

Publications Rang A – période 2020-2024

Kieokaew, R., V. Haberle, **A. Marchaudon**, A. Chambodut, P.-L. Blelly, Neural network modeling of geomagnetic baseline for ground magnetic measurements at mid-latitude, soumis à *Space Weather*, 2024.

Belehaki A., I. Häggström et al., PITHIA-NRF, Integrating plasmasphere, ionosphere and thermosphere observations and models into a standardised open access research environment: The PITHIA-NRF international project, soumis à *Advances in Space Research*, 2024.

Geethakumari G. P., A. T. Aikio, L. Cai, H. Vanhamäki, I. I. Virtanen, A. Coster, **A. Marchaudon**, P.-L. Blelly, A. Maute, J. Norberg, S. Oyama, Y. Zhang, S. Chakraborty and B. Kunduri, Total electron content variations during an HSS/SIR-driven geomagnetic storm at high and mid-latitudes, soumis à *Journal of Geophysical Research: Space Physics*, 2024.

Haberle, V., **A. Marchaudon**, A. Chambodut, P.-L. Blelly, An Operational Geomagnetic Baseline Derivation Method for Magnetic Observatories located in Mid-Latitudes, en révision à *Space Weather*, 2024.

Wahlund, J.-E., Bergman J. E. S. et al., The Radio & Plasma Wave Investigation (RPWI) for the JUperiter ICy moons Explorer (JUICE), en révision à *Space Science Review*, 2024.

Ellahouny, N. M., A. Aikio, H. Vanhamäki, I. Virtanen, L. Cai, **A. Marchaudon**, P.-L. Blelly, A. Coster, J. Norberg, A. Maute, S.-I. Oyama (2024), EISCAT observations of depleted high-latitude F-region 2 during an HSS/SIR-driven magnetic storm, accepté *Journal of Geophysical Research: Space Physics*, e2024JA032910.

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Conférences invitées – période 2020-2024

Marchaudon A., How can the effects of the middle atmosphere be taken into account to model the ionosphere accurately?, *ISSI Workshop “Physical Links Between Weather and Climate in Space and the Lower Atmosphere”*, Berne, Suisse, Janvier 2024.

Marchaudon, A., Ground-based efforts toward a better description of the ionosphere-thermosphere system and a better assimilation of data in first-principle models, *Royal Astronomical Society’s Specialist Discussion Meeting Global Monitoring of Geospace*, Meeting en ligne, Janvier 2022.

Marchaudon, A., Overview of the equatorial electrodynamics at Earth, *Royal Astronomical Society Meeting: Comparative Equatorial Thermosphere-Ionosphere-Magnetosphere*, Meeting en ligne, Février 2021.

Publications sans comité de lecture – 2020-2024

Sarris, T., et al. (2023), Plasma-Neutral Interactions in the Lower Thermosphere-Ionosphere: The need for in situ measurements to address focused questions, *Whitepaper #351 in the Decadal Survey for Solar and Space Physics (Heliophysics) 2024-2033*. Main topics: basic research. Additional topics: planetary ionospheres/upper atmospheres; space-based missions/projects, <https://doi.org/10.3847/25c2cfcb.ad2e5fe9>.

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Communications nationales et internationales (1^{ère} autrice) – 2020-2024

Marchaudon, A., Comprendre l'environnement spatial proche de la Terre : enjeu aussi bien pour les relations Soleil-Terre que pour les couplages avec la basse atmosphère, *Session plénière du Colloque de la SF2A*, Marseille, France, Juin 2024.

Marchaudon, A., P.-L. Blelly, F. Pitout, J. Eisenbeis, S. Thomas, Importance de la composante thermosphérique dans la dynamique du couplage ionosphère-magnétosphère : impact pour la Météorologie de l'Espace, *Colloque du PNST*, Marseille, France, Mai 2022.

Marchaudon, A., P.-L. Blelly, F. Pitout, L. Noguès, H.C. Séran, L. Bautista, A. Resseguier, Installations ionosphériques HF françaises : état du radar SuperDARN de Kerguelen et installation d'une ionosonde au Centre de Recherche Atmosphérique de Lannemezan, *Colloque de prospective du PNST*, Marseille, France, Janvier 2024. (poster)

Marchaudon A., P.-L. Blelly, A. Aikio, A. Maute, S. Thomas, J. Eisenbeis, Applications du modèle IPIM aux événements intenses : éjections de masse coronale (CME) et régions d'interaction en corotation (CIR), *Colloque de prospective du PNST*, Marseille, France, Janvier 2024. (poster)

Marchaudon, A., P.-L. Blelly, F. Pitout, L. Noguès, H.C. Séran, L. Bautista, A. Resseguier, French HF ionospheric facilities: SuperDARN radar and Ionosonde, *European Space Weather Week 2023*, Toulouse, Novembre, 2023. (poster)

Communications internationales (jeunes chercheurs encadrés) – 2020-2024

Haberle, V., **Marchaudon, A.**, Chambodut, A., and Blelly, P.-L.: An operational geomagnetic baseline derivation for ground magnetometer data located in mid-latitudinal regions, *EGU General Assembly 2024*, Vienne, Autriche, Avril 2024. (poster)

Kieokaew, R., V. Haberle, **A. Marchaudon**, A. Chambodut, P.-L. Blelly, Neural network modeling of the ground magnetic perturbation at mid-latitude: towards future application of geomagnetic storm prediction, *European Space Weather Week 2023*, Toulouse, Novembre, 2023.

Haberle, V., **Marchaudon, A.**, Chambodut, A., and Blelly, P.-L.: Extraction of solar forcing signatures in ground magnetometer data from sub-auroral regions, *EGU General Assembly 2023*, Vienne, Autriche, Avril 2023. (poster)

Haberle, V., **A. Marchaudon**, A. Chambodut, P.-L. Blelly, Extraction of ground magnetic signatures from solar quiet current systems in sub-auroral regions, *EGU General Assembly*, Avril 2022.

Eisenbeis, J., P.-L. Blelly, S. R. Thomas, **A. Marchaudon**, Modeling horizontal currents and magnetic ground perturbations with the IPIM model, *EGU General Assembly*, Avril 2022.

Thomas, S. R., S. Bird, P.-L. Blelly, **A. Marchaudon**, J. Eisenbeis, Using IPIM to Simulate the Ionosphere's Response to Extreme Space Weather, *EGU General Assembly*, Avril 2022.

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