

Publications and communications of Xavier Fettweis [u204898]

Legend

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1. Published books, as author, co-author or editor

2. Books chapters, as author or co-author

- 1)  **Fettweis, X**, Belleflamme, A, Erpicum, M, Franco, B, & Nicolay, S. (2011). Estimation of the Sea Level Rise by 2100 Resulting from Changes in the Surface Mass Balance of the Greenland Ice Sheet. In J., Blanco & H., Kheradmand (Eds.), *Climate Change - Geophysical Foundations and Ecological Effects* (pp. 503-520). Croatia: Intech.
<http://hdl.handle.net/2268/98831>
ORBi viewed: **206** (19 ULg) ; downloaded: **159** (7 ULg)
- 2)  van den Broeke, M, **Fettweis, X**, & Molg, T. (2011). Surface Energy Balance. *Encyclopedia of Snow, Ice and Glaciers* (1st edition, pp. 1112-1122). The Netherlands: Springer.
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- 3)  Nicolay, S, Mabille, G, **Fettweis, X**, & Erpicum, M. (2010). Multi-Months Cycles Observed in Climatic Data. In S., Simard (Ed.), *Climate Change and Variability* (pp. 27-44). Sciyo.
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3. Articles accepted in journals with committee (peer reviewed)





- 1)  Shannon, S, Payne, A, Bartholomew, I, van den Broeke, M, Edwards, T, **Fettweis, X**, Gagliardini, O, Gillet-Chaulet, F, Goelzer, H, Hoffman, M, Huybrechts, P, Mair, D, Nienow, P, Perego, M, Price, S, Smeets, P, Sole, A, van de Wa, R, & Zwinger, T. (2013, August 12). Enhanced basal lubrication and the contribution of the Greenland ice sheet to future sea-level rise. *Proceedings of the National Academy of Sciences of the United States of America*.
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IF 2013: ?; last: **9.737**; IF5: **10.583** — EigenF 2013: ?; last: **1.6016** — Article Infl. 2013: ?; last: **4.8961**
- 2)  Goelzer, H, Huybrechts, P, Furst, J, Nick, F, Andersen, M, Eswards, T, **Fettweis, X**, Payne, A, & Shannon, S. (2013). Sensitivity of Greenland ice sheet projections to model formulations. *Journal of Glaciology*, 59(216), 733-749.
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IF 2013: ?; last: **2.882**; IF5: **3.135** — EigenF 2013: ?; last: **0.0075** — Article Infl. 2013: ?; last: **0.9851**

- 3) Hanna, E, **Fettweis, X**, Mernild, S, Cappelen, J, Ribergaard, M, Shuman, C, Steffen, K, Wood, L, & Mote, T. (2013). Atmospheric and oceanic climate forcing of the exceptional Greenland ice sheet surface melt in summer 2012. *International Journal of Climatology, online*.
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- 4) Hanna, E, Navarro, F, Pattyn, F, Domingues, C, **Fettweis, X**, Ivins, E, Nicholls, R, Ritz, C, Smith, B, Tulaczyk, S, Whitehouse, P, & Zwally, H. (2013). Ice-sheet mass balance and climate change. *Nature*, 498, 51-59.
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- 5) van Angelen, J, Lenaerts, J, van den Broeke, M, **Fettweis, X**, & van Meijgaard, E. (2013). Rapid loss of firn pore space accelerates 21st century Greenland mass loss. *Geophysical Research Letters*, 40, 1-5.
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- 6) Machguth, H, Rastner, P, Bolch, T, Mölg, N, Sandberg Sørensen, L, Aðalgeirsdóttir, G, van Angelen, J, van den Broeke, M, & **Fettweis, X**. (2013). The future sea-level rise contribution of Greenland's glaciers and ice caps. *Environmental Research Letters*, 8(025005), 14.
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- 7) Tedesco, M, **Fettweis, X**, Mote, T, Wahr, J, Alexander, P, Box, J, & Wouters, B. (2013). Evidence and analysis of 2012 Greenland records from spaceborne observations, a regional climate model and reanalysis data. *Cryosphere (The)*, 7, 615-630.
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- 8) Vernon, C. L, Bamber, J. L, Box, J. E, van den Broeke, M. R, **Fettweis, X**, Hanna, E, & Huybrechts, P. (2013). Surface mass balance model intercomparison for the Greenland ice sheet. *Cryosphere (The)*, 7, 599-614.
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- 9) **Fettweis, X**, Franco, B, Tedesco, M, van Angelen, J, Lenaerts, J, van den Broeke, M, & Gallée, H. (2013). Estimating the Greenland ice sheet surface mass balance contribution to future sea level rise using the regional atmospheric climate model MAR. *Cryosphere (The)*, 7, 469-489.
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- 10) Edwards, T, **Fettweis, X**, Gagliardini, O, Gillet-Chaulet, F, Goelzer, H, Gregory, J, Hoffman, M, Huybrechts, P, Payne, A, Perego, M, Price, S, Quiquet, A, & Ritz, C. (2013). Effect of uncertainty in surface mass balance elevation feedback on projections of the future sea level contribution of the Greenland ice sheet - Part 2: Projections. *Cryosphere Discussions (The)*, 7, 675-708.
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- 11) Edwards, T, **Fettweis, X**, Gagliardini, O, Gillet-Chaulet, F, Goelzer, H, Gregory, J, Hoffman, M, Huybrechts, P, Payne, A, Perego, M, Price, S, Quiquet, A, & Ritz, C. (2013). Effect of uncertainty in surface mass balance-elevation feedback on projections of the future sea level contribution of the Greenland ice sheet - Part 1: Parameterisation. *Cryosphere Discussions (The)*, 7, 635-674.
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- 12) **Fettweis, X**, Hanna, E, Lang, C, Belleflamme, A, Ericum, M, & Gallée, H. (2013). Important role of the mid-tropospheric atmospheric circulation in the recent surface melt increase over the Greenland ice sheet. *Cryosphere (The)*, 7, 241-248.
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- 13) Franco, B, **Fettweis, X**, & Ericum, M. (2013). Future projections of the Greenland ice sheet energy balance driving the surface melt. *Cryosphere (The)*, 7, 1-18.
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- 14) Rae, J, Aðalgeirsdóttir, G, Edwards, T, **Fettweis, X**, Gregory, G, Hewitt, H, Lowe, J, Lucas-Picher, P, Mottram, R, Payne, A, Ridley, J, Shannon, S, van de Berg, W. J, van de Wal, R, & van den Broeke, M. (2012). Greenland ice sheet surface mass balance: evaluating simulations and making projections with regional climate models. *Cryosphere (The)*, 6, 1275-1294.
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- 15) Harper, J, Humphrey, N, Pfeffer, W, Brown, J, & **Fettweis, X**. (2012). Greenland ice-sheet contribution to sea-level rise buffered by meltwater storage in firn. *Nature*, 491, 240-243.
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- 16) Tedesco, M, & **Fettweis, X**. (2012). 21st century projections of surface mass balance changes for major drainage systems of the Greenland ice sheet. *Environmental Research Letters*, 7, 045405.
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- 17) van Angelen, J, Lenaerts, J, Lhermitte, S, **Fettweis, X**, Kuipers Munneke, P, van den Broeke, M, & van Meijgaard, E. (2012). Sensitivity of Greenland Ice Sheet surface mass balance to surface albedo parameterization: a study with a regional climate model. *Cryosphere*, 6, 1175-1186.
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- 18) Leeson, A, Shepherd, A, Palmer, S, Sundal, A, & **Fettweis, X**. (2012). Simulating the growth of supra-glacial lakes at the western margin of the Greenland ice sheet. *Cryosphere*, 6, 1077-1086.
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- 19) Quiquet, A, Punge, H, Ritz, C, **Fettweis, X**, Kageyama, M, Krinner, G, Salas y Mélia, D, & Sjolte, J. (2012). Sensitivity of a Greenland ice sheet model to atmospheric forcing fields. *Cryosphere (The)*, 6, 999-1018.
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- 20) Masson-Delmotte, V, Swingedouw, D, Landais, A, Seidenkrantz, M, Gauthier, E, Bichet, V, Massa, C, Perren, B, Jomelli, V, Adalgeirsdottir, G, Christensen, J. H, Arneborg, J, Bhatt, U, Walker, D. A, Elberling, B, Gillet-Chaulet, F, Ritz, C, Gallée, H, van den Broeke, M, **Fettweis, X**, de Vernal, A, & Vinther, B. (2012). Greenland climate change: from the past to the future. *Wiley Interdisciplinary Reviews. RNA*, 3(5), 427-449.
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 IF 2012: **4.186**; last: **4.186**; IF5: **4.186** — EigenF: — Article Infl.:
- 21) Box, J, **Fettweis, X**, Stroeve, J, Tedesco, M, Hal, D, & Steffen, K. (2012). Greenland ice sheet albedo feedback: thermodynamics and atmospheric drivers. *Cryosphere (The)*, 6, 785-805.
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 IF 2012: **3.770**; last: **3.770**; IF5: **4.535** — EigenF 2012: ?; last: **0.0027** — Article Infl. 2012: ?; last: **1.6616**
- 22) Reijmer, C, van den Broeke, M, **Fettweis, X**, Ettema, J, & Stap, L. (2012). Refreezing on the Greenland ice sheet: a comparison of parameterizations. *Cryosphere (The)*, 6, 743-762.
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- 23) Franco, B, **Fettweis, X**, Lang, C, & Ericum, M. (2012). Impact of spatial resolution on the modelling of the Greenland ice sheet surface mass balance between 1990–2010, using the regional climate model MAR. *Cryosphere (The)*, 6, 695-711.
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- 24) Tedesco, M, Luthje, M, Steffen, K, Steiner, N, **Fettweis, X**, Willis, I, Bayou, N, & Banwell, A. (2012). Measurement and modeling of ablation of the bottom of supraglacial lakes in western Greenland. *Geophysical Research Letters*, 39(L02502), 5.
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- 25) Belleflamme, A, **Fettweis, X**, Lang, C, & Erpicum, M. (2012). Current and future atmospheric circulation at 500 hPa over Greenland simulated by the CMIP3 and CMIP5 global models. *Climate Dynamics*.
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- 26) Mabille, G, **Fettweis, X**, Erpicum, M, & Nicolay, S. (2012). Étude fréquentielle de données via la transformée en ondelette : application aux cycles climatiques. *Bulletin de la Société Géographique de Liège*, 58, 5-15.
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- 27) Box, J. E, Ahlstrøm, A, Cappelen, J, **Fettweis, X**, Decker, D, Mote, T, van As, D, van de Wal, R. S. W, Vinther, B, & Wahr, J. (2011). Greenland [in "State of the Climate in 2010"]. *Bulletin of the American Meteorological Society [= BAMS]*, 92(6), 161-171.
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 ORBi viewed: **14** ; downloaded: **9**
 IF 2011: **6.026**; last: **6.591**; IF5: **7.704** — EigenF 2011: ?; last: **0.0279** — Article Infl. 2011: ?; last: **3.6353**
- 28) **Fettweis, X**, Tedesco, M, van den Broeke, M, & Ettema, J. (2011). Melting trends over the Greenland ice sheet (1958-2009) from spaceborne microwave data and regional climate models. *The Cryosphere [=TC]*, 5, 359-375.
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- 29) Tedesco, M, **Fettweis, X**, van den Broeke, M, van de Wal, R, Smeets, P, van de Berg, W. J, Serreze, M, & Box, J. (2011). Record Summer Melt in Greenland in 2010. *EOS : Transactions, American Geophysical Union*, 92(15), 126.
 <http://hdl.handle.net/2268/98964>
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- 30) Steen-Larsen, Masson-Delmotte, Sjolte, Johnsen, Vinther, Bréon, Clausen, Dahl-Jensen, Falourd, **Fettweis, X**, Gallée, Jouzel, Kageyama, Lerche, Minster, Picard, Punge, Risi, Salas, Schwander, Steffen, Sveinbjörnsdóttir, Svensson, & White. (2011). Understanding the climatic signal in the water stable isotope records from the NEEM shallow firn/ice cores in northwest Greenland. *Journal of Geophysical Research. Atmospheres*, 116, 20.
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- 31) Tedesco, M, **Fettweis, X**, van den Broeke, M, van de Wal, R, Smeets, P, van de Berg, W. J, Serreze, M, & Box, J. (2011). The role of albedo and accumulation in the 2010 melting record in Greenland. *Environmental Research Letters*, 6(1).
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- 32) **Fettweis, X**, Mabille, G, Erpicum, M, Nicolay, S, & Van den Broeke, M. (2011). The 1958-2009 Greenland ice sheet surface melt and the mid-tropospheric atmospheric circulation. *Climate Dynamics*, 36(1 (2011)), 139-159.
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- 33) Franco, B, **Fettweis, X**, Erpicum, M, & Nicolay, S. (2011). Present and future climates of the Greenland ice sheet according to the IPCC AR4 models. *Climate Dynamics*, 36.
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- 34) Box, J, Bhattacharya, I, Cappelen, J, Decker, D, **Fettweis, X**, Kezek, K, Mote, T, & Tedesco, M. (2010). Greenland [in "State of the Climate in 2009"]. *Bulletin of the American Meteorological Society [= BAMS]*, 91(6), 121-124.
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- 35) Nicolay, S, Mabilie, G, **Fettweis, X**, & Erpicum, M. (2010). A statistical validation for the cycles found in air temperature data using a Morlet wavelet-based method. *Nonlinear Processes in Geophysics*, 17, 269-272.
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- 36) Philipp, A, Bartholy, J, Beck, C, Erpicum, M, Esteban, P, **Fettweis, X**, Huth, R, James, P, Jourdain, S, Kreienkamp, F, Krennert, T, Lykoudis, S, Michalides, S. C, Pianko-Kluczynska, K, Post, P, Álvarez, D. R, Schiemann, R, Spekat, A, & Tymvios, F. S. (2010). COST733CAT - a database of weather and circulation. *Physics & Chemistry of the Earth - Parts A/B/C*, 35(9-12), 360-373.
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 IF 2010: **0.917**; last: **1.037**; IF5: **1.330** — EigenF 2010: **0.0058**; last: **0.0058** — Article Infl. 2010: **0.4233**; last: **0.4233**
- 37) Box, J, Bai, L, Benson, R, Bhattacharya, I, Bromwich, D, Cappelen, J, Decker, D, DiGirolamo, N, **Fettweis, X**, Hall, D, Hanna, E, Mote, T, Tedesco, M, van de Wal, R, & van den Broeke, M. (2009). Greenland [in "State of the Climate in 2008"]. *Bulletin of the American Meteorological Society (BAMS)*, 90, 108-112.
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- 38) Hanna, E, Cappelen, J, **Fettweis, X**, Huybrechts, P, Luckman, A, & Ribergaard, M. H. (2009). Hydrologic response of the Greenland ice sheet: the role of oceanographic warming. *Hydrological Processes*, 23(1), 7-30.
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- 39) Nicolay, S, Mabilie, G, **Fettweis, X**, & Erpicum, M. (2009). 30 and 43 months period cycles found in air temperature time series using the Morlet wavelet. *Climate Dynamics*, 33, 1117-1129.
 <http://hdl.handle.net/2268/9081>
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 IF 2009: **3.917**; last: **4.231**; IF5: **4.869** — EigenF 2009: **0.0285**; last: **0.0272** — Article Infl. 2009: **2.6036**; last: **2.4855**
- 40) Tedesco, M, **Fettweis, X**, van den Broeke, M, van de Wal, R, & Smeets, P. (2008). Extreme snowmelt in Northern Greenland during summer 2008. *EOS : Transactions, American Geophysical Union*, 89(41), 391.
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- 41) Gallée, H, & **Fettweis, X**. (2008). Is the Greenland ice sheet beginning to melt? *La Lettre « Changement Global » PIGB - PMRC France*, 21, 67-71.
 <http://hdl.handle.net/2268/36744>
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- 42) **Fettweis, X**, Hanna, E, Gallée, H, Huybrechts, P, & Erpicum, M. (2008). Estimation of the Greenland ice sheet surface mass balance for the 20th and 21st centuries. *The Cryosphere [=TC]*, 2, 117-129.
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 IF 2008: -; last: **3.770**; IF5: **4.535** — EigenF 2008: -; last: **0.0013** — Article Infl. 2008: -; last: **1.5867**
- 43) **Fettweis, X**, Mabilie, G, & Erpicum, M. (2008). Circulations atmosphériques et anomalies de fonte à la surface de la calotte glaciaire du Groenland. *Bulletin de la Société Géographique de Liège*, 51, 91-104.
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- 44) Tedesco, M, Serreze, M, & **Fettweis, X**. (2008). Diagnosing the extreme surface melt event over southwestern Greenland in 2007. *The Cryosphere [=TC]*, 2, 159-166.
 <http://hdl.handle.net/2268/36748>
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 IF 2008: -; last: **3.770**; IF5: **4.535** — EigenF 2008: -; last: **0.0013** — Article Infl. 2008: -; last: **1.5867**
- 45) **Fettweis, X**, van Ypersele, J.-P, Gallée, H, Lefebvre, F, & Lefebvre, W. (2007, March 14). The 1979-2005 Greenland ice sheet melt extent from passive microwave data using an improved version of the melt retrieval XPGR algorithm. *Geophysical Research Letters*.
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 IF 2007: **2.744**; last: **3.982**; IF5: **4.070** — EigenF 2007: **0.2735**; last: **0.2545** — Article Infl. 2007: **1.6348**; last: **1.782**












- 46) **Fettweis, X.** (2007). Reconstruction of the 1979–2006 Greenland ice sheet surface mass balance using the regional climate model MAR. *The Cryosphere* [=TC], 1, 21-40.
 <http://hdl.handle.net/2268/16466>
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 IF 2007: -; last: **3.770**; IF5: **4.535** — EigenF 2007: -; last: **0.0013** — Article Infl. 2007: -; last: **1.5867**
- 47) **Fettweis, X.**, Gallée, H, Lefebre, F, & van Ypersele, J.-P. (2006). The 1988-2003 Greenland ice sheet melt extent by passive microwave satellite data and a regional climate model. *Climate Dynamics*, 27(5), 531-541.
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 IF 2006: **3.344**; last: **4.231**; IF5: **4.869** — EigenF 2006: **0.0297**; last: **0.0272** — Article Infl. 2006: **2.539**; last: **2.4855**
- 48) Lefebre, F, **Fettweis, X.**, Gallée, H, van Ypersele, J.-P, Marbaix, P, Greuell, W, & Calanca, P. (2005). Evaluation of a high-resolution regional climate simulation over Greenland. *Climate Dynamics*, 25(1), 99-116.
 <http://hdl.handle.net/2268/36736>
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 IF 2005: **3.468**; last: **4.231**; IF5: **4.869** — EigenF 2005: **0.0358**; last: **0.0272** — Article Infl. 2005: **3.3447**; last: **2.4855**
- 49) **Fettweis, X.**, Gallée, H, Lefebre, F, & van Ypersele, J.-P. (2005). Greenland surface mass balance simulated by a regional climate model and comparison with satellite derived data in 1990-1991. *Climate Dynamics*, 24, 623-640.
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 IF 2005: **3.468**; last: **4.231**; IF5: **4.869** — EigenF 2005: **0.0358**; last: **0.0272** — Article Infl. 2005: **3.3447**; last: **2.4855**













4. Articles accepted in journals without committee (non-peer reviewed)




5. Articles accepted in conference proceedings

- 1) Belleflamme, A, **Fettweis, X.** & Erpicum, M. (2012). Les modèles globaux projettent-ils plus de blocages anticycloniques en Europe pour le futur ? In S., Bigot & S., Rome (Eds.), *XXVème colloque de l'Association Internationale de Climatologie - Les climats régionaux : observation et modélisation*.
 <http://hdl.handle.net/2268/130575>
 ORBi viewed: **25** (1 ULg) ; downloaded: **17**
- 2) Doutreloup, S, **Fettweis, X.** & Erpicum, M. (2012). ÉVOLUTION DU COMPORTEMENT DU VENT ET DE SON POTENTIEL POUR LA PRODUCTION D'ÉNERGIE ÉOLIENNE DURANT LES 30 DERNIÈRES ANNÉES : LE CAS DE LA BELGIQUE. In S., Bigot & S., Rome (Eds.), *Les climats régionaux : observation et modélisation. (Actes du colloque organisé à Grenoble du mercredi 5 au samedi 8 septembre 2012)* (pp. 249-254). Grenoble, France: LTHE.
 <http://hdl.handle.net/2268/131418>
 ORBi viewed: **61** (4 ULg) ; downloaded: **35** (3 ULg)
- 3) Doutreloup, S, **Fettweis, X.** & Erpicum, M. (2011). Influences de l'environnement d'un parc éolien sur la prévision de sa production électrique à l'aide des modèles GFS (50km/3h) et WRF (2km/15min) : Le cas du parc éolien d'Amel (Haute-Belgique). In M., Fazzini & G., Beltrando (Eds.), *Actes du XXIVème Colloque International AIC : Climat Montagnard et Risques* (pp. 209-214).
 <http://hdl.handle.net/2268/101087>
 ORBi viewed: **50** (5 ULg) ; downloaded: **72** (1 ULg)
- 4) Belleflamme, A, **Fettweis, X.** & Erpicum, M. (2011). Circulation atmosphérique simulée par les modèles de circulation générale en Europe de l'ouest : évaluation et projections futures. In M., Fazzini & G., Beltrando (Eds.), *XXIVème colloque de l'Association Internationale de Climatologie - Climat montagnard et risques*.
 <http://hdl.handle.net/2268/130574>
 ORBi viewed: **31** ; downloaded: **17**
- 5) Doutreloup, S, Erpicum, M, **Fettweis, X.** & Ozer, P. (2011). Analysis of the past (1970-1999) and future (2046-2065 and 2081-2100) evolutions of precipitation and temperature, in the Province of Binh Thuan, South East Vietnam, based on IPCC models. *Proceedings of the 1st International Conference on Energy, Environment and Climate Change*.
 <http://hdl.handle.net/2268/96759>
 ORBi viewed: **70** (14 ULg) ; downloaded: **49** (6 ULg) — SCOPUS®: -








6. Oral presentations in conferences with scientific selection committee














- 1) **Fettweis, X**, Gallée, H, van den Broeke, M, Tedesco, M, van Angelen, J, Lenearts, J, & Erpicum, M. (2013, April 10).  *Estimation of the Greenland ice sheet surface mass balance contribution to future sea level rise using the regional climate model MAR*. Paper presented at European Geosciences Union General Assembly 2013, Vienna, Austria.
<http://hdl.handle.net/2268/147107>
ORBi viewed: **33** (5 ULg) ; downloaded: **18** (4 ULg)
- 2) Agosta, C, Favier, V, **Fettweis, X**, Genthon, C, Gallée, H, & Krinner, G. (2013, January).  *Modélisation du bilan de masse de surface Antarctique : quelle stratégie et quelle validation ?* Paper presented at Ateliers de Modélisation de l'Atmosphère (AMA) 2013, Toulouse, France.
<http://hdl.handle.net/2268/143968>
ORBi viewed: **22** (3 ULg) ; downloaded: **6**
- 3) Agosta, C, **Fettweis, X**, Krinner, G, Gallée, H, & Genthon, C. (2012, December 04).  *Future surface mass balance contribution of the Antarctic ice-sheet to sea level rise*. Paper presented at Geographisches Kolloquium, Aachen University (Germany), Aachen, Germany.
<http://hdl.handle.net/2268/143969>
ORBi viewed: **28** ; downloaded: **7**
- 4) **Fettweis, X**, Franco, B, Lang, C, & Erpicum, M. (2012, September 11).  *Future projections of the Greenland ice sheet surface mass balance simulated by the regional climate model MAR forced by three CMIP5 global models*. Paper presented at 4th International Geologica Belgica Meeting 2012, Brussels, Belgium.
<http://hdl.handle.net/2268/141692>
ORBi viewed: **20** (2 ULg) ; downloaded: **1** (1 ULg)
- 5) Nicolay, S, & **Fettweis, X**. (2012, September 10).  *Several years El Niño forecast using a wavelet-based mode decomposition*. Paper presented at FNRS Contact Group: Wavelets and Applications, Bruxelles, Belgium.
<http://hdl.handle.net/2268/130337>
ORBi viewed: **22** (7 ULg) ; downloaded: **0**
- 6) Lang, C, **Fettweis, X**, Doutreloup, S, & Erpicum, M. (2012, June 01).  *Evaluation of the MAR and WRF regional climate models over Svalbard*. Paper presented at MeteoClim 2012, Liège.
<http://hdl.handle.net/2268/124550>
ORBi viewed: **32** (2 ULg) ; downloaded: **16** (1 ULg)
- 7) Nicolay, S, & **Fettweis, X**. (2012, April 23).  *Several years El Niño forecast using a wavelet-based mode decomposition*. Paper presented at European Geoscience Union General Assembly 2012.
<http://hdl.handle.net/2268/123031>
ORBi viewed: **9** (3 ULg) ; downloaded: **0**
- 8) **Fettweis, X**, & Franco, B. (2012, February 14).  *Future projections of the Greenland ice sheet climate simulated by the regional climate model MAR forced by 2 CMIP5 global models*. Paper presented at 3rd ICE2SEA Open Forum, Amsterdam, The Netherlands.
<http://hdl.handle.net/2268/141683>
ORBi viewed: **41** (2 ULg) ; downloaded: **5** — SCOPUS®: -
- 9) Doutreloup, S, **Fettweis, X**, & Erpicum, M. (2011, September 16).  *Evolution of wind behaviour and of its potential for wind power production in Belgium during the last 22 years : a comparison between WRF forced by NCEP2 reanalysis and WRF forced by ERA-INTERIM reanalysis*. Paper presented at 11th EMS Annual Meeting & 10th European Conference on Applications of Meteorology, Berlin, Germany.
<http://hdl.handle.net/2268/98992>
ORBi viewed: **83** (8 ULg) ; downloaded: **58** (5 ULg)
- 10) Franco, B, **Fettweis, X**, & Erpicum, M. (2011, September 07).  *Influence de la résolution spatiale sur la modélisation du bilan de masse en surface de la calotte glaciaire du Groenland*. Paper presented at XXIV colloque de l'Association Internationale de Climatologie, Rovereto, Italie.
<http://hdl.handle.net/2268/99597>
ORBi viewed: **36** (5 ULg) ; downloaded: **25** (1 ULg)
- 11) Belleflamme, A, **Fettweis, X**, & Erpicum, M. (2011, April 08).  *Evaluation of the present and future general circulation over western Europe simulated by the IPCC AR5/CMIP5 GCMs with the help of a circulation type classification*. Paper presented at EGU General Assembly 2011, Vienna, Austria.
<http://hdl.handle.net/2268/88650>
ORBi viewed: **101** (11 ULg) ; downloaded: **65** (5 ULg)





- 12) **Fettweis, X**, van den Broeke, M, van de Berg, W. J, Tedesco, M, Belleflamme, A, Franco, B, & Ericum, M. (2011, April 06).  *Explanation of the extreme low surface mass balance over the Greenland ice sheet in 2010 with the help of a regional climate model and a circulation type classification*. Paper presented at EGU General Assembly 2011, Vienna, Austria.
<http://hdl.handle.net/2268/88639>
ORBi viewed: **71** (13 ULg) ; downloaded: **27** (4 ULg)
- 13) **Fettweis, X**, Tedesco, M, & van den Broeke, M. (2011, April 05).  *Assimilation of the 1979-2009 microwave satellite data into the regional climate MAR model for studying the Greenland ice sheet melt extent*. Paper presented at EGU General Assembly 2011, Vienna, Austria.
<http://hdl.handle.net/2268/88387>
ORBi viewed: **45** (3 ULg) ; downloaded: **18**
- 14) **Fettweis, X**, van den Broeke, M, van de Berg, W. J, Belleflamme, A, Franco, B, & Ericum, M. (2011, April 05).  *Evaluation of the Greenland ice sheet surface mass balance simulated by a regional climate model forced by some selected IPCC AR5/CMIP5 AOGCMs over the current climate*. Paper presented at E, Vienna, Austria.
<http://hdl.handle.net/2268/88640>
ORBi viewed: **66** (11 ULg) ; downloaded: **38** (2 ULg)
- 15) Franco, B, **Fettweis, X**, & Ericum, M. (2011, January 14).  *Impact of the spatial resolution on the Greenland ice sheet surface mass balance modelling using the regional climate model MAR*. Paper presented at Centre géosciences de l'ULg - 2ième journée des doctorants, Liège, Belgique.
<http://hdl.handle.net/2268/92420>
ORBi viewed: **15** (5 ULg) ; downloaded: **8** (2 ULg)
- 16) Sacré, B, **Fettweis, X**, Doutreloup, S, Franco, B, van den Broeke, M, & Ericum, M. (2011).  *Evaluation over Greenland of WRF with GC-NET observations (1995-2005) by comparison with 2 other RCMs*. Paper presented at EGU General Assembly 2011, Vienna, Austria.
<http://hdl.handle.net/2268/88817>
ORBi viewed: **48** (7 ULg) ; downloaded: **55** (3 ULg)
- 17) Belleflamme, A, **Fettweis, X**, & Ericum, M. (2010, November 23).  *Using a circulation type classification to analyse the general circulation over Greenland simulated by GCMs*. Paper presented at COST733 Final Workshop, Vienna, Austria.
<http://hdl.handle.net/2268/78590>
ORBi viewed: **30** (4 ULg) ; downloaded: **7**
- 18) Belleflamme, A, **Fettweis, X**, & Ericum, M. (2010, November 05).  *Analysis of the atmospheric circulation simulated by GCMs over Greenland*. Paper presented at MeteoClim2010, Brussels, Belgium.
<http://hdl.handle.net/2268/75356>
ORBi viewed: **42** (14 ULg) ; downloaded: **19** (3 ULg)
- 19) Doutreloup, S, **Fettweis, X. (Other coll.)**, & Ericum, M. (Other coll.). (2010, October 22).  *Interests of regional modelisation for wind power forecasting*. Paper presented at 4th Belgian Geography Days, Leuven, Belgium.
<http://hdl.handle.net/2268/74572>
ORBi viewed: **56** (8 ULg) ; downloaded: **41** (3 ULg)
- 20) Franco, B, **Fettweis, X**, & Ericum, M. (2010, January 21).  *Modélisation à haute résolution de l'impact actuel et futur du réchauffement climatique sur le bilan de masse en surface de la calotte glaciaire du Groenland*. Paper presented at Centre géosciences de l'ULg - 1ère journée des doctorants, Liège, Belgique.
<http://hdl.handle.net/2268/93116>
ORBi viewed: **12** (2 ULg) ; downloaded: **13** (3 ULg)
- 21) **Fettweis, X**. (2009, April 23).  *The 1958-2008 Greenland ice sheet surface melt and the mid-tropospheric atmospheric circulation*. Paper presented at EGU General Assembly 2009, Vienna, Austria.
<http://hdl.handle.net/2268/36762>
ORBi viewed: **13** (2 ULg) ; downloaded: **16** (1 ULg)
- 22) Ericum, M, **Fettweis, X**, & Mabile, G. (2008, October 02).  *Analysis of climatic conditions of wildfires in Belgium with an automatic daily atmospheric circulation patterns classification*. Paper presented at European Conference on Applied Climatology, Amsterdam, Netherlands.
<http://hdl.handle.net/2268/76036>
ORBi viewed: **9** (2 ULg) ; downloaded: **4** (1 ULg) — SCOPUS®: -
- 23) **Fettweis, X**. (2008, April 15).  *Estimation of the 1900-2100 Greenland ice sheet surface mass balance*. Paper presented at EGU General Assembly 2008, Vienna, Austria.
<http://hdl.handle.net/2268/36750>
ORBi viewed: **22** (2 ULg) ; downloaded: **10** (1 ULg)

- 24) **Fettweis, X**, Hanna, E, Gallée, H, & Erpicum, M. (2008, April). *Estimation of the 1900-2100 Greenland ice sheet surface mass balance*. Paper presented at EGU 2008 General Assembly, Vienne, Autriche.
 <http://hdl.handle.net/2268/59540>
 ORBi viewed: 14 (2 ULg) ; downloaded: 9 (1 ULg)
- 25) **Fettweis, X**. (2007, April 17). *Reconstruction of the 1979-2005 Greenland ice sheet surface mass balance using satellite data and the regional climate model MAR*. Paper presented at EGU General Assembly 2007, Vienna, Austria.
 <http://hdl.handle.net/2268/36741>
 ORBi viewed: 9 (1 ULg) ; downloaded: 3 (1 ULg)
- 26) **Fettweis, X**. (2004, April 27). *Greenland ice sheet melt: intercomparison between SSM/I and a regional climate model*. Paper presented at European Geosciences Union 1st General Assembly, Nice, France.
 <http://hdl.handle.net/2268/36729>
 ORBi viewed: 6 (3 ULg) ; downloaded: 3 (2 ULg)

7. Posters for a doctoral mandate (candidate, clinician-researcher) or postdoctoral (researcher)

- 1) Lang, C, **Fettweis, X**, & Erpicum, M. (2013, April 11). *Modelling of the surface mass balance of Svalbard with the regional climate model MAR*. Paper presented at European Geosciences Union - General Assembly 2013.
 <http://hdl.handle.net/2268/155308>
 ORBi viewed: 22 (5 ULg) ; downloaded: 8 (2 ULg) — SCOPUS®: -
- 2) Agosta, C, Favier, V, Krinner, G, Gallée, H, **Fettweis, X**, & Genthon, C. (2013, April). *High-resolution modelling of the Antarctic surface mass balance, application for the 20th, 21st and 22nd centuries*. Paper presented at European Geosciences Union General Assembly 2013, Vienne, Autriche.
<http://hdl.handle.net/2268/145017>
 ORBi viewed: 22 (3 ULg)
- 3) Agosta, C, **Fettweis, X**, & Gallée, H. (2013, April). *Estimating Antarctic ice sheet surface mass balance contribution to future sea level rise using the regional atmospheric climate model MAR*. Paper presented at European Geosciences Union General Assembly 2013, Vienne, Autriche.
<http://hdl.handle.net/2268/145016>
 ORBi viewed: 31 (3 ULg)
- 4) Pirard, X, Jorion, N, Doutreloup, S, **Fettweis, X**, & Erpicum, M. (2012, September 07). *RECOURS À UNE CAMPAGNE DE MESURES TOPOCLIMATIQUES APPLIQUÉE POUR UNE ÉTUDE COMPARATIVE DE VARIABLES MÉTÉOROLOGIQUES CONCOMITANTES PROVENANT DES STATIONS MÉTÉOROLOGIQUES DE BRUGGE ET DU MONT RIGI EN BELGIQUE*. Paper presented at 25ème colloque de l'Association Internationale de Climatologie - 5 au 8 septembre 2012, Grenoble, France.
 <http://hdl.handle.net/2268/131392>
 ORBi viewed: 36 (4 ULg) ; downloaded: 16 (2 ULg)
- 5) Lang, C, **Fettweis, X**, & Erpicum, M. (2012, September). *Evaluation des modèles climatiques régionaux MAR et WRF sur le Svalbard*. Paper presented at 25ème Colloque de l'Association Internationale de Climatologie (AIC), Grenoble, France.
 <http://hdl.handle.net/2268/131601>
 ORBi viewed: 51 (9 ULg) ; downloaded: 43 (7 ULg)
- 6) Belleflamme, A, **Fettweis, X**, & Erpicum, M. (2012, April 26). *Are the CMIP5 GCMs able to simulate atmospheric blocking situations over Europe ?* Paper presented at EGU General Assembly 2012, Vienna, Austria.
 <http://hdl.handle.net/2268/123449>
 ORBi viewed: 29 ; downloaded: 13
- 7) Lang, C, **Fettweis, X**, Doutreloup, S, & Erpicum, M. (2012, April 24). *Evaluation of the regional climate model WRF over Svalbard*. Paper presented at EGU General Assembly 2012.
 <http://hdl.handle.net/2268/124137>
 ORBi viewed: 40 (5 ULg) ; downloaded: 32 (4 ULg)
- 8) Doutreloup, S, **Fettweis, X**, & Erpicum, M. (2012, April 23). *Estimation, prévision et contrôle du gisement solaire en région wallonne*. Paper presented at Journée scientifique des comices "Energie solaire", Namur, Belgique.
 <http://hdl.handle.net/2268/124248>
 ORBi viewed: 30 (1 ULg) ; downloaded: 51 (1 ULg)
- 9) Belleflamme, A, **Fettweis, X**, & Erpicum, M. (2011, April 05). *Evaluation of the present and future general circulation over Greenland simulated by the IPCC AR5/CMIP5 GCMs with the help of a circulation type classification*. Paper presented at EGU General Assembly 2011, Vienna, Austria.
 <http://hdl.handle.net/2268/88679>
 ORBi viewed: 58 (10 ULg) ; downloaded: 17 (4 ULg)

- 10) Franco, B, **Fettweis, X**, & Erpicum, M. (2011, April 05). *Impact of the spatial resolution on the Greenland Ice Sheet Surface Mass Balance modelling using the regional climate model MAR with the aim to force an ice sheet model*. Paper presented at European Geosciences Union General Assembly 2011, Vienna, Austria.
 <http://hdl.handle.net/2268/89944>
 ORBi viewed: **36** (5 ULg) ; downloaded: **25**
- 11) Doutreloup, S, **Fettweis, X. (Other coll.)**, Sacré, B. (Other coll.), & Erpicum, M. (Other coll.). (2011, April 04). *Evolution of wind behaviour and of its potential for wind power production in Belgium during the last 30 years*. Paper presented at European Geosciences Union - General Assembly 2011, Wien, Austria.
 <http://hdl.handle.net/2268/89978>
 ORBi viewed: **49** (8 ULg) ; downloaded: **29** (5 ULg)
- 12) Franco, B, **Fettweis, X**, & Erpicum, M. (2010, November 05). *High resolution modelling of the Greenland ice sheet surface mass balance using the regional climate model MAR coupled with a downscaling interface*. Paper presented at Meteoclim PhD Symposium, Bruxelles, Belgium.
 <http://hdl.handle.net/2268/89940>
 ORBi viewed: **27** (4 ULg) ; downloaded: **10**
- 13) **Fettweis, X**, & Marco, T. (2010, May 03). *Microwave data and a regional climate model for studying the Greenland ice sheet surface mass balance over 1979-2009*. Paper presented at EGU General Assembly 2010, Vienna, Austria.
 <http://hdl.handle.net/2268/36764>
 ORBi viewed: **94** (8 ULg) ; downloaded: **56** (2 ULg)
- 14) **Fettweis, X**. (2009, April 24). *The 1958-2008 Greenland ice sheet surface mass balance variability simulated by the regional climate model MAR*. Paper presented at EGU General Assembly 2009, Vienna, Austria.
 <http://hdl.handle.net/2268/36763>
 ORBi viewed: **15** (1 ULg) ; downloaded: **4**
- 15) Franco, B, **Fettweis, X**, Erpicum, M, & Nicolay, S. (2009, April). *Greenland ice sheet projections from IPCC AR4 global models*. Paper presented at European Geosciences Union General Assembly 2009, Vienna, Austria.
 <http://hdl.handle.net/2268/59543>
 ORBi viewed: **35** (11 ULg) ; downloaded: **15** (4 ULg)
- 16) Mabile, G, **Fettweis, X**, Erpicum, M, & Nicolay, S. (2009, April). *Confidence Levels for the Cycles Found in Air Temperature Data*. Paper presented at European Geosciences Union General Assembly, Vienne, Autriche.
 <http://hdl.handle.net/2268/90667>
 ORBi viewed: **24** (3 ULg) ; downloaded: **17** (3 ULg)
- 17) Nicolay, S, Mabile, G, **Fettweis, X**, & Erpicum, M. (2009, April). *Cycles in the Temperature Data Are Induced by the Sun*. Paper presented at European Geosciences Union General Assembly, Vienne, Autriche.
 <http://hdl.handle.net/2268/90668>
 ORBi viewed: **21** (5 ULg) ; downloaded: **22** (10 ULg)
- 18) Franco, B, **Fettweis, X**, & Erpicum, M. (2009, January 28). *Greenland ice sheet surface mass balance projections from IPCC AR4 global models*. Paper presented at Meteoclim PhD Symposium, Louvain-la-Neuve, Belgium.
 <http://hdl.handle.net/2268/89939>
 ORBi viewed: **18** (3 ULg) ; downloaded: **5**
- 19) **Fettweis, X**. (2008, April 15). *Impacts of ice sheet mask and resolution on estimating the surface mass balance of the Greenland ice sheet*. Paper presented at EGU General Assembly 2008, Vienna, Austria.
 <http://hdl.handle.net/2268/36752>
 ORBi viewed: **16** ; downloaded: **23**
- 20) **Fettweis, X**. (2008, April 15). *A record negative Greenland ice sheet surface mass balance rate in 2007*. Paper presented at EGU General Assembly 2008, Vienna, Austria.
 <http://hdl.handle.net/2268/36751>
 ORBi viewed: **23** ; downloaded: **16**
- 21) Erpicum, M, **Fettweis, X**, Mabile, G, & François, L. (2008, April). *Automatic 1958-2007 daily weather pattern classification applied to an analysis of climatic conditions of wildfires in eastern Belgium*. Paper presented at EGU General Assembly 2008, Vienne, Autriche.
 <http://hdl.handle.net/2268/79906>
 ORBi viewed: **20** ; downloaded: **12** — SCOPUS®: -
- 22) Franco, B, **Fettweis, X**, & Erpicum, M. (2008, April). *Last century Greenland ice sheet surface mass balance projections from IPCC AR4 global models*. Paper presented at European Geosciences Union General Assembly 2008, Vienna, Austria.
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8. Patents
