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Submitted

Kiszler, T., K. Ebell, and V. Schemann: A performance baseline for the representation of clouds and humidity in cloud-resolving ICON-LEM simulations in the Arctic, *Journal of Advances in Modeling Earth Systems*, submitted on 12 July 2022

Rückert, J.E., P. Rostosky, M. Huntemann, D. Clemens-Sewall, K. Ebell, L. Kaleschke, J. Lemmetyinen, A. Macfarlane, R. Naderpour, J. Stroeve, A. Walbröl, and G. Spreen: Effect of warm air intrusions on satellite-based sea ice concentration retrievals: A case study of the April 2020 events during the MOSAiC expedition, *Elementa: Science of the Anthropocene*, submitted on 15 March 2022

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Peer-reviewed

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Bresson, H., A. Rinke, M. Mech, D. Reinert, V. Schemann, K. Ebell, M. Maturilli, C. Viceto, I. Gorodetskaya, and S. Crewell, 2022: Case study of a moisture intrusion over the Arctic with the ICON model: resolution dependence of its representation, *Atmospheric Chemistry and Physics*, 22, 173–196, <https://doi.org/10.5194/acp-22-173-2022>

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King, F., G. Duffy, L. Milani, C. G. Fletcher, C. Pettersen and K. Ebell, 2022: DeepPrecip: A deep neural network for precipitation retrievals, *Atmospheric Measurement Techniques, Atmospheric Measurement Techniques*, 15, 6035–6050, <https://doi.org/10.5194/amt-15-6035-2022>

Pasquier et al. (incl. K. Ebell): The Ny-Ålesund AeroSol Cloud Experiment (NASCENT): Overview and first results, *Bulletin of the American Meteorological Society*, <https://doi.org/10.1175/BAMS-D-21-0034.1>, Early Online Release

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Walbröl, A., S. Crewell, R. Engelmann, E. Orlandi, H. Griesche, M. Radenz, J. Hofer, D. Althausen, M. Maturilli, and K. Ebell: Atmospheric temperature, water vapour and liquid water path from two microwave radiometers during MOSAiC, *Scientific Data*, 9, 534, <https://doi.org/10.1038/s41597-022-01504-1>

Wendisch, M., et al. (incl. K. Ebell): Atmospheric and Surface Processes, and Feedback Mechanisms Determining Arctic Amplification: A Review of First Results and Prospects of the (AC)³ Project, *Bulletin of the American Meteorological Society*, <https://doi.org/10.1175/BAMS-D-21-0218.1>, Early Online Release

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