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Software (Refereed)

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Scientific Publications (Non-Refereed)

- J. A. Carter, **M.-T. Walach**, M. Mooney, *RAS Specialist Discussion Meeting report*, Astronomy & Geophysics, Volume 63, Issue 4, August 2022, Pages 4.38–4.42, https://doi.org/10.1093/astrogeo/atac054.
- J. Wiggs, R. Hodnett, **M.-T. Walach** and S. Walton (**2022**), *Meandering through the virtual MIST*, **Astronomy and Geophysics**, *63*(3), 3.40-3.42 editor: S. Bowler, publisher: Oxford University Press on behalf of the Royal Astronomical Society, doi:10.1093/astrogeo/atac041.
- **M.-T.** Walach, G. Hunt, A. R. Fogg, A. Bader (2020), *Autumn MIST* 2019, **Astronomy & Geophysics**, 61 (4), 4.26–4.28, editor: S. Bowler, publisher: Oxford University Press on behalf of the Royal Astronomical Society, doi: 10.1093/astrogeo/ataa056.
- J. K. Sandhu, M.-T. Walach, H. Allison, C. Watt (2019), A global view of storms and substorms, Astronomy & Geophysics, Vol. 60 (3), 3.13–3.19, editor: S. Bowler,

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- **M.-T. Walach** (2018), Changing the Perspective: Looking at the Aurora from Space, AuroraWatch UK Blog post,
- http://wp.lancs.ac.uk/aurorawatchuk/2018/02/09/changing-the-perspective-looking-at-the-aurora-from-space/.
- **M.-T. Walach**, S. E. Milan (**2016**), *The Irregular Pulse of the Magnetosphere*, **Astronomy & Geophysics**, vol. 57 (1): 1.34-1.36, editor: S. Bowler, publisher: Oxford University Press on behalf of the Royal Astronomical Society, doi: 10.1093/astrogeo/atw041.

Invited Talks

Conference Talk: *Ionosphere and Thermosphere Observations in the Context of Whole Atmosphere Modelling*, 15/07/2022, **National Astronomy Meeting**, University of Warwick, UK.

Virtual Seminar: Ionospheric Convection Map Parameters Measured by the Super Dual Auroral Radar Network: A Journey Through Space And Time, 28/06/2022, **University of Saskatchewan**, Canada.

Virtual Seminar: *Ionospheric Electrodynamics at Earth: The Eye of the Geomagnetic Storm*, 07/06/2022, **MIST Online Seminar Series**, UK.

Virtual Seminar: *Ionospheric Convection and Auroral Responses to Solar Wind Driving*, 21/03/2022, **Magnetospheres Online Seminar Series**, US.

Virtual Talk: How the Aurora Lights up Space, 16/03/2022, **Mars Week**, UK Space Education Office.

Virtual Seminar: Super Dual Auroral Radar Network Expansion and Its Influence on the Derived Ionospheric Convection Pattern, 24/02/2022, Canadian Division of Atmospheric and Space Physics, Canada.

Virtual Seminar: High-latitude ionospheric convection during geomagnetic storms, 02/03/2021, **Dartmouth College**, US.

Virtual Seminar: Average Ionospheric Electric Field Morphologies during Geomagnetic Storm Phases, 05/05/2020, Modelling GICs in the US project group, **Fairbanks**, Alaska, US.

Conference Talk: Large scale analysis of sawtooth events, and isolated substorms, 03/10/2019, **14th International Conference on Substorms**, Tromsø, Norway.

Seminar: *Time variability in high-latitude ionospheric convection at Earth*, 30/04/2019, **University of Southampton**, Southampton, UK.

Seminar: Time variability in high-latitude ionospheric convection at Earth, Mullard 19/03/2019, Space Science Laboratory (UCL), Surrey, UK.

Seminar: *Ionospheric Convection and Auroral Responses to Solar Wind Driving*, 16/01/2019, **University of Leicester**, Leicester, UK.

Seminar: Tracking Irregular Pulses of Earth's Magnetosphere: Auroral Dynamics, Convection and Magnetospheric Modes, 18/03/2017, **Lancaster University**, Lancaster, UK.

Seminar: Magnetic Flux Transport and Plasma Flow in the Earth's Magnetosphere, 03/02/2016, **IRF Uppsala**, Uppsala, Sweden.

Oral Conference Presentations

- **M.-T. Walach**, A. Grocott, E.G. Thomas, F. Staples, *Dusk-Dawn Asymmetries in SuperDARN Convection Maps*, **Virtual SuperDARN Workshop**, 30/05-03/06/2022, Virtual.
- M.-T. Walach, A. Grocott, L. Orr, W. Feng, D. Marsh, A. Aruhliah, *Ionosphere and Thermosphere Observations in the Context of Whole Atmosphere Modelling*, European Geophysical Union, 27/05/2022, Vienna, Austria.
- M.-T. Walach, A. Grocott, W. Feng, D. Marsh, A. Aruliah, *Ionosphere and Thermosphere Observations in the Context of Whole Atmosphere Modelling*, National Astronomy Meeting, 19/07/2021, Virtual.
- M.-T. Walach, A. Grocott, SuperDARN observations of the September 2017 storm, Royal Astronomical Society Discussion Meeting on Space Weather Energy Pathways and Implications for Impacts, 08/01/2021, Virtual.
- **M.-T. Walach**, A. Grocott, *Modelling the Time-Variability of the Ionospheric Electric Field: Introducing the TiVIE model*, **European Space Weather Symposium**, 5/11/2020, Virtual.
- M.-T. Walach, A. Grocott, S. E. Milan, *Average Ionospheric Electric Field Morphologies during Geomagnetic Storm Phases*, Virtual SuperDARN Workshop **2020**, 01/06/2020 -05/06/2020, Virtual.
- M.-T. Walach, A. Grocott, S. E. Milan, *Average lonospheric Electric Field Morphologies during Geomagnetic Storms*, **AGU Fall Meeting**, 12/12/2019, San Francisco, USA.
- M.-T. Walach, A. Grocott, S. E. Milan, Average Ionospheric Electric Field Morphologies during Geomagnetic Storms, European Space Weather Week, 22/11/2019, Liège, Belgium.
- M.-T. Walach, Outreach via existing platforms: "I'm a Scientist, Get me out of here", National Astronomy Meeting, 02/07/2019, Lancaster, UK.
- **M.-T. Walach**, A. Grocott, *SuperDARN observations during geomagnetic storms, geomagnetically active times and enhanced solar wind driving,* **National Astronomy Meeting**, 01/07/2019, Lancaster, UK.

- **M.-T. Walach**, A. Grocott, *High latitude ionospheric convection during storm times: TiVIE & SuperDARN*, **Extended Unified Model Workshop**, 27/06/2019, MetOffice, Exeter, UK.
- **M.-T. Walach**, A. Grocott, F. Staples, E. G. Thomas, *Influences of the equatorial expansion on data coverage and measured parameters*, **SuperDARN Workshop**, 07/06/2019, Fujiyoshida, Japan.
- **M.-T. Walach**, A. Grocott, SuperDARN observations during geomagnetic storms, geomagnetically active times and enhanced solar wind driving, **SuperDARN Workshop**, 06/06/2019, Fujiyoshida, Japan.
- **M.-T. Walach**, A. Grocott, and D. D. Billett, *Improving Joule Heating and Electric Field Models of the High-latitude Ionosphere*, **Extended Unified Model Workshop**, 02/07/2018, University College London, UK.
- M.-T. Walach, A. Grocott, Characterising and understanding temporal variability in ionospheric flows using SuperDARN data, Whole Atmospheric Modelling Workshop, 14/06/2018, Deimos Space, Tres-Cantos, Spain.
- **M.-T. Walach**, A. Grocott, S. E. Milan and D. D. Billett, *Characterising and understanding temporal variability in ionospheric flows using SuperDARN data,* **SuperDARN Workshop**, 07/06/2018, Banyuls-sur-Mer, France.
- **M.-T. Walach**, A. Grocott, S. E. Milan and D. D. Billett, *Comparison of ionospheric convection signatures of sawtooth events and substorms,* **SuperDARN Workshop**, 04/06/2018, Banyuls-sur-Mer, France.
- M.-T. Walach, A. Grocott, and D. D. Billett, *Characterising temporal variability in ionospheric flows using SuperDARN data*, **RAS Specialist Discussion Meeting on Joule Heating**, 07/06/2018, British Antarctic Survey, Cambridge, UK.
- **M.-T. Walach**, A. Grocott, *Characterising temporal variability in ionospheric flows using SuperDARN data*, **MIST Meeting**, 26/03/2018, Southampton, UK.
- **M.-T. Walach**, D. D. Billett, A. Grocott, A. Aruliah, A. Ronksley, *Time Variability in the Ionospheric Electric Field*, **Extended Unified Model Workshop**, 24/07/2017, Bath, UK.
- A. Grocott, **M.-T. Walach**, *Timescales of convection pattern reconfiguration following IMF transitions*, **SuperDARN Workshop**, 08/06/2017, San Quirico D'Orcia, Italy.
- **M.-T. Walach**, S. E. Milan, K. R. Murphy, J. A. Carter, B. A. Hubert, Large-Scale Auroral Responses During Magnetospheric Modes, **RAS Specialist Discussion Meeting on Multi-Scale Auroral Dynamics**, 13/01/2017, London, UK.
- **M.-T. Walach**, S. E. Milan, T. K. Yeoman, B. A. Hubert, M. R. Hairston, *Testing Predictions of the Ionospheric Convection from the Expanding/Contracting Polar Cap Paradigm*, **AGU Fall Meeting**, 13-18/12/2015, San Francisco, USA.

- M.-T. Walach, S. E. Milan, T. K. Yeoman, *Testing Predictions of the Ionospheric Convection from the Expanding/Contracting Polar Cap Paradigm*, National Astronomy Meeting, 05-09/07/2015, Llandudno, Wales. Rishbeth Prize Winner
- **M.-T. Walach**, S. E. Milan, T. K. Yeoman, *Testing Predictions of the Ionospheric Convection from the Expanding/Contracting Polar Cap Paradigm*, **SuperDARN Meeting**, 31/05 05/06/2015, Leicester, UK.
- **M.-T. Walach**, S. E. Milan, *Are Steady Magnetospheric Convection Events Prolonged Substorms?*, **MIST Meeting**, 28/11/2015, London, UK.
- **M.-T.** Walach, S. E. Milan, *Are Steady Magnetospheric Convection Events Prolonged Substorms?*, International Conference on Substorms (ICS-12), 09-14/11/2015, Ise-Shima, Japan.
- **M.-T. Walach**, S. E. Milan, *Are Steady Magnetospheric Convection Events just Prolonged Substorms?*, **MIST Meeting**, 23-25/04/2014, Bath, UK.

Poster Presentations

- **M.-T. Walach**, A. Grocott, F. Staples, and E. Thomas, *SuperDARN map comparability: Statistical comparisons of radar network expansions*, **Autumn MIST Meeting**, 25-26/11/2021, Virtual.
- **M.-T. Walach**, A. Grocott, F. Staples, E. G. Thomas, *Two decades of SuperDARN convection mapping: effects of an ever evolving network,* **AGU Fall Meeting 2020**, 01/12/2020-17/12/2020, Virtual.
- **M.-T. Walach**, A. Grocott, S. E. Milan, *Average Ionospheric Electric Field Morphologies during Geomagnetic Storms*, **MIST Meeting**, 24/01/2020, Royal Astronomical Society, London, UK.
- **M.-T. Walach**, A. Grocott, F. Staples, E. Thomas, *Influences of the equatorward SuperDARN expansion on data coverage and measured parameters*, **National Astronomy Meeting**, 03/07/2019, Lancaster, UK.
- M.-T. Walach, A. Grocott, SuperDARN scatter during geomagnetic storms and geomagnetically active times, RAS Specialist Discussion Meeting: Global Response of the Terrestrial Magnetosphere during Storms and Substorms, 08/02/2019, London, UK.
- **M.-T. Walach**, A. Grocott, *Characterising temporal variability in ionospheric flows using SuperDARN data: How well do IMF conditions constrain the SuperDARN data?*, **MIST Meeting**, 24/11/2017, London, UK.
- **M.-T. Walach**, S. E. Milan, T. K. Yeoman, B. A. Hubert, M. R. Hairston, *Testing Predictions of the Ionospheric Convection from the Expanding/Contracting Polar Cap Paradigm*, **MIST Meeting**, 27/11/2015, London, UK.
- **M.-T. Walach**, S. E. Milan, *Are Steady Magnetospheric Convection Events Prolonged Substorms?*, **SuperDARN Meeting**, 31/05 05/06/2015, Leicester, UK.

I.C. Whittaker, S. Sembay, J. A. Carter, A. M. Read, **M.-T. Walach**, *Magnetospheric Solar Wind Charge Exchange – A Comparison Between the GUMICS-4 MHD Model and XMM-Newton*, **AGU Fall Meeting**, 13-18/12/2015, San Francisco, US.