

CURRICULUM VITAE

Family name: Perrette

First name: Mahé

Date of Birth: 15th July 1986

Nationality: France / French

Education:

Institution (Date from - Date to)	Degree(s) or Diploma(s) obtained:
University of Southampton, National Oceanography Centre, (Southampton, UK), 2008 - 2009	M.Sc. in Oceanography Main areas of study: remote sensing, ecological modeling, climatology, physical oceanography, biogeological cycles Thesis: "Arctic phytoplankton blooms from satellites"
Ecole Centrale de Lyon (Lyon, France), 2005 - 2007	Master in Engineering Multidisciplinary course in engineering, ranging from mechanical and electrical engineering to formal mathematics and quantum physics. As a double-degree program with University of Southampton's M.Sc. in Oceanography
Lycée Pierre de Fermat (Toulouse, France), 2003 - 2005	Bachelor in Engineering (<i>Classes préparatoires aux Grandes Ecoles</i>) This is an intensive two-years undergraduate course with basic mathematical, physical, and computer science skills.

Language skills: Indicate competence on a scale of A1 to C2

Language	Reading	Speaking	Writing
French	C2	C2	C2
English	C2	C2	C2
German	C1	C1	C1
Italian	C1	C1	C1

Present position: research assistant at Potsdam Institute for Climate Impact Research and independent consultant in climate science

Years within the firm: 9 years

Key qualifications:

- Mahé has a wide scientific knowledge in the field of climatology and earth system modelling, with a solid experience as a programmer and data analyst, from climate model outputs to remote sensing observations. He has contributed to numerous scientific studies and peer-reviewed publications, including the IPCCAR5 report sea level chapter.
- Experience in interactive data visualization and web technologies in the ISIPEDIA project at PIK
- Independent scientific consulting, such as development of climate scenarios (end-client: GIZ), climate data mining (Copernicus CDS toolbox and API, client: IISD) and data processing (client: Climate analytics).
- Experience with international reports such as World Bank’s Turn Down the Heat reports series, and various capacity building activities with stakeholders (e.g. California Energy commission)
- Experience of applied science in non-scientific context and multidisciplinary teams with the NGO Climate Analytics, during climate negotiations in Cancun and Durban
- Undergraduate teaching at the University of Potsdam
- Public talks at scientific and non-scientific events (Berlin, Ramallah, Cancun, Durban...)

Professional experience:

Date From - Date to	Location	Company & reference person [1] (name & contact details)	Position	Description
Aug. 2019 to present	Potsdam, Germany	Potsdam Institute for Climate Impact Research (Katja Frieler, frieler@pik-potsdam.de)	Research Assistant, programmer (part time)	Development of the ISIMIP/ISIPEDIA platform for the diffusion of climate data to stakeholders: - Data processing pipeline - Interactive graphics (e.g. vegalite, D3) - Web development
August 2020	Berlin, Germany	Climate analytics (andreas.geiges@climateanalytics.org)	Independent consultant	Rewrite some of the data processing framework related to the climate action tracker (python)
February to	Remote work for	International Institute for	Independent consultant	Provide climate data (and visualization thereof) for infrastructure investment

June 2020	an organization in Swiss and Canada	Sustainable Development (Oshani Perera, operera@iisd.org and Andrea Bassi, andrea.bassi@ke-srl.com) https://www.iisd.org/		assessments with the Savi model. The work was centered on the Copernicus CDS API and Toolbox as part of a Copernicus-funded project (C3S_428h_IISD).
September 2019 to November 2019	Berlin (Germany)	End client: GIZ, via Robert Bierkandt robert.bierkandt@posteo.de	Independent consultant	Development of climate scenarios, drawing from various databases of downscaled climate model outputs and observations.
Jan. 2014 - Dec. 2017	Potsdam, Germany	Potsdam Institute for Climate Impact Research (Andrey Ganopolski, andrey.ganopolski@pik-potsdam.de)	Research assistant	Data analysis and modelling work on Greenland glaciers under climate change (GREENRISE project) The work also included teaching undergraduate seminars at the University of Potsdam, for Prof. S. Rahmstorf's Climate History lecture
Oct. 2010 - Dec. 2013	Potsdam, Germany	Potsdam Institute for Climate Impact Research (Malte Meinshausen, malte.meinshausen@pik-potsdam.de)	Research assistant	Development of global and regional sea level emulators in order to inform negotiators in real time during climate talks (PREVENT and SURVIVE projects, in the PRIMAP group) The work included being a scientific consultant for Climate Analytics at the UNFCCC climate negotiations, COP16 (Cancún, Mexico, 2010) and COP17 (Durban, South Africa, 2011). http://www.nature.com/news/the-science-behind-the-durban-talks-1.9554 Climate science talks in public events, e.g. Goethe Institut in Ramallah and Nablus (West Bank, January 2012)

Other relevant information, selected peer-reviewed publications (full list at <https://www.pik-potsdam.de/members/perrette/publications>):

- Vinke, K., M. A. Martin, S. Adams, F. Baarsch, A. Bondeau, D. Coumou, R. V. Donner, A. Menon, **M. Perrette**, K. Rehfeld, A. Robinson, M. Rocha, M. Schaeffer, S. Schwan, O. Serdeczny and A. Svirejeva-Hopkins (2016). Climatic risks and impacts in South Asia: extremes of water scarcity and excess, *Reg. Environ. Change*, *None*, 1--15, doi:10.1007/s10113-015-0924-9
- Schleussner, C.-F., T. Lissner, E. Fischer, J. Wohland, **M. Perrette**, A. Golly, J. Rogelj, K. Childers, J. Schewe, K. Frieler, W. Hare and M. Schaeffer (2016). Differential climate impacts for policy relevant limits to global warming: the case of 1.5°C and 2°C, *Earth Syst. Dyn.*, *7*, 327--351, doi:10.5194/esd-7-327-2016
- Hinkel, J., D. Lincke, A. T. Vafeidis, **M. Perrette**, R. J. Nicholls, R. S. Tol, B. Marzeion, X. Fettweis, C. Ionescu and A. Levermann (2014). Coastal flood damage and adaptation costs under 21st century sea-level rise., *Proc. Natl. Acad. Sci. USA*, *111*, 3292--7, doi:10.1073/pnas.1222469111
- Bittermann, K., S. Rahmstorf, **M. Perrette** and M. Vermeer (2013). Predictability of twentieth century sea-level rise from past data, *Environ. Res. Lett.*, *8*, 014013, doi:10.1088/1748-9326/8/1/014013
- **Perrette, M.**, F. Landerer, R. Riva, K. Frieler and M. Meinshausen (2013). A scaling approach to project regional sea level rise and its uncertainties, *Earth Syst. Dyn.*, *4*, 11--29, doi:10.5194/esd-4-11-2013
- **Perrette, M.**, A. Yool, G. Quartly and E. Popova (2011). Near-ubiquity of ice-edge blooms in the Arctic, *Biogeosciences*, *8*, 515--524, doi:10.5194/bg-8-515-2011

World Bank Reports

- World Bank, *Turn Down the Heat : Confronting the New Climate Normal*, 2014, doi:10.1596/978-1-4648-0437-3
- Schellnhuber, H. J.; Hare, B.; Serdeczny, O.; Schaeffer, M.; Adams, S.; Baarsch, F.; Schwan, S.; Coumou, D.; Robinson, A.; Vieweg, M.; Piontek, F.; Donner, R.; Runge, J.; Rehfeld, K.; Rogelj, J.; **Perrette, M.**; Menon, A.; Schleussner, C.-F.; Bondeau, A.; Svirejeva-Hopkins, A.; Schewe, J.; Frieler, K.; Warszawski, L.; Rocha, M. (2013). **Turn down the heat : climate extremes, regional impacts, and the case for resilience - full report**. Washington DC ; World Bank.
- Schellnhuber, H. J., Hare, W., Serdeczny, O., Adams, S., Coumou, D., Frieler, K., Martin, M., Otto, I. M., **Perrette, M.**, Robinson, A., Rocha, M., Schaeffer, M., Schewe, J., Wang,

X., Warszawski, L. (2012). **Turn Down the Heat: Why a 4°C Warmer World Must be Avoided** (pp. 1–106). Washington, D.C ; World Bank.