

CURRICULUM VITAE

Maria-Helena Ramos

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EDUCATION

- 2018 **HDR** French Habilitation (Habilitation à Diriger des Recherches), Sorbonne Université, Paris, France
2002 **Ph.D.** Atmospheric and Earth Sciences, Université Joseph Fourier Grenoble I, LTHE, Grenoble, France
1998 **M.Sc.** Sanitation, Environment and Water Resources, Federal University of Minas Gerais, BH, Brazil
1993 **B.Sc.** Civil Engineering, Engineering School of the Federal University of Minas Gerais, BH, Brazil

PROFESSIONAL AND RESEARCH EXPERIENCE

- 2007 – present **RESEARCH DIRECTOR** (*Directrice de recherche*, HDR) in Hydrology and hydrometeorology at INRAE, *Institut national de la recherche agronomique et de l'environnement* (CEMAGREF/IRSTEA in the period 2007-2019). Since 2020, associated with Université Paris-Saclay, France.
OCCASIONAL LECTURER in Hydrology at Sorbonne Université (Master), PolyTech Sorbonne (Engineer's degree), École Polytechnique (International Master), Paris, France.
- 2006 – 2007 **RESEARCH ASSOCIATE** in Hydrology at IRSTEA, *Institut national de recherche en sciences et technologies pour l'environnement et l'agriculture* (formerly, CEMAGREF), Lyon, France.
- 2005 – 2006 **POST-DOCTORAL RESEARCHER** in Flood forecasting at the EFAS (European Flood Awareness System) Team, Awardee of IES Exploratory Research fellowship of the European Commission, DG JRC, IES, Ispra, Italy.
- 2003 – 2005 **POST-DOCTORAL RESEARCHER** in Applied climatology to hydrology at IRSTEA, *Institut national de recherche en sciences et technologies pour l'environnement et l'agriculture* (formerly, CEMAGREF), Lyon, France.
- 1998 – 2002 **PHD CANDIDATE**, with fellowship awarded by the Brazilian Government (CAPES) at Université Joseph Fourier Grenoble I, IGE (LTHE), Grenoble, France.
- 1996 – 1998 **MSc CANDIDATE**, with fellowship awarded by the Brazilian Government (CNPq, FAPEMIG) at Federal University of Minas Gerais, Belo Horizonte, Brazil.
- 2002, '98, '94, '95 **ENGINEER** in hydrology at Golder Associates, ESC & ENGEO Consulting, BH, Brazil.

PROFESSIONAL APPOINTMENTS AND COMMITTEES

- 2022 – present **CO-CHAIR** of the [Programme Committee](#) of the European Geosciences Union (EGU): coordinator of the scientific programme of the annual General Assembly
- 2021 – present **MEMBER** of the EGU [Science for Policy Working Group](#)
- 2020 – present **MEMBER** of the [Scientific Steering Committee of the World Weather Research Programme](#) (WWRP) of the World Meteorological Organization (WMO)
- 2019 – present **ASSOCIATE PROFESSOR** at Université Laval (*Dép. génie civil et génie des eaux*), Québec, Canada
- 2017 – present **MEMBER ADVISORY BOARD** of European (EFAS) and Global (GloFAS) Flood Awareness Systems
- 2019 – 2023 **PRESIDENT** of the [Division on Hydrological Sciences](#) of EGU: member of the Council, the GA Programme Committee, the Darcy and Dalton Medal Committees, the Early Career Scientist Award Committee, the [Blog](#) editorial team and the [Twitter](#) management team
- 2019 – 2023 **CO-PRESIDENT** of the French CNRS INSU [EC2CO AT HYBIGE](#): project evaluation and grant attribution, coordination of about 20 expert evaluators, 40-60 projects per year
- 2018 – 2019 **VICE-PRESIDENT** of the EGU Division on Hydrological Sciences (HS)
- 2015 – 2018 **CHAIR** of the EGU Sub-Division on Hydrological Forecasting of the HS Division
- 2014 – 2018 **CO-CHAIR** of [HEPEX](#) (Hydrologic Ensemble Prediction Experiment)
- 2012 – 2014 **REGIONAL CHAIR** for Europe of [HEPEX](#) (Hydrologic Ensemble Prediction Experiment)

2011 – 2015	EXPERT MEMBER of the scientific committee of the French Institute IRD for project and fellowship evaluation, “Direction des Programmes de Recherche et de la Formation au Sud”.
2017	ENVIRONMENTAL EXPERT (VOLUNTEER) , member of the UN Disaster Assessment and Coordination (UNDAC) team of experts deployed to Peru (2 weeks) to assist in multi-sectoral rapid needs assessment and emergency management; mobilized through the European Civil Protection and Humanitarian Aid Operations (ECHO) of the European Commission. Video
2012	EXPERT MEMBER of the consultation committee GCTI-Brazil, French Government (Ministry of foreign affairs and Ministry of education and research)

VISITING SCIENTIST AND FELLOW PROGRAMS

2019 – present	FELLOW of the ECMWF Fellowship program at ECMWF, UK
Oct 2022 – Jun 2023	FELLOW of the WSL Senior Scientists Fellowship program in Birmensdorf, Switzerland, within Dr. Massimiliano Zappa’ research group and Dr. Manfred Stähli’s research unit
2023 (1 week)	VISITING SCIENTIST CAPES at Universidade Federal do Mato Grosso do Sul, Campo Grande, with Pr. Paulo Tarso & José Marcato Junior
2018 (2 months)	PROFESSORSHIP at University of Padova, Italy, invited by Pr. Marco Borga
2013 (6 months)	VISITING SCIENTIST at Université Laval, Canada, with Pr. François Anctil
2011 – present	Short visits (1 week to 1 month): VISITING SCIENTIST at: Fellowship awarded by CAPES at UFMS, Campo Grande, Brazil, with Pr. Paulo Tarso & Pr. José Marcato Junior (2023); Fellowship “Exploration Japon” awarded by the French Embassy in Japan (Tsukuba, Tokyo, Kyoto), with Dr. T. Yoshida (2017); NCAR, Boulder, USA, with Dr. A. Wood (2015); University of Cordoba, Argentina, with Pr. J. C. Bertoni (2015); UFMG, Brazil, with Pr. N. Nascimento (2015); NARO/NIRE, Tsukuba, with Dr. T. Masumoto (2015); ECMWF, UK, with Dr. F. Pappenberger (2014); UFRGS, Porto Alegre, Brazil, with Pr. W. Collischonn (2013); Fellowship awarded by FAPEMIG at UFMG, Brazil, with Pr. M. Baptista (2012); University of Newcastle, Australia, funded by PHC FAST, with Pr. G. Kuczera (2011)

RESEARCH PROJECTS & ROLE IN THE PROJECT

ONGOING:

- STARS4Water – Supporting Stakeholders for Adaptive, Resilient and Sustainable Water Management (Horizon Europe Framework Programme), 4.5 M€ (INRAE: 368 k€), 21 partners, PI: H. Duel (Stichting Deltares, NL), 2022-2026, **WP co-leader**.
- Destination Earth’s (DestinE) on-demand weather-induced extremes digital twin project, a flagship initiative by the European Commission, implemented by ECMWF, ESA and EUMETSAT. Led by Meteo-France, 28 partner organizations, 2022-2024, **coordinator at the partner level/sub-contractor in WP Hydrology**.
- WMO Expert Consultation – Feasibility study for flash flood forecasting approaches for West Africa (CREWS), 3 expert partners, since 2021, **PI for partner INRAE**.
- CIPRHES – Integrated chain for the hydrometeorological forecasting of low flows and droughts (ANR French Government), 750 k€ (INRAE Antony & Lyon: 243 k€), 5 partners, PI: C. Perrin (INRAE), 2021-2024, **WP co-leader**.
- DGPR SCHAPI/INRAE – Flood forecasting and warning (French Government; Ministry of Ecology), variable annual budget, since 2008, **PI for ensemble forecasting at the partner level**.

FINALIZED (SELECTED):

- PICS – Towards Integrated Nowcasting of Flash Flood Impacts (ANR French Government), 628 k€ (INRAE/Irstea Aix-en-Provence & Antony: 143 k€), 8 partners, PI: O. Payrastré (Univ. Gustave Eiffel), 2018-2022, **contributor**
- AQUACLEW – Advancing Quality of Climate Services for European Water (ERA4CS JPI Climate), 2.1 M€ (INRAE/Irstea: 363 k€), 8 partners, PI: B. Arheimer (SMHI), 2017-2020, **French case study coordinator**.
- IMPREX – Improving predictions and management of hydrological extremes (H2020 European Commission), 8 M€ (INRAE/Irstea: 320 k€), 23 partners, PI: B. van den Hurk (KNMI), 2015-2019, **WP leader**.
- COMPLEX – Knowledge Based Climate Mitigation Systems for a Low Carbon Economy (FP7 European Commission), 7 M€ (INRAE/Irstea: 200 k€), 17 partners, PI: N. Winder (Newcastle Univ.), 2012-2016, **Task leader**.

- DROP – Benefit of governance in drought adaptation (Interreg IVB NEW), 6.8 M€ (INRAE/Irstea: 283 k€), 11 partners, PI: N. Bressers (Waterschap Vechtstromen), 2013-2015, **coordinator at the partner level**.
- XEROCHORE – An Exercise to Assess Research Needs and Policy Choices in Areas of Drought (FP7 European Commission), 1.5 M€ (INRAE/Irstea: 60 k€), 11 partners, PI: A. Markandya (FEEM), 2008-2010, **contributor**.

MENTORING AND SUPERVISING, EXAMINING BOARDS, EVALUATION OF PROJECTS AND PROPOSALS

- **POSTDOC MENTORSHIP:** D. Peredo (2021-2022); V. Bourscheidt (2019-2020, visiting from Brazil).
- **PHD SUPERVISING: 1 ongoing**, E. Valdez Medina (with Université Laval, Quebec, 2019-present); **7 finalized main supervision**, A. Assis dos Reis (with UFMG, Brazil, 2017-2021); D. Peredo (2017-2021); A. Lemoine (2017-2021); M. Cassagnole (2016-2020); L. Crochemore (2013-2016); I. Zalachori (2009-2013); A. Randrianasolo (2009-2012); **Participation or co-supervision**, A. Chang (WSL, 2023), F. Neves Lima (UFMG, 2019), A. Caseri (INRAE, 2016); F. Bourgin (INRAE, 2014), L. Berthet (INRAE, 2010), A. Ben Daoud (INRAE, 2010), J.-A. Velazquez (Université Laval, 2010), J.-M. Lepioufle (INRAE, 2009).
- **MSc SUPERVISING:** 19 MSc (or equivalent) students supervised, since 2003.
- **EXAMINING BOARDS HDR & PHD:** 14 since 2010 (5 France, 4 Canada, 2 Netherlands, 1 Italy, 1 Denmark, 1 Tahiti).
- **EVALUATOR OF PROJECTS/PROPOSALS:** European Commission (Horizon Europe, ERC, EIC Horizon Prize), Canada (CRSNG, RIISQ), UK (NERC), CNRS-INSU AT HYBIGE (France)

ORGANIZATION OF CONFERENCE AND SCIENTIFIC SESSIONS

- **MEMBRE OF ORGANIZING AND SCIENTIFIC COMMITTEES:**
 HEPEX workshop “Forecasting across spatial scales and time horizons”, 13-15/09/2023, Norrköping, Sweden.
 SHF (Société Hydrotechnique de France) HydroES workshop, “L’Hydroélectricité, un catalyseur de la transition énergétique en Europe”, Lyon & Online, 22-24/09/2021.
 Joint Virtual Workshop on “Connecting global to local hydrological modelling and forecasting: scientific advances and challenges”, HEPEX-CEMS/ECMWF-GFP, Online, 29/06- 1/07/2021.
 7th HEPEX workshop “Breaking the Barriers”, University of Melbourne, Australia, 6-8/02/2018.
 SHF 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”, Grenoble & Chichilianne, France, 11-13/04/2011.
 HEPEX Workshop on “Post-processing and downscaling of atmospheric ensemble forecasts for hydrologic applications”, Toulouse, France, 15-18/06/2009.
 1st EFAS workshop on the use of “Ensemble Prediction Systems for flood forecasting”, European Commission DG JRC, Ispra, Italy, 21-22/11/2005.
- **CONVENER/CO-CONVENER OF SCIENTIFIC SESSIONS:** EGU (since 2010), IAHS/IUGG (since 2015), AGU (2016 & 2019)

EDITORIAL AND REVIEWER DUTIES

- **EDITORIAL DUTIES:**
 Associate Editor for Journal of Hydrology (2018-2020).
 Section editor for the Handbook of Hydrometeorological Ensemble Forecasting, 6 chapters (2013-2017).
 Guest editor for HESS (2016-2017) 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.
 Guest editor for Hydrological Processes (2013), 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.
 Guest editor for Advances in Geosciences (2011), 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.
- **REVIEWER FOR INTERNATIONAL JOURNALS:** HESS, Journal of Hydrology, Water Resources Research, BAMS, Journal of Hydrometeorology, Hydrological Sciences Journal, Atmospheric Science Letters, NHES, Sciences, HP, etc.

TRAINING COURSES (MATERIAL, CONCEPTION AND LECTURING)

- Co-author of 5 games (teaching and training material): (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). Publicly available [here](#).
- Course on flood forecasting and uncertainty assessment for flood forecasters in France (SCHAPI-SPC, Ministry of Environment), France, 2016-2022.
- Course on flood forecasting and uncertainty assessment to postgraduate students and professionals (operational flood forecasters), in Argentina (2015) and Brazil (2012, 2013, 2015, 2016, 2017, 2023).
- Course on hydrology at INFOMA for staff from Ministry of agriculture, Nancy, France, 2005-2007.

INVITED TALKS (SELECTED)

- EGU23 Union Symposium US5 “Allyship and supporting others for a more diverse and inclusive geosciences”, Participation to the round table, Vienna, 25/04/2023.
- Royal Society Meeting on Forecasting Natural and Social Systems, Talk: “Flood forecasting and its impact on making decisions that reduce risks”, London, 13/03/2023.
- EGU Webinar Series, “One study, four presentations: how to share your research in any conference format!”, Online webinar, 9/03/2023.
- Ateliers de financement PCN Horizon Europe Cluster Bio-Environnement, Ministère de l'enseignement supérieur, de la recherche, Contribution à la session : « Retours de deux évaluateurs des projets », Montpellier, 9/03/2023.
- Séminaire Retour d'expérience sur l'évaluation Horizon Europe, INRAE/INRAE Transfert, Contribution to: « Retour d'expérience sur l'évaluation de projets européens », Online webinar, 5/07/2022.
- Ateliers PREVIRISQ INONDATIONS, Round table : « Vers une meilleure connaissance des impacts des phénomènes extrêmes du niveau national au local ». Talk: « Retour sur les inondations de juillet 2021 en Allemagne et Belgique : une réflexion sur la gestion des incertitudes dans la prévision des crues », Le Grand-Bornand, 29/06/2022.
- Séminaire Expertise-Projet Internationale, INRAE, Direction Appui aux Politiques Publiques, Contribution to: « Retour d'expérience sur le montage et la conduite d'un projet d'expertise internationale au sein d'INRAE », Online webinar, 24/06/2022.
- Cité des sciences et de l'industrie, Round-table: “Pluies et inondations : mieux vaut prévenir !”, Duplex conference with Niger, Paris, 4/11/2021.
- Global Water Futures program of the University of Saskatchewan. Talk: “The quality and value of hydrological forecasts and predictions”, in the Topical Webinar Series hosted by the Core Modelling and Forecasting Team, Online webinar, 12/08/2021.
- 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.
- 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 round table on “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.
- Rencontres R&D 2018 Météo-France. Invited talk: “Prévision saisonnière des débits : comment dépasser l’usage de la climatologie ?”, Toulouse, France, 13/06/2018.
- WMO Global Conference on “Prosperity through Hydrological Services”. Invited keynote speaker on “Hydrological Products”, Geneva, Switzerland, 7-9/05/2018.
- 8th World Water Forum. Talks: “Agriculture and drought risk: driving action for change”; “How can supporting biodiversity benefit qualitative and quantitative water management?”, Side events organized by the French Water Partnership, Brasilia, Brazil, 19-23/03/2018.
- 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.
- 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.

PUBLICATIONS

- Over 120 publications, including 52 peer-reviewed scientific papers, 15 book chapters, 6 comments, prefaces or Newsletter articles, and 4 policy-briefs.
- More than 80 blog posts published since 2013, mainly on [HEPEX blog](#) and [EGU HS blog](#).
- ORCID: <https://orcid.org/0000-0003-1133-4164>; h-index 24 (on 9 May 2023 Scopus, Author ID: 9638664600)

SELECTED PUBLICATIONS:

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), 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), Escola de Engenharia da Universidade Federal de Minas Gerais, Belo Horizonte, Brasil, 89 pp. [in Portuguese]

PEER-REVIEWED PAPERS:

1. Charpentier-Noyer, M., Peredo, D., Fleury, A., Marchal, H., Bouttier, F., Gaume, E., Nicolle, P., Payrastra, O., **Ramos, M.-H.**, 2023: A methodological framework for the evaluation of short-range flash-flood hydrometeorological forecasts at the event scale, *Nat. Hazards Earth Syst. Sci.*, doi: [10.5194/nhess-2022-182](https://doi.org/10.5194/nhess-2022-182), accepted.
2. Dasgupta, A., Arnal, L., Emerton, R., Harrigan, S., Matthews, G., Muhammad, A., O’Regan, K., Pérez-Ciria, T., Ludwig M., Valdez, E., van Osnabrugge, B., Buontempo, C., Cloke, H., Pappenberger, F., Pechlivanidis, I., Prudhomme, C., **Ramos, M.-H.**, Salamon, P., 2023: Connecting hydrological modelling and forecasting from global to local scales: Perspectives from an international joint virtual workshop, *J Flood Risk Management*, 2023; e12880, <https://doi.org/10.1111/jfr3.12880>
3. Osina, M., Tilmant, A., Valdez, E., Anctil, F., **Ramos, M.-H.**, 2023: Hydropower System Operation and the Quality of Short-Term Hydrologic Ensemble Forecasts, *J. Water Resour. Plann. Manage.*, 149(5): 04023016. doi: [10.1061/JWRMD5.WRENG-5608](https://doi.org/10.1061/JWRMD5.WRENG-5608)
4. Assis dos Reis, A., Weerts, A., **Ramos, M.-H.**, Wetterhall, F., dos Santos Fernandes, W., 2022: Hydrological data and modeling to combine and validate precipitation datasets relevant to hydrological applications, *Journal of Hydrology: Regional Studies*, Vol. 44, December 2022, 101200, doi: [10.1016/j.ejrh.2022.101200](https://doi.org/10.1016/j.ejrh.2022.101200)
5. Lemoine, A., **Ramos, M.-H.**, Andréassian, V., 2022: Impacts des changements climatiques sur la gestion par courbes guides des réservoirs hydroélectriques, *LHB*, doi: [10.1080/27678490.2022.2101393](https://doi.org/10.1080/27678490.2022.2101393)
6. Peredo, D., **Ramos, M.-H.**, Andréassian, V., Oudin, L., 2022: Investigating hydrological model versatility to simulate extreme flood events. *Hydrological Sciences Journal*, 67:4, 628-645, doi: [10.1080/02626667.2022.2030864](https://doi.org/10.1080/02626667.2022.2030864)
7. Valdez, E. S., Anctil, F., **Ramos, M.-H.**, 2022: Choosing between post-processing precipitation forecasts or chaining several uncertainty quantification tools in hydrological forecasting systems, *Hydrol. Earth Syst. Sci.*, 26, 197–220, doi: [10.5194/hess-26-197-2022](https://doi.org/10.5194/hess-26-197-2022)
8. Cassagnole, M., **Ramos, M.-H.**, Zalachori, I., Thirel, G., Garçon, R., Gailhard, J., and Ouillon, T., 2021: Impact of the quality of hydrological forecasts on the management and revenue of hydroelectric reservoirs – a conceptual approach, *Hydrol. Earth Syst. Sci.*, 25, 1033–1052, <https://doi.org/10.5194/hess-25-1033-2021>

9. 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), <https://doi.org/10.1016/j.jhydrol.2020.125430>
10. 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)
11. 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](https://doi.org/10.3390/atmos11030237)
12. 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. <https://doi.org/10.1029/2019WR025700>
13. 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>
14. 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)
15. 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>
16. 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)
17. 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)
18. 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)
19. 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)
20. 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. [10.5194/hess-20-3109-2016](https://doi.org/10.5194/hess-20-3109-2016)
21. 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)
22. 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)
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- **2016:** *Science-Policy Brief: a climate variability viewpoint on renewable energy and electricity systems.* By Creutin, J.-D, **Ramos, M.-H.**, Hingray, B., François, B., Borga, M., Tøfte L. Policy brief of the FP7 COMPLEX project, 4 p. Available at: http://owsqip.itc.utwente.nl/projects/complex/images/uploaded_files/CRE-SPB_VF-20160731_VF.pdf (last seen 18/01/2018)
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BLOG POSTS (SELECTION):

1. [A lot of hydrology at EGU23, again!](https://blogs.egu.eu/divisions/hs) Posted on April 12, 2023. Contributed by Maria-Helena Ramos & Alberto Viglione, EGU HS Division blog, <https://blogs.egu.eu/divisions/hs>, 2023
2. [Some first impressions on the first hybrid EGU General Assembly](https://blogs.egu.eu/divisions/hs), Posted on June 15, 2022. Contributed by Maria-Helena Ramos & Bettina Schaepli, EGU HS Division blog, <https://blogs.egu.eu/divisions/hs>, 2022
3. [Hydrologists celebrate Earth Day 2022](https://blogs.egu.eu/divisions/hs), Posted on April 22, 2022. Contributed by Maria-Helena Ramos, Nilay Dogulu & Bettina Schaepli, EGU HS Division blog, <https://blogs.egu.eu/divisions/hs>, 2022
4. [Post #vEGU21 hydrological reflections](https://blogs.egu.eu/divisions/hs) Posted on May 5, 2021. Contributed by Maria-Helena Ramos, EGU HS Division blog, <https://blogs.egu.eu/divisions/hs>, 2021.
5. [A HEPEX researcher in the times of a pandemic](http://www.hepex.org) Posted on November 11, 2020. Contributed by Maria-Helena Ramos, HEPEX Portal, www.hepex.org, 2020.
6. [Can hydrological forecasting contribute to Science & Art projects?](http://www.hepex.org) Posted on September 19, 2018. Contributed by Maria-Helena Ramos and Louise Arnal, HEPEX Portal, www.hepex.org, 2018.
7. [WhatsApp chat between a forecaster and a modeller in hydrology.](http://www.hepex.org) Posted on January 19, 2016 by Maria-Helena Ramos. HEPEX Portal, www.hepex.org, 2016.
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9. [On the economic value of hydrological ensemble forecasts.](http://www.hepex.org) 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.
10. [Multi-model approaches for river flow forecasting: blessing or burden?](http://www.hepex.org) Contributed by François Anctil, Maria-Helena Ramos and Florian Pappenberger. Posted on November 1, 2013 by François Anctil. HEPEX Portal, www.hepex.org, 2013.

VIDEOS AND INTERVIEWS:

- Video Irstea « Paroles d'experts » : Maria Helena RAMOS, risques liés à l'eau (Paris, October 2019) [Here](#) (1.5 min)
- 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). [Here](#) (approx. 2 min).
- Video on the participation to the H2020 IMPREX project, within the series “Ils l'ont fait !” (Ademe, 2016), Paris, 27/02/2017. [Here](#) (approx. 5 min).
- 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. [Here](#) (approx. 25 min).