Prediction Systems (HEPS), vol. 27. Editors: H. Cloke, F. Pappenberger, S.J van Andel, J. Schaake, J. Thielen, M.-H. Ramos; 11 papers (2013).
- Guest editor for Advances in Geosciences, Special issue: Towards practical applications in ensemble hydro-meteorological forecasting, vol. 29. Editors: Y. He, F. Pappenberger, J. Thielen-del Pozo, A. Weerts, M.-H. Ramos and M. Bruen; 14 papers (2011).

Journal reviewer

- HESS, Journal of Hydrology, Water Resources Research, BAMS, Journal of Hydrometeorology, Hydrological Sciences Journal, Atmospheric Science Letters, NHES, Sciences, Hydrological Processes.

Research proposal or Grant application evaluator

CNRS INSU EC2CO, AT HYBIGE, France, since 2018.
 RIISQ program from the Intersectorial flood network of Quebec, 2020
 European Commission, DG Research & Innovation, 2020.
 Natural Environment Research Council (NERC, UK), 2018.
 Natural Sciences and Engineering Research Council of Canada (NSERC/CRSNG), 2013, 2018.
 IRD, Direction des Programmes de Recherche et de la Formation au Sud (France), 2011 – 2015.
 INSU EC2CO - Écosphère Continentale et Côtière (CYTRIX, France), 2009.

PROGRAMME COMMITTEE MEMBER/ORGANIZER AND INVITED TALKS

Member of conference organizing and/or scientific committees

7th HEPEX workshop “Breaking the Barriers” (University of Melbourne, Australia, 6-8/02/2018).
 SHF (Société Hydrotechnique de France) workshop “REX Crues des bassins moyens de la Loire et de la Seine 2016” (Paris, France, 28/09/2017).
 6th HEPEX workshop “Ensemble for better forecasts” (Université Laval, Quebec, 6-8/06/2016).
 HEPEX workshop on Seasonal Hydrological Forecasting (Norrköping, Sweden, 21-23/09/2015).
 5th HEPEX workshop “10th Anniversary” (NCEP, Maryland, USA, 24-26/06/2014).
 SHF HydroES workshop, Hydropower and Environmental Sustainability (Grenoble, 16-17/03/2016).
 Workshop France-Québec on Hydrological Ensemble Prediction. Participants from Université Laval, Université du Québec à Chicoutimi, Université McGill, Rio Tinto Alcan, CEHQ, Hydro-Québec, EDF, Météo-France, SCHAPI, LTHE, AgroParisTech (Grenoble & Chichilianne, France, 11-13/04/2011).
 HEPEX Workshop on Post-processing and downscaling of atmospheric ensemble forecasts for hydrologic applications (Météo-France, Toulouse, France, 15-18/06/2009).
 1st EFAS workshop on the use of Ensemble Prediction Systems in flood forecasting, European Commission (Ispra, Italy, 21-22/11/2005).
 Workshop “Pluies Intenses”, Cemagref, UR Hydrologie-Hydraulique (Lyon, 18/05/2003).

Organizer of scientific sessions in major conferences (main convener or co-convener)

European Geophysical Union (EGU) General Assembly: organization (main convener) of the session “The Science-policy interface in hydrology – essentials for more impactful science” (Vienna, Austria, 2019; EGU Online SGO, 2020).
 American Geophysical Union (AGU) Fall Meeting: co-organization of the session “Enhancing The Value Proposition Of Hydrometeorological Forecasts To Inform Multisectoral Decision-Making (ELightning session)” (San Francisco, USA, 8-13/12/2019)
 IAHS Scientific Assembly 2019: co-organization of the session “Short-Range Hydrometeorological Forecasting” (Montreal, Canada, 8-18/07/2019).
 European Geophysical Union (EGU) General Assembly: organization of the session related to “Ensemble hydro-meteorological forecasting” in Vienna, Austria (from 2010 to 2018).
 IAHS Scientific Assembly 2017: co-organization of the session “Probabilistic forecasts and land-atmosphere interactions to advance hydrological predictions” (Port Elizabeth, South Africa, 10-14/07/2017).
 American Geophysical Union (AGU) Fall Meeting: co-organization of the session “Advances in Hydrologic Prediction Toward Water Resources Decision Making” (San Francisco, USA, 12-16/12/2016).
 IAHS workshop/26th IUGG General Assembly 2015: organization (main convener) of the session “Hydrological Forecasting and Predictive Uncertainty: Advances and Challenges of Transferring Science into Operational Practice” (Prague, Czech Republic, 22/06-02/07/2015).
 European Geophysical Union (EGU) General Assembly: organization (main convener) of the session “Hydropower and other renewable sources of energy for a sustainable future: modeling and management issues” (Vienna, Austria, 12-17/04/2015).
 9th EMS Annual Meeting / 9th European Conference on Applications of Meteorology (ECAM): co-organization of the session “Meteorological Applications - Interfacing hydrological and meteorological models in forecasting systems” (Toulouse, France, 28/09 – 02/10 2009).

- Invited talks (since 2010)
- 2020
 Atelier Clim2Power. Talk: « Chaîne de valeur des projections climatiques à la production hydroélectrique en France », Online workshop, 24/11/2020
- European Parliament (EP) Intergroup on 'Climate Change, Biodiversity and Sustainable Development' event. Talk: "The role of water in the new EU Strategy on Adaptation to Climate Change", Online event, 20/11/2020
- Research Center Jülich/German Science Foundation: RealPEP Conference "Precipitation and Flash Flood Prediction from Minutes to Days". Talk: "Evaluating NWP-based ensemble forecasts for distributed hydrological modelling and flash flood forecasting in France", Online webinar, 7/10/2020
- RTE/IPSL Webinar on Hydrology modeling for energy models. Talk: "Impacts of river flow regime change on the operation of hydropower reservoirs", Online webinar, 1/7/2020
- 2019
 AGU 2019, Session "Water and Society: Enhancing and Communicating Hydroclimatic Forecasts for Water Resources Decision-making". Invited talk: "Communicating uncertainty in hydro-meteorological forecasts: mission accomplished?", San Francisco, USA, 11/12/2019.
- CEST 2019, 16th International Conference on Environmental Science and Technology. Invited talk: "Water and Climate Services for Hydropower", Rhodes, Greece, 6/9/2019.
- IAHS- IUGG Scientific Assembly 2019. Invited talk during the "Hydrological research & practice workshop", Montreal, Canada, 10/07/2019.
- Journées techniques SCHAPI "Prévisions d'ensemble" (Ensemble forecasting). Invited talk: "L'histoire et des faits marquants de la prévision hydrologique d'ensemble", Toulouse, France, 28/01/2019.
- 2018
 Rencontres R&D 2018 Météo-France. Invited talk: "Prévision saisonnière des débits : comment dépasser l'usage de la climatologie ?", Toulouse, France, 13/06/2018.
- DREAL CVL/EPLoire Forecasters' day / 10^{ème} journée technique des prévisionnistes de l'EP Loire et du SPC Loire - Cher – Indre. Invited talk: "La valorisation économique des prévisions hydrologiques" (with M. Cassagnole). Orleans, France, 29/05/2018.
- WMO Global Conference on "Prosperity through Hydrological Services". Invited keynote speaker on "Hydrological Products". <http://hydroconference.wmo.int/> Geneva, Switzerland, 7-9/05/2018.
- 8th World Water Forum. Talk on the side events: "Agriculture and drought risk: driving action for change" and "How can supporting biodiversity benefit qualitative and quantitative water management?", organized by the French Water Partnership/Partenariat français pour l'eau. Brasilia, Brazil, 19-23/03/2018.
- 2017
 Water JPI Exploratory Workshop. Invited expert speaker for the Breakout Session 3 "Managing the Effects of Hydro-climatic Extreme Events", including an overview of the IMPREX project. Dublin, Ireland, 2-3/11/2017.
- 2016
 MENESR PCN Environnement, Ministère de l'Education nationale, de l'Enseignement supérieur et de la Recherche, French Gouvernement. Invited speaker at the round table on the evaluation of European projects (SC5). Paris, 17/10/2016.
- EURAC/FP7 EUPORIAS project. 2nd EUPORIAS Climate Services Masterclass. Invited expert and speaker on the use of climate information in the water sector. Bolzano, Italy, 16-20/05/2016.
- 2015
 NVE, Norwegian Water Resources and Energy Directorate. Seminar on Hydrometeorological modelling in Norway. Talk: "Probabilistic forecasting for the hydropower industry". Lillehammer, Norway, 9-10/12/2015.
- LSCE-IPSL, Laboratoire des sciences du climat et de l'environnement. Talk on the scientific and operational aspects of the hydrometeorological prediction chain. Gif-sur-Yvette, France, 4/12/2015.
- 2014
 CEH, Centre for Ecology & Hydrology. Invited talk: "Hydrological ensemble prediction in France; quality and value of forecasts". Wallingford, UK, 27/11/2014.
- Joint H-SAF & HEPEX Workshops on Coupled Hydrology. Invited talk: "The value of hydrological ensemble predictions for reservoir inflow management". Reading, UK, 3-7/11/2014.
- 2013
 XX SBRH, Brazilian Symposium on Water Resources. Invited speaker at the round table: "Hydrological forecasting, uncertainties and decision-making". Bento Gonçalves, Brazil, 18/11/2013.
- 2012
 IX ENAU, Encontro Nacional de Aguas Urbanas, Invited speaker at the round table: "Forecasting and prevention of urban floods". Belo Horizonte, Brazil, 08-10/08/2012.
- 2011
 ECMWF. Invited talk: "Issues on hydrological ensemble forecasting in France". Reading, UK, 5-7/09/2011.

SCHAPI Modelling Days. Invited talks: “La prise en compte de la neige dans la prévision hydrologique. Evaluation des prévisions hydrologiques d'ensemble du modèle GRP avec le module CemaNeige” and “Prévision hydrologique d'ensemble, Volet AVI”. Toulouse, France, 4-5/10/2011.

SINTEF Energy Research International Workshop “Towards a transdisciplinary partnership with water resource management stakeholders. Optimizing the water resource management and limiting consequences of natural risks”. Invited talk: “Ensemble prediction in snow-influenced catchments: what can be done to improve uncertainty quantification?”. Trondheim, Norway, 16-17/06/2011.

2010 AGU Fall Meeting 2010, American Geophysical Union. Invited talk: “Evaluating hydrological ensemble predictions using a large and varied set of catchments”. San Francisco, USA, 12-18/12/2010.

VISITING SCIENTIST, FELLOWSHIPS AND AWARDS

Since 2019	Associate professor at Université Laval, Quebec, Canada (Dép. génie civil et de génie des eaux)
Since 2019	Fellow of the ECMWF Fellowship program at ECMWF, Reading, UK
2018	Professorship at University of Padova, Italy, invited by Pr. Marco Borga (2 months)
2017	Visiting scientist funded within the program “Exploration Japon” of the French Embassy in Japan (visiting several research institutes and universities in Tsukuba, Tokyo and Kyoto) (10 days)
2016	Visiting scientist at UFMG, Belo Horizonte, Brazil, with Pr. Nilo Nascimento (2 weeks)
2015	Visiting scientist at NCAR, Boulder, USA, with Dr. Andy Wood (1 week)
	Visiting scientist at University of Cordoba, Argentina, with Pr. Juan C. Bertoni (1 week)
	Visiting scientist at UFMG, Belo Horizonte, Brazil, with Pr. Nilo Nascimento (1 week)
	Visiting scientist at NARO (NIRE), Tsukuba, Tokyo, with Dr. Takao Masumoto (1 week)
2014	Visiting scientist at ECMWF, Reading, UK, with Dr. Florian Pappenberger (1 month)
2013	Visiting scientist at Université Laval, Canada, with Pr. François Anctil (6 months)
	Visiting scientist at UFRGS, Porto Alegre, Brazil, with Pr. Walter Collischonn (1 week)
2012	Visiting scientist fellowship from FAPEMIG at UFMG, Brazil, with Pr. Márcio Baptista (1 month)
2011	Visiting scientist at University of Newcastle, Australia, Program PHC FAST (3 weeks)
2005 – 2006	IES Exploratory Research fellowship (postdoctoral fellow) of the European Commission, DG JRC, Ispra, Italy (19 months)
1998 – 2002	PhD fellowship from the Brazilian Government (CAPES) (4 years)
1996 – 1998	MSc fellowship from the Brazilian Government (CNPq and FAPEMIG) (2 years)
1997	ABES/CETREL Award of best paper presented at the 19th Brazilian Congress in Sanitation and Environment (ABES, Foz do Iguaçu, 14-19/09/97). Authors: Vieira, C.P., Ramos, M.-H., von Sperling, M. (1997), Brazil.
1997	Fellowship to assist students (monitor) at the Federal University of Minas Gerais, Brazil (6 months)
1993	Fellowship to assist students (monitor) at the Federal University of Minas Gerais, Brazil (10 months)

LANGUAGE AND DIGITAL SKILLS

Mother tongue(s)	Portuguese
Other language(s)	French: fluent (Resident in France since 1998) English: fluent (Proficiency Degree of the University of Michigan obtained in 1989) Italian: Good (read), Fair (spoken) (Resident in Italy in 2005 – 2006) Spanish: Good (read), Fair (spoken)
Digital skills	OS Windows (daily environment) Programming languages: Fortran (very good), R (good), Scilab (notions) Website administrator and content manager (Wordpress CMS; eZ Publish): <ul style="list-style-type: none"> ▪ HEPEX (www.hepex.org), since 2013 ▪ INRAE/Irstea HYDRO research team (http://webgr.irstea.fr/), since 2014

PUBLICATIONS

Scopus (on 01/10/2020) h-index = 20 (Scopus author ID: 9638664600; <https://orcid.org/0000-0003-1133-4164>)
Scopus database: 51 documents; 1601 citations

Listed below 104 publications, of which 44 peer-reviewed papers, 15 book chapters, 5 comments, prefaces or Newsletter articles, and 4 policy-briefs. More than 70 blog posts published since 2013.

THESES:

- Ramos, M.H.** (2018) *Qualité et valeur des prévisions hydrologiques d'ensemble*. Mémoire d'HDR (French Habilitation), Sorbonne Université, Paris, France, 102 pp. [in French]
- Ramos, M.H.** (2002) *Analyse de la pluviométrie sous des systèmes nuageux convectifs. Étude de cas sur des données de la ville de Marseille et de la méthode ISIS de Météo-France*. Thèse de Doctorat (PhD Thesis), UJF, LTHE, Grenoble, France, 165 pp. [in French]
- Ramos, M.H.** (1998) *Drenagem Urbana: aspectos urbanísticos, legais e metodológicos em Belo Horizonte*. Dissertação de Mestrado (MSc Thesis), Escola de Engenharia da Universidade Federal de Minas Gerais, Belo Horizonte, Brasil, 89 pp. [in Portuguese]

PEER-REVIEWED PAPERS:

- Siqueira, V.A., Fan, F.M., de Paiva, R.C.D., **Ramos, M.-H.**, Collischonn, W., 2020. Potential skill of continental-scale, medium-range ensemble streamflow forecasts for flood prediction in South America, *Journal of Hydrology* (2020), doi: <https://doi.org/10.1016/j.jhydrol.2020.125430>
- Assis dos Reis, A., dos Santos Fernandes, W., **Ramos, M.-H.**, 2020. Assessing two precipitation data sources at basins of special interest to hydropower production in Brazil, *Brazilian Journal of Water Resources*, RBRH, Porto Alegre, v. 25, e14, 2020, doi: [10.1590/2318-0331.252020190068](https://doi.org/10.1590/2318-0331.252020190068)
- Lavers, D., **M.-H. Ramos**, L. Magnusson, I. Pechlivanidis, B. Klein, C. Prudhomme, L. Arnal, L. Crochemore, B. Van Den Hurk, A. Weerts, S. Harrigan, H. Cloke, D. Richardson, F. Pappenberger, 2020. A Vision for Hydrological Prediction. *Atmosphere* 11, 237; doi:10.3390/atmos11030237
- Crochemore, L., **Ramos, M.-H.**, Pechlivanidis, I., 2019. Can continental models convey useful seasonal hydrologic information at the catchment scale? *Water Resources Research*, Vol. 56 (2): e2019WR025700. DOI: <https://doi.org/10.1029/2019WR025700>
- de Lavenne, A., Andréassian, V., Thirel, G., **Ramos, M.-H.**, Perrin, C., 2019. A regularization approach to improve the sequential calibration of a semi-distributed hydrological model. *Water Resources Research*, 55 (11): 8821-8839. <https://doi.org/10.1029/2018WR024266>
- Blöschl, G., M. F.P. Bierkens, A. Chambel, C. Cudennec, G. Destouni, (...), **M.H. Ramos**, et al. (collective of 219 authors), 2019. Twenty-three Unsolved Problems in Hydrology (UPH) – a community perspective. *Hydrological Sciences Journal*, 64 (10): 1141-1158, DOI: [10.1080/02626667.2019.1620507](https://doi.org/10.1080/02626667.2019.1620507)
- Viatgé J., Berthet L., Marty R., Bourgin F., Piotte O., **Ramos M.-H.**, Perrin C., 2019. Vers une production en routine d'intervalles de confiance sur les prévisions de crue dans Vigicrues. *La Houille Blanche*, 2: 63-71, DOI: <https://doi.org/10.1051/lhb/2019016>
- Thiboult, A., Anctil, F., **Ramos, M.-H.**, 2017. How does the quantification of uncertainties affect the quality and value of flood early warning systems? *Journal of Hydrology*, Vol. 551: 365-373. DOI: [10.1016/j.jhydrol.2017.05.014](https://doi.org/10.1016/j.jhydrol.2017.05.014)
- Engeland, K., Borga, M., Creutin, J.-D., François, B., **Ramos, M.-H.**, Vidal, J.-P., 2017. Space-time variability of climate variables and intermittent renewable electricity production - a review. *Renewable & Sustainable Energy Reviews*, 79: 600-617. DOI: [10.1016/j.rser.2017.05.046](https://doi.org/10.1016/j.rser.2017.05.046)
- Zhao, T., Bennett, J., Wang, Q.J., Schepen, A., Wood, A., Robertson D., **Ramos, M.-H.**, 2017. How suitable is quantile mapping for post-processing GCM precipitation forecasts? *Journal of Climate*, 30: 3185-3196. DOI: [10.1175/JCLI-D-16-0652.1](https://doi.org/10.1175/JCLI-D-16-0652.1)
- Crochemore, L., **Ramos, M.-H.**, Pappenberger, F., and Perrin, C., 2017. Seasonal streamflow forecasting by conditioning climatology with precipitation indices. *Hydrol. Earth Syst. Sci.*, 21: 1573-1591. DOI: [10.5194/hess-21-1573-2017](https://doi.org/10.5194/hess-21-1573-2017)
- Arnal, L., **Ramos, M.-H.**, Coughlan, E., Cloke, H.L., Stephens, E., Wetterhall, F., van Andel, S.J., Pappenberger, F., 2016. Willingness-to-pay for a probabilistic flood forecast: a risk-based decision-making game. *Hydrol. Earth Syst. Sci.*, 20: 3109-3128. DOI: [10.5194/hess-20-3109-2016](https://doi.org/10.5194/hess-20-3109-2016)
- Crochemore, L., **Ramos, M.-H.**, and Pappenberger, F., 2016. Bias correcting precipitation forecasts to improve the skill of seasonal streamflow forecasts. *Hydrol. Earth Syst. Sci.*, 20: 3601-3618. DOI: [10.5194/hess-20-3601-2016](https://doi.org/10.5194/hess-20-3601-2016)
- Caseri, A., Javelle, P., **Ramos, M.-H.**, Leblois, E., 2016. Generating precipitation ensembles for flood alert and risk management. *Journal of Flood Risk Management*, 9 (4): 402-415. DOI : [10.1111/jfr3.12203](https://doi.org/10.1111/jfr3.12203)
- Hurk, B. van den, L. Bouwer, C. Buontempo, R. Döscher, E. Ercin, C. Hananel, J. Hunink, E. Kjellström, B. Klein, M. Manez, F. Pappenberger, L. Pouget, **M.-H. Ramos**, P. Ward, A. Weerts, J. Wijngaard, 2016. Improving Predictions and Management of Hydrological Extremes through Climate Services: www.imprex.eu. *Climate Services*, 1: 6-11. DOI: [10.1016/j.cliser.2016.01.001](https://doi.org/10.1016/j.cliser.2016.01.001)
- Pagano, T. C., Pappenberger, F., Wood, A. W., **Ramos, M.-H.**, Persson, A., Anderson, B., 2016. Automation and human expertise in operational river forecasting. *WIRES Water* 2016, 3, 5: 692-705. DOI: [10.1002/wat2.1163](https://doi.org/10.1002/wat2.1163)
- Crochemore, L., **M.H. Ramos**, F. Pappenberger, S.J. van Andel, A. Wood, 2016. An experiment on risk-based decision-making in water management using monthly probabilistic forecasts. *Bull. Amer. Meteor. Soc.*, 97 (4): 541-551. DOI: [10.1175/BAMS-D-14-00270.1](https://doi.org/10.1175/BAMS-D-14-00270.1)
- Fan, F., **M.-H. Ramos**, W. Collischonn, 2015. Sobre o uso de previsões hidrológicas probabilísticas para tomada de decisão. *Revista Brasileira de Recursos Hídricos*, RBRH, 20 (4): 914-926.

19. La Jeunesse, I., Larrue, C., Furusho, C., **Ramos, M.H.**, Opeicle, A., Browne, A., De Boer, C., Vidaurre, R., 2015. Gouvernance de la sécheresse : le cas du bassin versant de la Vilaine aval (Bretagne, France). *Revue SET*, 6 p. <http://www.set-revue.fr/gouvernance-eau-secheresse-bassin-versant-Vilaine-Bretagne> (last seen on 17/02/2015)
20. Pappenberger, F., **Ramos, M.H.**, Cloke, H.L., Wetterhall, F., Alfieri, L. Bogner, K., Mueller, A. Salamon, P., 2015: How do I know if my forecasts are better? Using benchmarks in Hydrological Ensemble Prediction. *Journal of Hydrology*, 552: 697-713. DOI: [10.1016/j.jhydrol.2015.01.024](https://doi.org/10.1016/j.jhydrol.2015.01.024)
21. Bourgin, F., **Ramos, M.H.**, Thirel, G., Andreassian, V., 2014. Investigating the interactions between data assimilation and post-processing in hydrological ensemble forecasting. *Journal of Hydrology*, 519, Part D: 2775-2784.
22. Randrianasolo, A. Thirel, G., **Ramos, M.-H.**, Martin, E., 2014. Impact of streamflow data assimilation and length of the verification period on the quality of short-term ensemble hydrologic forecasts, *Journal of Hydrology*, 519, Part D: 2676-2691.
23. François, B., Borga, M., Anquetin, S., Creutin, J.D., Engeland, K., Favre, A.C., Hingray, B., **Ramos, M.H.**, Raymond, D., Renard, B., Sauquet, E., Sauterleute, J.F., Vidal, J.P., Warland, G., 2014. Integrating hydropower and intermittent climate-related renewable energies: a call for hydrology. *Hydrol. Process.*, 28 (21): 5465-5468.
24. Pagano, T.C., Wood, A.W., **Ramos, M.-H.**, Cloke, H.L., Pappenberger, F., Clark, M.P., Cranston, M., Kavetski, D., Mathevet, T., Sorooshian, S. and Verkade, J.S., 2014. Challenges of Operational River Forecasting. *J. Hydrometeorol.*, 15: 1692-1707.
25. **Ramos, M.H.**, van Andel, S.J., Pappenberger, F., 2013. Do probabilistic forecasts lead to better decisions? *Hydrol. Earth Syst. Sci.*, 9, 17: 2219-2232.
26. Zalachori, I., **Ramos, M.H.**, Garçon, R., Mathevet, T., Gailhard J., 2012. Statistical processing of forecasts for hydrological ensemble prediction: a comparative study of different bias correction strategies. *Adv. Sci. Res.*, 8: 135-141.
27. Nicolle, P., Valéry, A., **Ramos, M.H.**, Perrin, C., Andréassian, V., 2012. Mieux prévoir les crues nivales : évaluation de prévisions probabilistes de débit sur des bassins versants de montagne français. *La Houille Blanche*, 2: 26-33.
28. Andréassian, V., Le Moine, N., Perrin, C., **Ramos, M.H.**, Oudin, L., Mathevet, T., Lerat, J., Berthet, L., 2012. All that glitters is not gold: The case of calibrating hydrological models. *Hydrological Processes* 26 (14): 2206-2210.
29. Randrianasolo, A., **Ramos, M.H.**, Andreassian, V., 2011. Hydrological ensemble forecasting at ungauged basins: using neighbour catchments for model setup and updating. *Adv. in Geosciences*, 29: 1-11.
30. Velázquez, J.A., Anctil, F., **Ramos, M.H.**, Perrin, C., 2011: Can a multi-model approach improve hydrological ensemble forecasting? A study on 29 French catchments using 16 hydrological model structures. *Adv. in Geosciences*, 29: 33-42.
31. Ben Daoud, A., Sauquet, E., Lang, M., **Ramos, M.H.**, 2011. Peut-on étendre l'échéance de prévision des crues en optimisant la prévision de pluies par recherche d'analogues ? Application au bassin de la Seine à Paris. *La Houille Blanche*, 1: 37-43.
32. **Ramos, M.H.**, Mathevet, T., Thielen, J., Pappenberger, F., 2010. Communicating uncertainty in hydro-meteorological forecasts: mission impossible? *Meteorological Applications*, 17: 223-235.
33. Randrianasolo, A., **Ramos, M.H.**, Thirel, G., Andreassian, V., Martin, E., 2010. Comparing the scores of hydrological ensemble forecasts issued by two different hydrological models. *Atmospheric Science Letters*, 11(2): 100-107.
34. Andréassian, V., Perrin, C., Berthet, L. Le Moine, N., Lerat, J., Loumagne, C., Oudin, L., Mathevet, T., **Ramos, M.H.**, Valéry, A., 2009. Crash tests for a standardized evaluation of hydrological models. *Hydrol. Earth Syst. Sci.*, 13: 1757-1764.
35. Thielen, J., Bartholmes, J., **Ramos, M.H.**, de Roo, A., 2009. The European Flood Alert System – Part 1: Concept and development. *Hydrology and Earth System Sciences*, 13 (2): 125-140.
36. Bartholmes, J.C., Thielen, J., **Ramos, M.H.**, Gentilini, S., 2009. The European Flood Alert System EFAS – Part 2: Statistical skill assessment of probabilistic and deterministic operational forecasts. *Hydrol. Earth Syst. Sci.*, 13 (2): 141-153.
37. Kalas, M., **Ramos, M.H.**, Thielen, J., Babiakova, G., 2008. Evaluation of the medium-range European flood forecasts for the March-April 2006 flood in the Morava River. *Journal of Hydrology and Hydromechanics* 56 (2): 116-132.
38. Younis, J., **Ramos, M.H.**, Thielen, J., 2008. EFAS forecasts for the March-April 2006 flood in the Czech part of the Elbe River Basin - a case study. *Atmospheric Science Letters*, 9 (2): 88-94.
39. Sauquet, E., **Ramos, M.H.**, Chapel, L., Bernardara, P., 2008. Streamflow scaling properties: investigating characteristic scales from different statistical approaches. *Hydrological Processes*, 22 (17): 3462-3475.
40. **Ramos, M.H.**, Bartholmes, J., Thielen, J., 2007. Development of decision support products based on ensemble weather forecasts in the European Flood Alert System. *Atmospheric Science Letters*, 8 (4): 113-119.
41. Demeritt, D., Cloke, H., Pappenberger, F., Thielen, J., Bartholmes, J., **Ramos, M.H.**, 2007. Ensemble predictions and perceptions of risk, uncertainty, and error in flood forecasting. *Environmental Hazards*, 7 (2): 115-127.
42. **Ramos, M.H.**, Leblois, E., Creutin, J-D., 2006. From point to areal rainfall: linking the different approaches for the frequency characterization of rainfalls in urban areas. *Water Sci. Technol.*, 54 (6-7): 33-40.
43. **Ramos, M.H.**, Creutin, J-D., Leblois, E., 2005. Visualization of storm severity. *J. of Hydrology*, 315: 295-307.
44. **Ramos, M.H.**, 2003: La désagrégation de l'information de pluie. *La Houille Blanche*, 6: 123-128.

OPINION PAPERS, COMMENTS AND PREFACES, NEWSLETTER ARTICLES:

45. Pilloso, F., Modigliani, U., Magnusson, L., Bonshoms Calvelo, M., Sterponi, L., **Ramos, M.-H.**, Valderrama, P., 2017. ECMWF supports flood disaster response in Peru. *ECMWF Newsletter*, N° 152, Summer 2017, ECMWF, Reading, England: 2-3.

46. Barillier, A., Caignaert, G., Gouraud, V., **Ramos, M.-H.**, Roullet, D., Viollet, P.-L., 2016. Environnement & Hydroélectricité: HydroES 2016 - Synthèse de la conférence internationale organisée par la SHF les 16 et 17 mars 2016 à Grenoble. *Houille Blanche* (5): 64-67. <http://dx.doi.org/10.1051/lhb/2016052>
47. Cloke, H., Pappenberger, F., van Andel, S.J., Schaake, J., Thielen, J., **Ramos, M.H.**, 2013. Hydrological Ensemble Prediction Systems. *Preface to the Special Issue: Hydrological Ensemble Prediction Systems (HEPS). Hydrological Processes*, 27, 1-4. DOI: [10.1002/hyp.9679](https://doi.org/10.1002/hyp.9679)
48. Yi, H., Pappenberger, F., Thielen-del Pozo, J., Weerts, A., **Ramos, M.H.**, Bruen, M., 2011. Towards practical applications in ensemble hydro-meteorological forecasting. *Preface of the Special Issue in Advances in Geosciences*, 29: 119-121.
49. Pappenberger, F., Zappa, M. Smith, P.J. **Ramos, M.H.** Cloke, H.L., He, Y., Wetterhall, F., Rossa, A., Schaake, J., Thielen, J., 2010. Reply to "Ensemble, uncertainty and flood prediction" by Dance, S. and Zou, Q.P., *Hydrology and Earth System Sciences Discussions*, 7 (3), 15 p.

BOOK CHAPTERS:

50. Boucher, M.-A., **Ramos, M.H.**, 2018. Ensemble streamflow forecasts for hydropower systems. In: Q. Duan, F. Pappenberger, J. Thielen-del Pozo, A. Wood, H. L. Cloke, J. Schaake (Eds.), *Handbook of Hydrometeorological Ensemble Forecasting*. Springer-Verlag Berlin Heidelberg 2016, DOI: 10.1007/978-3-642-40457-3_54-1
51. Ancil, F., **Ramos, M.H.**, 2018. Verification metrics for hydrological ensemble forecasts. In: Q. Duan, F. Pappenberger, J. Thielen-del Pozo, A. Wood, H. L. Cloke, J. Schaake (Eds.), *Handbook of Hydrometeorological Ensemble Forecasting*. Springer-Verlag Berlin Heidelberg 2016, DOI: 10.1007/978-3-642-40457-3_3-1
52. Cloke H., Di Baldassarre, G., Landeg, O., Pappenberger, F., **Ramos, M.-H.**, 2017. Hydrological risk: Flood. In: Poljanšek, K., Marin Ferrer, M., De Groeve, T., Clark, I., (Eds.), *Science for disaster risk management 2017: knowing better and losing less*. EUR 28034 EN, Publications Office of the European Union, Luxembourg, Chapter 3.4. ISBN 978-92-79-60678-6, DOI: 10.2788/688605, JRC102482. Available online at : <http://drmkc.jrc.ec.europa.eu/knowledge/Challenges-Sharing>
53. Pappenberger, F., Pagano, T. C., Brown, J. D., Alfieri, L., Lavers, D. A., Berthet, L., (...), **Ramos, M. -H.**, Reinbold, D., Tibaldi, S., Silvano, P., (...), Zappa, M., Van der Zwan R. E. and Thielen-del Pozo, J., 2016. Hydrological Ensemble Prediction Systems around the Globe. In: Q. Duan, F. Pappenberger, J. Thielen-del Pozo, A. Wood, H. L. Cloke, J. Schaake (Eds.), *Handbook of Hydrometeorological Ensemble Forecasting*. Springer-Verlag Berlin Heidelberg 2016, DOI: 10.1007/978-3-642-40457-3_47-1
54. Creutin, J.-D., Hewitt, R., Tøft, L., **Ramos, M.-H.**, Borga, M., 2016. Energy companies as stakeholders. In Winder, N., H. Liljenström and R. Seaton (Eds) *The Quest for a Model-Stakeholder Fusion*, COMPLEX Final Scientific Report, Volume 1, 220 p. Upsala, Sweden. ISBN: 978-91-976048-1-9
55. La Jeunesse, I., C. Larrue, C. Furusho, **Ramos, M.-H.**, A. Browne, C. de Boer, R. Vidaurre, L. Crochemore, J.-P. Arrondeau, A. Penasso, 2016. Chapter 6: The Governance Context of Drought Policy and Pilot Measures for the Arzal Dam and Reservoir, Vilaine Catchment, Brittany, France. In: H. Bressers, N. Bressers, C. Larrue (eds.), *Governance for Drought Resilience - Land and Water Drought Management in Europe*. Springer eBook, Switzerland, 266 p. DOI: 10.1007/978-3-319-29671-5
56. Furusho, C., Vidaurre, R., La Jeunesse, I., **Ramos, M.-H.**, 2016. Chapter 11: Cross-cutting Perspective Freshwater. In: H. Bressers, N. Bressers, C. Larrue (eds.), *Governance for Drought Resilience – Land and Water Drought Management in Europe*. Springer eBook, Switzerland, 266 p. DOI : 10.1007/978-3-319-29671-5.
57. La Jeunesse, I., Larrue, C., Furusho, C., **Ramos, M.-H.**, Browne, A., de Boer, C. , Vidaurre, R., Crochemore, L., Arrondeau, J.-P., Penasso, A., 2016. Chapter 6: The Governance Context of Drought Policy and Pilot Measures for the Arzal Dam and Reservoir, Vilaine Catchment, Brittany, France. In: H. Bressers, N. Bressers, C. Larrue (Eds.), *Governance for Drought Resilience – Land and Water Drought Management in Europe*. Springer eBook, Switzerland, 266 p. DOI: 10.1007/978-3-319-29671-5.
58. Arrondeau, J.-P., Penasso, A., **Ramos, M.-H.**, Crochemore, L., 2015. Chapter "Pilot Freshwater". In: Bressers, N. (ed), *DROP Handbook – Practice measures example book, Benefit of governance in DROught adaptation – A handbook for regional water authorities*, The Netherlands, January 2015, 64 p.
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60. Furusho, C., Stomp, Q., Perrin, C., **Ramos, M.H.** (2015) Como as falhas das previsões podem ajudar a melhorar os modelos hidrológicos? Caso do seventos de cheia de 2013 na França. In A. R. Cardoso, A. L. L. Da Silveira, C. Poletto, F. Dornelles, J. A. Goldenfum, P. M. Moura, R. Tassi (Org.) *Agua Urbanas*, ABRH, Brasil, Capítulo 4: 63 - 82, ISBN 978-85-8868-638-0.
61. Perrin, C., **Ramos, M.-H.**, Andréassian, V., Nicolle, P., Crochemore, L., Pushpalatha, R., 2015. Improved rainfall-runoff modelling tools for low-flow forecasting: application to French catchments. In: Andreu J., A. Solera, J. Paredes-Arquiola, D. Haro-Monteagudo, H. van Lanen (Eds), *Drought: Research and Science-Policy Interfacing*, Taylor and Francis Group, London, ISBN 978-1-138-02779-4
62. **Ramos, M.H.**, Thielen, J., de Roo, A., 2010. Ensemble Hydrological Forecasting and Alert with the European Flood Alert System (EFAS): Case of the Danube Basin Floods in August 2005. In: Tanguy, J.-M. (Ed.), *Environmental Hydraulics: Practical Applications in Engineering*, Vol. 4, Chapter 5, p.47-61. Wiley-ISTE, October 2010, Hoboken, USA, 448 p.

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64. Baptista, M.B., Nascimento, N.O., **Ramos, M.H.**, Champs, J.R.B., 1998. Aspectos da evolução da urbanização e dos problemas de inundações em Belo Horizonte [Aspects of the evolution of the urbanization and flood problems in Belo Horizonte]. In: Braga, B., Tucci, C. & Tozzi, M. (Org.) *Drenagem Urbana: gerenciamento, simulação, controle*, Ed. Univ. UFRGS, ABRH: 39-50. [In Portuguese]

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65. Lemoine, A., **Ramos, M.H.** (2019) Towards improving the performance of water-energy systems by integrating large-scale climate services indicators. *Proc. SHF Conference HydroES 2019 (Quel avenir voulons-nous pour l'Hydro-électricité, en France et en Europe?)*, 29-30/01/2019, Grenoble, France, 6 p.
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BLOG POSTS (selection):

1. [A HEPEX researcher in the times of a pandemic](#) Posted on November 11, 2020. Contributed by Maria-Helena Ramos, HEPEX Portal, www.hepex.org, 2020
2. [Can hydrological forecasting contribute to Science & Art projects?](#) Posted on September 19, 2018. Contributed by Maria-Helena Ramos and Louise Arnal, HEPEX Portal, www.hepex.org, 2018.
3. [Survey results: views and opinions about Hepex and hydrological forecasting](#). Posted on July 18, 2018 by Maria-Helena Ramos, HEPEX Portal, www.hepex.org, 2018.
4. [Flood memory and historical marks of high waters](#). Posted on January 10, 2017 by Maria-Helena Ramos. Contributed by Maria-Helena Ramos, HEPEX Portal, www.hepex.org, 2017.
5. [WhatsApp chat between a forecaster and a modeller in hydrology](#). Posted on January 19, 2016 by Maria-Helena Ramos. HEPEX Portal, www.hepex.org, 2016.
6. [Going commercial in hydrological forecasting](#). Posted on September 16, 2015 by Maria-Helena Ramos. HEPEX Portal, www.hepex.org, 2015.
7. [Interactions between data assimilation and post-processing](#). Posted on August 4, 2015 by Maria-Helena Ramos. HEPEX Portal, www.hepex.org, 2015.
8. [On the economic value of hydrological ensemble forecasts](#). Contributed by Marie-Amélie Boucher, Maria-Helena Ramos and Ioanna Zalachori. Posted on January 31, 2014 by Marie-Amélie Boucher. HEPEX Portal, www.hepex.org, 2014.
9. [Multi-model approaches for river flow forecasting: blessing or burden?](#) Contributed by François Anctil, Maria-Helena Ramos and Florian Pappenberger. Posted on November 1, 2013 by François Anctil. HEPEX Portal, www.hepex.org, 2013.
10. [Testbeds in HEPEX: lessons learned and way forward](#). Contributed by Maria-Helena Ramos and Andy Wood. Posted on July 5, 2013 by Maria-Helena Ramos. HEPEX Portal, www.hepex.org, 2013.
11. [Floods: nothing we can do against nature?](#) Posted on July 2, 2013 by Maria-Helena Ramos. HEPEX Portal, www.hepex.org, 2013.
12. [Flash floods in the French western and central Pyrenees \(17-19 June 2013\)](#). Posted on June 25, 2013 by Maria-Helena Ramos. HEPEX Portal, www.hepex.org, 2013.
13. [HEPEX-SIP Topic: Communication and Decision Making \(1/4\): What is communication and decision making](#). Contributed by Florian Pappenberger, Liz Stephens, Jutta Thielen, Schalk-Jan van Andel and Maria-Helena Ramos. Posted on May 13, 2013 by Florian Pappenberger. HEPEX Portal, www.hepex.org, 2013.
14. [HEPEX-SIP Topic: Post-processing \(1/3\): What is hydrologic post-processing?](#) Contributed by Jan Verkade, Maria-Helena Ramos and Nathalie Voisin. Posted on May 2, 2013 by Jan Verkade. HEPEX Portal, www.hepex.org, 2013.

VIDEOS AND INTERVIEWS:

1. Video Irstea « Paroles d'experts » : Maria Helena RAMOS, risques liés à l'eau (Paris, October 2019). <https://www.youtube.com/watch?v=y40rt9h2WKE&list=PLYv2QGyt7v5Cz7hgV-e48xseUmgMLLyig&index=2> (1.5 min)
2. Interview on "Games in Geosciences" for the Radio Dutch 1, recorded at EGU 2018 in Vienne, on air on 12/04/2018 17h-18h (Interview by Rolf Hut). <https://www.nporadio1.nl/nieuws-en-co/uitzendingen/594642-2018-04-12> (approx. 2 min).
3. Video on the participation to the H2020 IMPREX project, within the series "Ils l'ont fait !" (Ademe, 2016), Paris, 27/02/2017. <https://www.youtube.com/watch?v=t4dT9OuFDwg> (approx. 5 min).
4. Invited talk at the round table organized by the French Ministry in charge of Higher Education and Research (MENESR "PCN Environnement") on the evaluation of European projects (SC5 Climate action, environment, resource efficiency and raw materials), Paris, 17/10/2016. <https://www.youtube.com/watch?v=Trfa6jiN06c> (approx. 25 min).