

## Dr. SOMOT Samuel

[Web page: www.cnrm.meteo.fr/spip.php?article437](http://www.cnrm.meteo.fr/spip.php?article437) / ORCID : [0000-0002-5066-2921](https://orcid.org/0000-0002-5066-2921)

Age	44
Education	<ul style="list-style-type: none"><li>- Visiting scientist at ESSC (Reading, 5 months, 2003), OURANOS (Montréal, 2 months, 2007), NASA/GISS (New-York, 4 months, 2010) and LOCEAN (Paris, 1 year, 2012-2013)</li><li>- PhD in Climate physics at Université Paul Sabatier, Toulouse (2005)</li><li>- Engineer at Ecole National de la Météorologie (Meteo-France), Toulouse (2003)</li><li>- Master in Oceanography, Meteorology and Environnement at Paris 6 University, Paris (2000)</li><li>- Bachelor in Physics at Ecole Normale Supérieure de Lyon, Lyon (1997-2001)</li></ul>
Status	Full-time Senior Researcher (Ingénieur en Chef des Ponts des Eaux et des Forêts, ICPEF) at <a href="#">CNRM</a> (Centre National de Recherches Météorologiques), employed by Météo-France
Professional Activities	<ul style="list-style-type: none"><li>- <i>Senior Researcher</i> at CNRM</li><li>- <i>Head of the Regional Climate Modelling Research Team</i> at CNRM since 2016, the <a href="#">MOSCA team</a></li><li>- <i>Workpackage and task team leader</i> for the <a href="#">MISTRALS/HyMeX</a> programme</li><li>- <i>Member of the <a href="#">Med-CORDEX</a> Steering Committee</i> since 2009</li><li>- <i>CNRM PI</i> for the EUCP European project (H2020, 2017-2022) and C3S_34b_lot2 COPERNICUS project (2017-2021)</li><li>- <i>Contributing author</i> to the IPCC-AR4 (2007) an IPCC-AR6 (2021)</li><li>- <i>Lead Author</i> of the <a href="#">MAR1</a> (First Mediterranean Assessment Report)</li><li>- <i>Member of the Scientific Steering Group of <a href="#">Med-CLIVAR</a></i> since 2014</li><li>- <i>Scientific committee member of <a href="#">CLIMERI</a></i> (Infrastructure de Recherche)</li></ul>
<b>Awards</b> <ul style="list-style-type: none"><li>- <i>Med-CLIVAR Young Scientist Award</i> in 2011</li></ul>	
<b>Projet/Programme participation or Grants:</b> <ul style="list-style-type: none"><li>- participation to 5 international programmes: Med-CLIVAR, CORDEX, HyMeX, ChArMex, MerMex</li><li>- participation to 11 European projects in FP4 (MERCURE), FP5 (PRUDENCE), FP6 (ENSEMBLES, CECILIA, CIRCE), FP7 (CLIM-RUN, IMPACT2C), ERA-Net (CIRCLE-Med/CANTICO), Marie-Curie (MARmaED), COPERNICUS (C3S_34b_lot2) and HORIZON2020 (EUCP)</li><li>- participation to 16 national funded projects for ANR (CICLE, MEDUP, SCAMPEI, VURCA, MUSCADE, ASICS-MED, REMEMBER), LEFE (MISSTERRE, MISSTERRE-2), MERCATOR PPR (SiMed, SiMed-2), GICC (MedWater), ACI (CYPRIM) and ENVI-MED (CLIHMag, Med-MaHb, TANGRAM)</li></ul>	
<b>PhD supervisor/co-supervisor:</b> M. Herrmann (2007), J. Colin (2011), J. Beuvier (2011), P. Nabat (2014), Waldman (2016), Darmarki (2019), Fumière (2019), Doury (-), Caillaud (-)	
<b>Publications/Communications:</b> since 2006, more than 129 publications in peer-reviewed journal or	

books (Scopus: h-factor: 42, citations: 7165) and more than 157 communications in national and international conferences, including 38 invited/solicited/keynote communications). [See the Google Scholar list](#)

#### Database, transfer activities / Add-on value and technology transfer

- Contribution to the development of the Mediterranean version of the NEMO ocean model: [NEMOMED](#)
- Contribution to the development of the climate version of the ALADIN regional climate model: [CNRM-ALADIN](#)
- Contribution to the development of the [Med-CORDEX database](#) ([www.medcordex.eu](http://www.medcordex.eu)) of regional climate simulations
- Coordination of the CNRM effort for the WCRP CORDEX initiative leading to the public availability of CNRM-ALADIN regional climate simulations on the [ESGF distributed database](#)
- Scientific advisor for the French national climate service data portal ([DRIAS](#))

#### Specialist fields (ERC)

PE10_02	Meteorology, atmospheric physics and dynamics
PE10_03	Climatology and climate change
PE10_08	Oceanography (physical, chemical, biological, geological)
PE06_12	Scientific computing, simulation and modelling tools

#### Most relevant publications (Please explain the significance of this publication)

- **Somot S.**, Houpert L., Sevault F., Testor P., Bosse A., Taupier-Letage I., Bouin M.N., Waldman R., Cassou C., Sanchez-Gomez E., Durrieu de Madron X., Adloff F., P. Nabat, Herrmann M. (2018) Characterizing, modelling and understanding the climate variability of the deep water formation in the North-Western Mediterranean Sea. *Climate Dynamics*, 51(3), 1179-1210, [doi: 10.1007/s00382-016-3295-0](https://doi.org/10.1007/s00382-016-3295-0)
- Giorgi F., Torma C., Coppola E., Ban N., Schär C., **Somot S.** (2016) Enhanced summer convective rainfall at Alpine high elevations in response to climate warming. *Nature Geoscience*, 9, 584–589, [doi:10.1038/ngeo2761](https://doi.org/10.1038/ngeo2761)
- Ruti PM, **Somot S**, Giorgi F, Dubois C, Flaounas E, Obermann A, Dell’Aquila A, Pisacane G, Harzallah A, Lombardi E, Ahrens B, Akhtar N, Alias A, Arsouze T, Aznar R, Bastin S, Bartholy J, Béranger K, Beuvier J, Bouffies-Cloch e S, Brauch J, Cabos W, Calmanti S, Calvet J-C, Carillo A, Conte D, Coppola E, Djurdjevic V, Drobinski P, Elizalde-Arellano A, Gaertner M, Gal n P, Gallardo C, Gualdi S, Goncalves M, Jorba O, Jord  G, L’Heveder B, Lebeaupin-Brossier C, Li L, Liguori G, Lionello P, Maci s D, Nabat P, Onol B, Raikovic B, Ramage K, Sevault F, Sannino G, Struglia MV, Sanna A, Torma C, Vervatis V (2016) MED-CORDEX initiative for Mediterranean Climate studies. *Bull. Amer. Meteor. Soc.*, 97(7), 1187-1208, July 2016, [doi: http://dx.doi.org/10.1175/BAMS-D-14-00176.1](http://dx.doi.org/10.1175/BAMS-D-14-00176.1)
- **Somot S.**, Sevault F., D qu  M., Cr pon M. (2008) 21st century climate change scenario for the Mediterranean using a coupled Atmosphere-Ocean Regional Climate Model. *Global and Planetary Change*, 63(2-3), 112-126, [doi:10.1016/j.gloplacha.2007.10.003](https://doi.org/10.1016/j.gloplacha.2007.10.003)
- **Somot S.**, Sevault F., D qu  M. (2006) Transient climate change scenario simulation of the Mediterranean Sea for the 21st century using a high-resolution ocean circulation model. *Climate Dynamics*, 27(7-8), 851-879, [doi :10.1007/s00382-006-0167-z](https://doi.org/10.1007/s00382-006-0167-z)
- Jacob D., Petersen J., Eggert B., Alias A., Christensen O.B., Bouwer L., Braun A., Colette A., D qu  M., Georgievski G., Georgopoulou E., Gobiet A., Menut L., Nikulin G., Haensler A., Hempelmann N., Jones C., Keuler K., Kovats S., Kr ner N., Kotlarski S., Kriegsmann A., Martin E., van Meijgaard E., Moseley C., Pfeifer S., Preuschmann S., Radtke K., Rechid D., Rounsevell M., Samuelsson P., Somot S., Soussana J.-F., Teichmann C., Valentini R., Vautard R., Weber B. And Yiou P. (2014) EURO-CORDEX: New high-resolution climate change projections for European impact research. *Regional Environmental Change*, 14(2), 563-578. [doi: 10.1007/s10113-013-0499-2](https://doi.org/10.1007/s10113-013-0499-2)

