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RESEARCHER IN ATMOSPHERIC SCIENCES - CSL LEAD SCIENTIST OF THE
BALLOON BASELINE STRATOSPHERIC AEROSOL PROGRAM ⇒ B²SAP

Research Interests

- Aerosols optical and microphysical properties
- Stratospheric composition
- Aerosol - water vapor - cloud interactions
- Innovative instrumentation for atmospheric sciences
- Remote sensing / *In-situ* synergies

Higher Education

2017 - 2020 **PhD in Atmospheric Physics at LSCE-IPSL**, *Laboratoire des Sciences du Climat et de l'Environnement - Institut Pierre-Simon Laplace, CEA - CNRS - UVSQ - Paris-Saclay University*, Gif-sur-Yvette, France

Subject: *Meteorological Raman Lidar dedicated to the study of aerosols and water vapor coupled cycles*, funded by CEA: CFR grant. Supervisor: Dr. Patrick Chazette

Additional courses in:

- Boundary layer meteorology;
- Aerosols and clouds interactions;
- Signal processing.

2016 – 2017 **Master 2 in Physics, Environment and Processes**, *Paris-Saclay University*, Orsay, France. Ranked first

Atmospheric dynamics, pollutant dispersion, aerosols physics, data analysis.

2015 – 2016 **Master 1 in Fundamental Physics**, *Paris-Saclay University*, Orsay, France

Fluid dynamics, plasma physics (ϕ), particle ϕ , nuclear ϕ , laser ϕ , solid state ϕ , material engineering, neutronics, heat-transfer.

Research Experience

Appointments

2024 – Present **Research Scientist II**, *Cooperative Institute for Research in Environmental Sciences (CIRES) - University of Colorado & NOAA Chemical Sciences Laboratory*, Boulder, CO
NOAA funding from the Earth's Radiation Budget Initiative (ERB).

- Scientific animation and coordination of the B²SAP program.
- International collaborations (CNRS, NIWA, AWI, KNMI, Uni. of Mainz,...) ;
- International conferences presentations and peer-reviewed articles.

2022 – 2024 **Research scientist I**, *CIRES - University of Colorado & NOAA CSL*, Boulder, CO
NOAA ERB funding.

- Deployment of more than 60 POPS throughout the B²SAP network;
- Intensive Operation Periods (IOPs) and Field campaigns;
- Data analysis to study aerosol properties in the stratosphere;
- International conferences presentations and peer-reviewed articles.

2021 – 2022 **CNES Post-doctoral research fellow**, *Laboratoire de l'Atmosphère et des Cyclones (LACy) - Université de la Réunion - CNRS - Météo-France*, Saint-Denis, La Réunion, France,
Post-doctoral fellowship from the French space agency (CNES)

Origins, specification and radiative forcing of aerosols transported across the south-western Indian Ocean basin in connection with the Indian summer monsoon dynamics

- Weather patterns leading to atmospheric aerosol rivers in the Indian Ocean;
- Aerosol optical properties associated with atmospheric river transport;
- Lidar instruments and database management at the observatory;
- Results dissemination through talks, posters and peer-reviewed articles.

2017 – 2020 **PhD Student in atmospheric physics and lidar remote-sensing**, *Laboratoire des Sciences du Climat et de l'Environnement - Institut Pierre-Simon Laplace, CEA - CNRS - UVSQ - Paris-Saclay University, Gif-sur-Yvette, France*

- Meteorology, aerosol microphysics and inverse problems in atmospheric physics;
- Rayleigh, Mie, vibrational and rotational Raman scattering processes for lidar;
- Algorithm development and end-to-end simulator;
- Scientific valorization through talks, posters and peer-reviewed articles.

Field Campaigns

April 2025 **B²SAP campaign**, *Balloon launches from Koror, PW (7°N)*, Establishment of a new B²SAP station in the deep tropics. Cooperation with the Alfred Wagner Institute of Germany (AWI) and the local CRRF.

2024 **B²SAP campaign**, *Balloon launches from Paramaribo, SR (5.8°N)*, Establishment of a new B²SAP station in the deep tropics. Cooperation with KNMI and the local Meteorological office MDS.

2023 **B²SAP campaign**, *Balloon launches from San Jose, CR (9°N)*, Inter-comparison and validation of instruments and launch from a deep tropics location.

2023 **SABRE campaign**, *Balloon launches from Utqiagvik, AK (71°N)*, Support of the SABRE high altitude aircraft flights out Fairbanks with concomitant instrumented balloon launches. Measurements of ozone, water vapor and aerosol size distribution in the stratosphere, in particular in the polar vortex.

2022 **TR²Ex campaign**, *Tonga Rapid Response Experiment*, International campaign involving in-situ balloonborne and remote-sensing measurements of the stratospheric aerosol volcanic plume from the Hunga-Tonga plinian eruption, at the Maïdo station of the Reunion Island Observatory for Atmospheric Physics (OPAR)
Instrument operation, signal processing, analysis and scientific valorization of lidar data

2020 **EIucidate the Role of Clouds-Circulation Coupling in ClimAte**, *EUREC⁴A*, International airborne measurement campaign in Barbados
Horizontal lidar measurements from the ATR-42 aircraft.

2019 **Lacustrine - Water vApor Isotope InVentory Experiment - L-WAIVE**, Airborne measurement campaign using ultra-light aircraft in Lathuile, South-extremity of the Annecy lake in French Alps
Instrumental synergy between airborne and ground-based lidars with airborne cavity ring-down spectroscope, meteorological probes and aerosol granulometer.

Grants

2025 **Reflective fellowship**, *PI*, \$173,465, Critical SRM-relevant research continuation - B²SAP.

2025 **ARIA (UK)**, *Co-I*, £1,305,880, Ice-Nucleating Particles in the Upper Troposphere: Advancing Cirrus Control and Experimental Science Strength "INPUT:ACCESS"; PI of the CU Boulder awarded grant, \$661,970.

2024 **Innovative Research Program**, *PI*, \$27,885, Advancing understanding of stratospheric aerosol: A novel balloon-borne collection/off-line analysis approach.

Teaching & Mentorship

2023-Present **Supervision and mentoring**, Dr. Katie Smith, Research Scientist II - B²SAP program and Joey Taylor, Associate Scientist II - NightFox project.

- 2020 **Mentoring**, Master 2 Internship of Simona Latchabady, Consistency of Wind Measurements by UHF Radar and Radiosounding – Application to the ADM-AEOLUS Mission and Aerosol Transport.
- 2018 **Mentoring**, Master 2 Internship of Gwendoline Smith, Study of Aerosols from Biomass Burning in Namibia.
- 2018 – 2019 **Practical physics work supervision**, 30 hours, Paris-Saclay University
Optics and Electricity - undergraduate level.
- 2015 – 2017 **Private lessons and student mentoring**, 3h/week, Math, Physics, English
Students from highschool and undergraduate levels.

Peer-reviewed Publications

Published

- 2024 **Radiative impact of the Hunga stratospheric volcanic plume: role of aerosols and water vapor over Réunion Island**, M.Sicard, **A. Baron**, M.Ranaivombola, D.Gantois, T.Millet, P.Sellitto, N.Bègue, H. Bencherif, G.Payen, N.Marquestaut, and V.Duflot
Published in *Atmospheric Chemistry and Physics*, DOI: 10.5194/acp-25-367-2025
- 2024 **Baseline Balloon Stratospheric Aerosol Profiles (B²SAP) — Perturbations in the Southern Hemisphere, 2019-2022**, E.Asher, **A. Baron**, P.Yu, M.Todt, P.Smale, B.Liley, R.Querel, T.Sakai, I.Morino, Y.Jin, T.Nagai, O.Uchino, E.Hall, P.Cullis, B.Johnson, and T.Thornberry
Published in *JGR Atmospheres*, DOI 10.1029/2024JD041581
- 2024 **Evidence of a dual African and Australian biomass burning influence on the vertical distribution of aerosol and carbon monoxide over the Southwest Indian Ocean basin in early 2020**, N.Bègue, **A. Baron**, G.Krysztofiak, G.Berthet, C.Kloss, F.Jégou, S.Khaykin, M.Ranaivombola, T.Millet, T.Portafaix, V.Duflot, P.Keckhut, H.Vérèmes, G.Payen, M.K.Sha, P.-F.Coheur, C.Clerbaux, M.Sicard, T.Sakai, R.Querel, B.Liley, D.Smale, I.Morino, O.Ochino, T.Nagai, P.Smale, J.Robinson, and H.Bencherif
Published in *Atmospheric Chemistry and Physics*, DOI: 10.5194/acp-24-8031-2024
- 2024 **Microphysical Simulation of the 2022 Hunga Volcano Eruption Using a Sectional Aerosol Model**, C.Li, Y.Peng, E.Asher, **A. Baron**, M.Todt, T.hornberry, S.Evan, J.Brioude, P.Smale, R.Querel, K.Rosenlof, L.Zhou, J.u, K.Qie, J.Bian, O.Toon, Y.Zhu, P.Yu
Published in *Geophysical Research Letters*, DOI: 10.1029/2024GL108522
- 2023 **Early Evolution of the Stratospheric Aerosol Plume Following the 2022 Hunga Tonga-Hunga Ha’apai Eruption: Lidar Observations From Reunion (21°S, 55°E)**, **A. Baron**, P.Chazette, S.Khaykin, G.Payen, N.Marquestaut, N.Bègue and, V.Duflot
Published in *Geophysical Research Letters*, DOI: 10.1029/2022GL101751
- 2023 **Aerosol Optical Properties and Types over Southern Africa and Reunion Island Determined from Ground-Based and Satellite Observations over a 13-Year Period (2008–2021)**, M.Ranaivombola, N.Bègue, H.Bencherif, T.Millet, V.Sivakumar, V.Duflot, **A. Baron**, N.Mbatha, S.Piketh, P.Formenti and, P.Goloub
Published in *Remote Sensing*, DOI: 10.3390/rs15061581
- 2022 **Global perturbation of stratospheric water and aerosol burden by Hunga eruption**, S.Khaykin, A.Podglajen, F.Ploeger, J.-U.Grooß, F.Tencé, S.Bekki, K.Khlopenkov, K.Bedka, L.Rieger, **A. Baron**, S.Godin Beekmann, B.Legras, P.Sellitto, T.Sakai, J.Barnes, O.Uchino, I.Morino, T.Nagai, R.Wing, G.Baumgarten, M.Gerding, V.Duflot, G.Payen, J.Jumelet, R.Querel, B.Liley, A.Bourassa, A.Hauchecorne, F.Ravetta, B.Clouser, and A.Feofilov
Published in *Nature Communication Earth & Environment*, DOI: 10.1038/s43247-022-00652-x

- 2022 **Extreme temperature events monitored by Raman lidar – consistency and complementarity with spaceborne observations and modelling**, [A. Baron](#), [P. Chazette](#) and [J. Totems](#)
Published in *Meteorological Application*, DOI: 10.1002/met.2062
- 2022 **Aerosol characterization of the stratospheric plume from the volcanic eruption at Hunga Tonga January 15th 2022**, [C. Kloss](#), [P. Sellitto](#), [J.-B. Renard](#), [A. Baron](#), [N. Bègue](#), [B. Legras](#), [G. Berthet](#), [E. Briaud](#), [E. Carboni](#), [C. Duchamp](#), [V. Duflot](#), [P. Jacquet](#), [N. Marquestaut](#), [J.-M. Metzger](#), [G. Payen](#), [M. Ranaivombola](#), [T. Roberts](#), [R. Siddans](#) and [F. Jégou](#)
Published in *Geophysical Research Letters*, DOI: 10.1029/2022GL099394
- 2022 **EUREC⁴A observations from the SAFIRE ATR42 aircraft**, [S. Bony](#), [M. Lothon](#), [J. Delanoë](#), [P. Coutris](#), [J.-C. Etienne](#), [F. Aemisegger](#), [A.L. Albright](#), [T. André](#), [H. Bellec](#), [A. Baron](#), [J.-F. Bourdinot](#), [P.-E. Brilouet](#), [A. Bourdon](#), [J.-C. Canonici](#), [C. Caudoux](#), [P. Chazette](#), [M. Cluzeau](#), [C. Cornet](#), [J.-P. Desbios](#), [D. Duchanoy](#), [C. Flamant](#), [B. Fildier](#), [C. Goubeyre](#), [L. Guiraud](#), [T. Jiang](#), [C. Lainard](#), [C. Le Gac](#), [C. Lendroit](#), [J. Lerno](#), [T. Perrin](#), [F. Pouvesle](#), [P. Richard](#), [N. Rochetin](#), [K. Salaün](#), [A. Schwarzenboeck](#), [G. Seurat](#), [B. Stevens](#), [J. Totems](#), [L. Touzé-Peiffer](#), [G. Vergez](#), [J. Vial](#), [L. Villiger](#), [R. Vogel](#)
Published in *Earth System Science Data*, DOI: 10.5194/essd-14-2021-2022
- 2022 **Mesoscale spatio-temporal variability of airborne lidar-derived aerosol properties in the Barbados region during EUREC⁴A**, [P. Chazette](#), [A. Baron](#), and [C. Flamant](#)
Published in *Atmospheric Chemistry and Physics*, DOI: 10.5194/acp-22-1271-2022
- 2021 **Tropospheric ozone variability over Oceania and Southern Pacific during the 2019-20 Australian bushfires**, [N. Bègue](#), [H. Bencherif](#), [F. Jégou](#), [H. Véremes](#), [S. Khaykin](#), [G. Krysztofiak](#), [T. Portafaix](#), [V. Duflot](#), [A. Baron](#), [G. Berthet](#), [C. Kloss](#), [G. Payen](#), [P. Keckhut](#), [P.-F. Coheur](#), [C. Clerbaux](#), [D. Smale](#), [J. Robinson](#), [R. Querel](#), and [P. Smale](#)
Published in *Remote Sensing*, DOI: 10.3390/rs13163092
- 2021 **Mitigation of bias sources for atmospheric temperature and humidity as retrieved from the mobile weather & aerosol Raman lidar**, [J. Totems](#), [P. Chazette](#) and [A. Baron](#)
Published in *Atmospheric Measurement Techniques*, DOI: 10.5194/amt-14-7525-2021
- 2021 **A network of water vapor Raman lidars for improving heavy precipitation forecasting in southern France – Introducing the WaLiNeAs initiative**, [C. Flamant](#), [P. Chazette](#), [O. Caumont](#), [P. Di Girolamo](#), [A. Behrendt](#), [M. Sicard](#), [J. Totems](#), [D. Lange](#), [N. Fourrié](#), [P. Brousseau](#), [C. Augros](#), [A. Baron](#), [M. Cacciani](#), [A. Comerón](#), [B. De Rosa](#), [V. Ducrocq](#), [P. Genau](#), [L. Labatut](#), [C. Muñoz-Porcar](#), [A. Rodríguez-Gómez](#), [D. Summa](#), [R. Thundathil](#) and [V. Wulfmeyer](#)
Published in *Bulletin of Atmospheric Science and Technology*, DOI: 10.1007/s42865-021-00037-6
- 2021 **The lacustrine-water vapor isotope inventory experiment L-WAIVE**, [P. Chazette](#), [C. Flamant](#), [H. Sodemann](#), [J. Totems](#), [A. Monod](#), [E. Dieudonné](#), [A. Baron](#), [A. Seidl](#), [H.C. Steen-Larsen](#), [P. Doira](#), [A. Durand](#) and [S. Ravier](#)
Published in *Atmospheric Chemistry and Physics*, DOI: 10.5194/acp-21-10911-2021
- 2021 **EUREC⁴A**, [B. Stevens](#), [S. Bony](#), [D. Farrell](#), [...], [A. Baron](#), [...], +100 co-authors
Published in *Earth System Science Data*, DOI: 10.5194/essd-13-4067-2021
- 2020 **Trade-wind clouds and aerosols characterized by airborne horizontal lidar measurements during the EUREC⁴A field campaign**, [P. Chazette](#), [J. Totems](#), [A. Baron](#), [Cyril Flamant](#) and [Sandrine Bony](#)
Published in *Earth System Science Data*, DOI: 10.5194/essd-12-2919-2020
- 2020 **Remote sensing of two exceptional winter aerosol pollution events and representativeness of ground-based measurements**, [A. Baron](#), [P. Chazette](#) and [J. Totems](#)
Published in *Atmospheric Chemistry and Physics*, DOI: 10.5194/acp-2019-464

2019 **Evidence of the complexity of aerosol transport in the lower troposphere on the Namibian coast during AEROCLO-sA**, *P.Chazette, C.Flamant, J.Totems, M.Gaetani, G.Smith, A.Baron, X.Landsheere, K.Desboeufs, J.-F.Doussin, and P.Formenti*
Published in *Atmospheric Chemistry and Physics*, DOI: 10.5194/acp-19-14979-2019

Preprinted or under review

2025 **Chapter 3: Volcanic cloud evolution and progression in the atmosphere**, *Adam Bourassa, Sergey Khaykin, Valentina Aquila, Alexandre Baron, Landon Rieger, Alexei Rozanov, Rei Ueyama*
APARC Special report on the Hunga eruption, Under review

2025 **Evidence of an Ozone Mini-Hole Structure in the Early Hunga Tonga Plume Above the Indian Ocean**, *T.Millet, H.Bencherif, T.Portafaix, N.Bègue, A.Baron, V.Duflot, C.Clerbaux, P.-F. Coheur, A.Pazmino, M.Sicard, J.-M.Metzger, G.Payen, N.Marquestaut, and S.Godin-Beekmann*
Under review in *Atmospheric Chemistry and Physics*, DOI 10.5194/egusphere-2024-2350

Communications (1st authored only)

2024 **Stratospheric Aerosol layer responses to volcanic and wildfire perturbations**, *Alexandre Baron, Katie Smith, Elizabeth Asher, Emrys Hall, Patrick Cullis, Nicolas Mastromonaco, Alex Fritz, Stephanie Evan, Jerome Brioude, Jean-Marc Metzger, Matthew Martinsen, Darryl Kuniyuki, David Nardini, Penny Smale, Ben Liley, Richard Querel, and Troy Thornberry*
AGU 2024 - Poster

2024 **Stratospheric Aerosol Effective Radius Response to Volcanic and Wildfire Perturbations – Insight from the B²SAP Network**, *Alexandre Baron, Kate Smith, Elizabeth Asher, Michael Todt, Emrys Hall, Patrick Cullis, Bryan Johnson, Matthew Martinsen, Darryl Kuniyuki, David Nardini, Gary Morris, Stephanie Evan, Jerome Brioude, Jean-Marc Metzger, Penny Smale, Richard Querel, and Troy Thornberry*
NOAA GML Annual Conference 2024 - Talk

2024 **Tracking the Uncommon Optical and Microphysical Properties of the Hunga Aerosols**, *Alexandre Baron, Elizabeth Asher, Michael Todt, Emrys Hall, Patrick Cullis, Bryan Johnson, Stephanie Evan, Jerome Brioude, Jean-Marc Metzger, James Flynn, Paul Walter, Sergio Alvarez, Gary Morris, Matthew Martinsen, Darryl Kuniyuki, David Nardini, Penny Smale, Richard Querel, RuShan Gao, and Troy Thornberry*
Hunga eruption APARC Special meeting – Paris 2024 - Talk

2024 **The NOAA Balloon Baseline Stratospheric Aerosol Profiles – In situ insight on the stratospheric aerosol layer**, *Alexandre Baron, Elizabeth Asher, Katie Smith, Troy Thornberry and the B²SAP team*
EGU 2024 - Talk

2023 **The Uncommon Optical and Microphysical Properties of Hunga Tonga Aerosols**, *A.Baron, E.Asher, V.Duflot, M.Todt, G.Payen, E.Hall, P.Cullis, B.Johnson, S.Evan, J.Brioude, J.-M.Metzger, J.Flynn, P.Walter, S.Alvarez, G.Morris, M.Martinsen, D.Kuniyuki, D.Nardini, P.Smale, B.Liley, R.Querel, T.Sakai, I.Morino, Y.Jin, T.Nagai, O.Uchino, R.S.Gao, K.Rosenlof, and T.Thornberry*
AGU 2023 - Talk

2023 **Properties of the Hunga-Tonga Stratospheric Aerosol Plume: Lidar and In Situ Observations from Reunion Island (21°S, 55°E)**, *A.Baron, E.Asher, V.Duflot, M.Todt, P.Chazette, S.Khaykin, G.Payen, N.Bègue, S.Evan, J.Brioude, J.Barnes, H.Telg, D.Hurst, E.Hall, K.Xiong, R.Gao and, T.Thornberry*
AMS 2023 - Talk

- 2022 **Monitoring of the Hunga-Tonga stratospheric plume optical properties at La Réunion Island**, *A. Baron, G. Payen, Y. Hello, J.-P. Cammas, N. Marquestaut, J. Brioude, S. Evan, N. Bègue, and V. Duflot*
ILRC 2022 - Virtual Poster
- 2022 **Early evolution of the Hunga – Tonga Volcanic Plume from Lidar Observations at Reunion Island (Indian Ocean, 21°S, 55°E)**, *A. Baron, G. Payen, V. Duflot, P. Chazette, S. Khaykin, Y. Hello, N. Marquestaut, M. Ranaivombola, N. Bègue, T. Portafaix, and J.-P. Cammas*
EGU 2022 - Talk
- 2022 **Early evolution of the Hunga – Tonga Volcanic Plume from Lidar Observations at Reunion Island (Indian Ocean, 21°S, 55°E)**, *A. Baron, P. Chazette, S. Khaykin, G. Payen, N. Marquestaut, N. Bègue, Thierry Portafaix, and V. Duflot*
SPARC - SSiRC workshop 2022 - Talk
- 2022 **Remote-sensing of aerosol atmospheric rivers over the southwest Indian Ocean in September 2017: origins, evolution and impacts**, *A. Baron, V. Duflot, P. Chazette, M. Gaetani, C. Flamant, J. Cuesta, G. Payen, P. Keckchut, and P. Goloub*
EGU 2022 - Talk
- 2021 **Remote-sensing of aerosol atmospheric rivers: multi-instruments observations over the southwest Indian Ocean in September 2017:**, *A. Baron, V. Duflot, P. Chazette, G. Payen, P. Keckchut, and P. Goloub*
ACTRIS-FR General Assembly 2021 - Talk
- 2020 **Relative humidity fields in the Annecy Alpine valley observed by Raman lidar in the framework of L-WAIVE**, *A. Baron, P. Chazette and J. Totems*
EGU 2020 - virtual talk, DOI: 10.5194/egusphere-egu2020-17672
- 2019 **Cold wave of February 2018 above Europe observed by rotational Raman lidar**, *A. Baron, P. Chazette and J. Totems*
EGU 2019 - Talk, Abstract : Vol. 21, EGU2019-4012, 2019
- 2018 **Events of intense aerosol pollution over Paris Area during winter 2016-2017 observed by Raman lidar**, *A. Baron, P. Chazette and J. Totems*
EGU 2018 - Poster, Abstract: Vol. 20, EGU2018-3433, 2018

Peer-Review Contributions

Journals **List of journal links**, *Scientific Reports - Atmospheric Chemistry & Physics - GRL - JGR Atmospheres - Biogeosciences - Optics and Laser Technology - Applied Sciences - Atmosphere - Remote Sensing*

Proposals **List of proposal links**, *NOAA SBIR - NOAA ERB*

Outreach and Media coverage

2024 **New York Times article**, *The U.S. Is Building an Early Warning System to Detect Geoengineering*

2025 **USA Today article**, *Is anyone deliberately tampering with our atmosphere? If so, this crew is watching*

2022-Present **Balloon launches with middle school classes.**

- 2022 **Hunga Aerosol Plume Observations**, *A. Baron et al.*, Invited talks
- Reuniwatt webinar, Virtual, moderated by V.-H. Peuch
 - Cité du volcan, La Réunion
 - Journée de l'Académie des laves de Ste Rose, La Réunion
 - Classe préparatoire Lycée Leconte De Lisle, La Réunion

References

NOAA CSL Group Leader: Joshua P. Schwarz (joshua.p.schwarz@noaa.gov)
OPAR LACy CNES Postdoc supervisor: Valentin Duflot (valentin.duflot@univ-reunion.fr)
CEA LSCE PhD supervisor: Patrick Chazette (patrick.chazette@lsce.ipsl.fr)

Skills

Languages French: *Mothertongue* - English: *Fluent* - Spanish: *Proficient*
Computing Microsoft, Mac and Linux, Python, MATLAB, Office Pack, L^AT_EX
Specific Written and oral communication skills - Scientific curiosity - Team spirit

Hobbies

Sports Rock Climbing - MTB - Hiking - Yoga
Other DIY - Cooking - Mechanics
Volunteering Board member in an Association for Community-supported Agriculture (AMAP in French)