

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 Thesis: “Arctic phytoplankton blooms from satellites”
Ecole Centrale de Lyon (Lyon, France), 2005 - 2007	Master in Engineering
Lycée Pierre de Fermat (Toulouse, France), 2003 - 2005	Bachelor in Engineering (<i>Classes préparatoires aux Grandes Ecoles</i>) with a major in mathematics.

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: independent researcher and consultant in climate science for the Alfred Wegener Institut

Key qualifications:

- Mahé has a wide scientific knowledge in the field of climatology, earth system modeling and Bayesian analysis, 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.
- Freelance scientific consulting, such as development of climate scenarios (data processing) or modelling toolkits

- Experience with international reports such as World Bank's Turn Down the Heat reports series, public talks and capacity building activities with stakeholders (e.g. California Energy commission, side events during COPs)
- Undergraduate teaching at the University of Potsdam

Professional experience (last updated April 2025):

Date From - Date to	Location	Company & reference person [1] (name & contact details)	Position	Description
01/07/2024 to present	Salerno, Italy (remote for Potsdam, Germany)	Alfred Wegener Institute (Alex Robinson, alexander.robinson@awi.de)	Independent Researcher (50%)	Data assimilation in Earth System Models during the Last Glacial Maximum and present days, to help constrain future projections.
2/03/2024 to present	Salerno, Italy (remote for Berlin, Germany)	Climate Analytics, IIASA (Carl Schleussner, carl.schleussner@climateanalytics.org)	Independent researcher and consultant, guest scientist at Humboldt University	Processing of climate indicators for the PROVIDE and NGFS projects Development of the Climate Impact Explorer emulator with improved statistics
2/03/2024 to 31/06/2024	Salerno, Italy (remote for Potsdam, Germany)	Potsdam Institute for Climate Impact Research (matthias.mengel@pik-potsdam.de)	Independent researcher	Sea-level research and data processing tasks for the Potsdam Institute for Climate Impact Research
Aug. 2019 to 28/02/2024	Berlin, Germany	Self-employed (see refs in description)	Independent researcher and consultant	Climate research and consultancy with strong coding component, including: - Development of climate scenarios, drawing from various databases of downscaled climate model outputs and observations. Clients: Robert Bierkandt (info@robertbierkandt.com); KnowlEdge (Andrea Bassi, andrea.bassi@ke-srl.com);

				- Development of climate indicators within the Copernicus Data Store (CDS) toolbox. Client: <i>International Institute for Sustainable Development</i> (Liesbeth Casier, lcasier@iisd.org) - Code restructuring of an analysis tool for the UGANDA Climate litigation project. Client: <i>Climate Analytics</i> (carl.schleussner@climateanalytics.org)
Aug. 2019 to 31/12/2023	Potsdam, Germany	Potsdam Institute for Climate Impact Research (matthias.mengel@pik-potsdam.de)	Research Assistant	Development of a Bayesian model to make local sea-level projections (since 2022). Development of the ISIMIP/ISIPEDIA platform for the diffusion of climate data to stakeholders (since 2019).
Jan. 2014 - Dec. 2017	Potsdam, Germany	Potsdam Institute for Climate Impact Research (Andrey Ganopolski, andrey.ganopolski@pik-potsdam.de)		Data analysis and modeling 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)
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Other relevant information, selected peer-reviewed publications (full list at <https://www.pik-potsdam.de/members/perrette/publications>):

- Willeit, M., Ilyina, T., Liu, B., Heinze, C., **Perrette, M.**, Heinemann, M., Dalmonech, D., Brovkin, V., Munhoven, G., Börker, J., Hartmann, J., Romero-Mujalli, G., and Ganopolski, A. (2023). The Earth system model CLIMBER-X v1.0 – Part 2: The global carbon cycle, *Geosci. Model Dev.*, 16, 3501–3534, [doi:10.5194/gmd-16-3501-2023](https://doi.org/10.5194/gmd-16-3501-2023)
- Beckmann, J., **Perrette, M.**, Beyer, S., Calov, R., Willeit, M., and Ganopolski, A. (2019): Modeling the response of Greenland outlet glaciers to global warming using a coupled flow line–plume model, *The Cryosphere*, 13, 2281–2301, [doi:10.5194/tc-13-2281-2019](https://doi.org/10.5194/tc-13-2281-2019).
- 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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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.