



# Pierre Vigneron

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## Publications

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**2024** - Aikaterini Premeti, Maria Pia Bucci, Karin Heidlmayr, Pierre Vigneron, Frédéric Isel. Neurodynamics of selected language processes involved in word reading: An EEG study with French dyslexic adults. *Journal of Neurolinguistics*, 2024, 71, pp.101201. (10.1016/j.jneuroling.2024.101201). (hal-04782988)  
<https://hal.science/hal-04782988v1>

**2022** - Pierre Vigneron, Jean-Baptiste Champenois, Paul Jourda, Celia Alameda Angulo, Sylvie Granet, et al.. Babylon: R&D program for French Bituminized Waste Products acceptability in deep geological repository. International Conference on Nuclear Fuel Cycle GLOBAL 2022, SFEN, Jul 2022, Reims, France. Technical sessions-Topic6\_Waste Management\_6a-Strategy, Options. (cea-03847147)  
<https://cea.hal.science/cea-03847147v1>

**2022** - Gauthier Hulot, Pierre Vigneron, Louis Chauvet, Jean-Michel Leger, Thomas Jager. Self-calibrated absolute vector data produced by the ASM absolute magnetometers on board the Swarm satellites : results, availability and prospect. ESA Living Planet Symposium, May 2022, Bonn, Germany. 2022. (cea-04454614)  
<https://cea.hal.science/cea-04454614v1>

**2022** - Gauthier Hulot, Pierdavide Coisson, Louis Chauvet, Pierre Vigneron, Jean-Michel Leger, et al.. Swarm ASM burst-mode L1b data and the L2 whistler product they allow to derive. LPS 2022 - 2022 Living Planet Symposium, ESA, May 2022, Bonn, Germany. (cea-04454612)  
<https://cea.hal.science/cea-04454612v1>

**2021** - Erwan Thébault, Gauthier Hulot, Benoit Langlais, Pierre Vigneron. A Spherical Harmonic Model of Earth's Lithospheric Magnetic Field up to Degree 1050. *Geophysical Research Letters*, 2021, 48 (21), (10.1029/2021GL095147). (hal-03420984)  
<https://nantes-universite.hal.science/hal-03420984v1>

**2021** - Gauthier Hulot, Jean-Michel Leger, Lasse B. N. Clausen, Florian Deconinck, Pierdavide Coisson, et al.. NanoMagSat, a 16U nanosatellite constellation high-precision magnetic project to initiate permanent low-cost monitoring of the Earth's magnetic field and ionospheric environment. EGU21 - The EGU General Assembly 2021, Apr 2021, Vienne, Austria. (10.5194/egusphere-egu21-14660). (cea-03343593)  
<https://cea.hal.science/cea-03343593v1>

**2021** - Yanyan Yang, Gauthier Hulot, Pierre Vigneron, Xuhui Shen, Zhima Zeren, et al.. The CSES Global Geomagnetic Field Model (CGGM): An IGRF type global geomagnetic field model based on data from the China Seismo-Electromagnetic Satellite.. *Earth Planets and Space*, 2021, 73, pp.45. (10.1186/s40623-020-01316-w). (hal-03092984v2)  
<https://hal.science/hal-03092984v2>

- 2021** - Pierre Vigneron, Gauthier Hulot, Jean-Michel Leger, Thomas Jager. Using improved Swarm's experimental absolute vector mode data to produce a candidate Definitive Geomagnetic Reference Field (DGRF) 2015.0 model. Earth Planets and Space, 2021, 73 (197), <https://doi.org/10.1186/s40623-021-01529-7>. (10.1186/s40623-021-01529-7). (cea-03409434) <https://cea.hal.science/cea-03409434v1>
- 2020** - Gauthier Hulot, Pierre Vigneron, Jean-Michel Léger, Thomas Jager. On the self-calibrated absolute vector data produced by the ASM absolute magnetometers on board the Swarm satellites, results and prospect. EGU General Assembly 2020, May 2020, Vienne, Austria. (10.5194/egusphere-egu2020-10515). (cea-03141557) <https://cea.hal.science/cea-03141557v1>
- 2019** - Pierre Vigneron. Mesures vectorielles expérimentales des instruments ASM de la mission SWARM, : du commissioning à la production de modèles de champs géomagnétiques. Sciences de la Terre. Université Paris Cité, 2019. Français. (NNT : 2019UNIP7162). (tel-03139970) <https://theses.hal.science/tel-03139970v1>
- 2019** - Gauthier Hulot, Jean-Michel Léger, Pierre Vigneron, Thomas Jager, Pierdavide Coïsson, et al.. The NanoMagSat (Swarm Delta) nanosatellite high-precision magnetic project. 21st EGU General Assembly, EGU2019, Apr 2019, Vienne, Austria. (cea-03141553) <https://cea.hal.science/cea-03141553v1>
- 2019** - Pierdavide Coïsson, Gauthier Hulot, Pierre Vigneron, Pierre Deram, Jean-Michel Léger, et al.. 0+ whistlers in the ELF band recorded by Swarm satellites used to reconstruct the ionosphere below the satellite height. 21st EGU General Assembly, EGU2019, Apr 2019, Vienne, Austria. (cea-03141549) <https://cea.hal.science/cea-03141549v1>
- 2016** - Erwan Thébault, Pierre Vigneron, Benoit Langlais, Gauthier Hulot. A Swarm lithospheric magnetic field model to SH degree 80. Earth Planets and Space, 2016, 68, pp.126. (10.1186/s40623-016-0510-5). (insu-01412242) <https://insu.hal.science/insu-01412242v1>
- 2016** - Isabelle Fratter, Jean-Michel Léger, François Bertrand, Thomas Jager, Gauthier Hulot, et al.. Swarm Absolute Scalar Magnetometers first in-orbit results. Acta Astronautica, 2016, 121, pp.76-87. (10.1016/j.actaastro.2015.12.025). (insu-03581663) <https://insu.hal.science/insu-03581663v1>
- 2015** - Gauthier Hulot, Pierre Vigneron, Jean-Michel Léger, Isabelle Fratter, Nils Olsen, et al.. Swarm's absolutemagnetometer experimental vectormode, an innovative capability for space magnetometry. Geophysical Research Letters, 2015, (10.1002/2014GL062700). (insu-01408629) <https://insu.hal.science/insu-01408629v1>
- 2015** - Jean-Michel Léger, Thomas Jager, François Bertrand, Gauthier Hulot, Laura Brocco, et al.. In-flight performance of the Absolute Scalar Magnetometer vector mode on board the Swarm satellites. Earth Planets and Space, 2015, 67, pp.57. (10.1186/s40623-015-0231-1). (insu-01409797) <https://insu.hal.science/insu-01409797v1>
- 2015** - Pierre Vigneron, Gauthier Hulot, Nils Olsen, Jean-Michel Léger, Thomas Jager, et al.. A 2015 International Geomagnetic Reference Field (IGRF) candidate model based on Swarm's experimental absolute magnetometer vector mode data. Earth Planets and Space, 2015, 67, pp.95. (10.1186/s40623-015-0265-4). (insu-01412648) <https://insu.hal.science/insu-01412648v1>
- 2015** - Erwan Thébault, Christopher C Finlay, Ciarán D Beggan, Patrick Alken, Julien J Aubert, et al..

International Geomagnetic Reference Field: the 12th generation. *Earth Planets and Space*, 2015, 67, pp.79. (10.1186/s40623-015-0228-9). (insu-01412375)  
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2014 - Pierdavide Coisson, Pierre Vigneron, Gauthier Hulot, R. Crespo Grau, Laura Brocco, et al.. Swarm's Absolute Scalar Magnetometers Burst Mode Results. AGU Fall Meeting, Dec 2014, San Francisco, France. 2014. (hal-04059782)  
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2013 - Nils N Olsen, Eigil D Friis-Christensen, Rune N Floberghagen, Patrick N Alken, H D Beggan, et al.. The Swarm Satellite Constellation Application and Research Facility (SCARF) and Swarm data products. *Earth Planets and Space*, 2013, 65 (1), pp.1319-1200. (10.5047/eps.2013.07.001). (insu-01404764)  
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2013 - Patrick Alken, Stefan Maus, Pierre Vigneron, Olivier Sirol, Gauthier Hulot. Swarm SCARF equatorial electric field inversion chain. *Earth Planets and Space*, 2013, 65 (11), pp.1309-1317. (10.5047/eps.2013.09.008). (insu-01403949)  
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<https://insu.hal.science/insu-01404028v1>

1986 - Louis Lefaucheur, C. Le Peuch, Bruno Barenton, Pierre Vigneron. Characterization of insulin binding to slices of slow and fast twitch skeletal muscles in the rabbit. *Hormone and Metabolic Research*, 1986, 18 (11), pp.725-729. (10.1055/s-2007-1012420). (hal-02727407)  
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