

- Publications - CV Devleeschouwer Xavier -

Refereed publications (peer-review)

[1] Pr at A., Mamet B. & **Devleeschouwer X.** (1998) - Microfaci es et s quences dans une s rie condens e du D vonian Sup rieur, Coumiac, Montagne Noire. - Bull. Soc. G ol. France, 3, 331-342,

[2] **Devleeschouwer X.**, Herbosch A. and Pr at A. (2002) - Microfacies, sequence stratigraphy and clay mineralogy of a condensed deep-water section around the Frasnian-Famennian boundary (Steinbruch Schmidt, Germany). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 181, 171-193,

[3] Casier J.-G., **Devleeschouwer X.**, Lethiers F., Pr at A. and Racki G. (2002) - Ostracods and fore-reef sedimentology of the Frasnian-Famennian boundary beds in Kielce (Holy Cross Mountains, Poland). *Acta Paleontologica Polonica*, 47 (2), 227-246,

[4] Racki G., Racka M., Matyja H. & **Devleeschouwer X.** (2002) - The Frasnian/Famennian boundary interval in the South Polish-Moravian shelf basins: integrated event-stratigraphical approach. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 181, 251-297,

[5] Tribovillard N., Averbuch O., **Devleeschouwer X.**, Racki G. & Riboulleau A. (2004) - Deep-water anoxia during the Frasnian-Famennian boundary events (La Serre, France): an echo of a tectonically-induced Late Devonian oceanic anoxic event? *Terra Nova*, 16, 288-295.

[6] Averbuch O., Tribovillard N., **Devleeschouwer X.**, Riquier L., Mistiaen B. & van Vliet-Lanoe B. (2005) - Mountain building-enhanced continental weathering and organic carbon burial as major causes for climatic cooling at the Frasnian-Famennian boundary (ca 376 Ma BP). *Terra Nova*, 17, 25-34.

[7] Riquier L, Tribovillard N, Averbuch O, **Devleeschouwer X**, Riboulleau A (2006) - The Late Frasnian Kellwasser horizons of the Harz Mountains (Germany): two oxygen-deficient periods resulting from contrasting mechanisms. *Chemical Geology*, 233(1-2), 137-155.

[8] Riquier L., Averbuch O., **Devleeschouwer X.** & Tribovillard N. (submitted) - Rock magnetic evidences for a major climatic transition at the Frasnian-Famennian boundary (ca 375 Ma BP). *Earth Planetary and Science Letters*.

Reviewed publications

[1] Casier J.-G. et **Devleeschouwer X.** (1995) - Arguments (Ostracodes) pour une r gression culminant   proximit  de la limite Frasnien-Famennien,   Sinsin (Bord Sud du Bassin de Dinant, Belgique). - Bull. Inst. roy. Sc. nat. Belg, Sciences de la Terre, 65, 51-68,

[2] **Devleeschouwer X.** et Boulvain F. (1997) - Inventaire syst matique des sondages. Planchettes 214W   226E (Lorraine Belge). - Internal Report du Service G ologique de Belgique, 172 p.,

[3] Boulvain F., Herbosch A. and **Devleeschouwer X.** (1998) - Sedimentology of Givetian - Visayan time window in the Ardennes Allochton Belgium - In: Joachimski, M.M. (Editor) Middle Devonian to Lower Carboniferous in Belgium and Germany -

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Guidebook of the Field Trip organized by IGCP 386: Response of the Oceanic/Atmospheric Systems to Global change, 4-35,

[4] Casier J.-G., **Devleeschouwer X.**, Lethiers F., Pr at A. and Racki G. (2000) - Ostracods and sedimentology of the Frasnian-Famennian boundary of the Kostomloty section (Holy Cross Mountains, Poland) in relation with the Late Devonian mass extinction. Bulletin de l'Inst. roy. Sci. nat. Belg., Sciences de la Terre, 70, 53-74,

[5] **Devleeschouwer X.**, Delforge X., Decupere B., Roche M. & Hance L. (2002) - Coal heritage from southern Belgium: a preservation and computerized management of coal concessions data. Proceedings of the 4th European Coal Conference, Ustron Poland, Polish Geological Institute Special Papers, 7, 79-86.

[6] **Devleeschouwer X.**, Decupere B., Delforge X., Roche M. & Hance L. (2002) - Informatisation des donn es mini res des Charbonnages de Wallonie: sauvetage et valorisation d'un patrimoine (le Projet Geoindex). Publication des actes du Sixi me Congr s de l'Association des Cercles francophones d'Histoire et d'Arch ologie de Belgique, 211-222.

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[8] **Devleeschouwer X.** & Pouriel F. (2005) - Preliminary results for Brussels. In: NPA Group (Ed.) GMES-TerraFirma Brochure: A ground motion information service for Europe, p. 10-11.

[9] **Devleeschouwer X.**, Pouriel F. & Declercq P.-Y. (2005) - Bombement des sols dans le coeur de Bruxelles r v l  par interf rom trie radar: une technique spatiale de pointe. Science Connection, 6/2, 21-23.

[10] **Devleeschouwer X.**, Pouriel F. & Declercq P.-Y. (2005) - Kosmische spitsstechnologie: radarinterferometrie onthult vervormingen van het Brusselse bodemoppervlak. Science Connection, 6/2, 21-23.

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[12] Rosset P., Petermans T., **Devleeschouwer X.**, Pouriel F. & Camelbeeck T. (2005) - Identifying the influence of the local geology in case of earthquake for urban planning: case study in Brussels. In: *Les journ es G ographiques Belges, Mobilit , Soci t  et Environnement en Cartes*, 9 novembre 2005, T. II, 171-177.

[13] **Devleeschouwer X.**, Mullard C. & Goemaere E. (2005) - Underground workings of slate vein and coticule in the Commune of Vielsalm (Belgium): the geological risk management through database and GIS. In: Proceedings of the Post-Mining Colloquium organized by GISOS, Nancy, November 2005, 13 pages.

[14] Riquier L., Tribovillard N., Averbuch O., Joachimski M.M., Racki G., **Devleeschouwer X.**, El Albani A., Riboulleau A. (2005) - Productivity and bottom water redox conditions at the Frasnian-Famennian boundary on the both sides of the Eovariscan Belt constraints from trace element geochemistry. In: Over, D.J., Morrow, J.R., and Wignall, P.B. (Eds.) Understanding Late Devonian and Permian-

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Triassic Biotic and Climatic Events: Towards an Integrated Approach, Elsevier B.V., 199-224.

[15] Declercq P.-Y., **Devleeschouwer** X. & Pouriel F. (2005) - Subsidence revealed by PSInSAR technique in the Ottignies-Wavre area (Belgium) related to water pumping in urban area. In: *Proceedings of the Fringe 2005 Workshop, ESA - ESRIN*, 28 November - 2 December 2005, Frascati, Italy, 6 pages.

[16] **Devleeschouwer** X. & Pouriel F. (winter 2005/2006) - The subsurface geology of Brussels, Belgium, is modeled with 3D GIS. ESRI GIS in action, online article: <http://www.esri.com/news/arcnews/winter0506/articles/subsurface-geology.html>.

[17] **Devleeschouwer** X., Pouriel F. & Declercq P.-Y. (2006) - Vertical displacements (uplift) revealed by the PSInSAR technique in the centre of Brussels, Belgium. *Proceedings of the IAEG2006 Engineering geology for tomorrow's cities*, Nottingham, United Kingdom, 6th-10th September 2006, IAEG2006 Paper number 416, 10 pages.

[18] Petermans T., **Devleeschouwer** X., Pouriel F. & Rosset P. (2006) - Mapping the local seismic hazard in the urban area of Brussels, Belgium. *Proceedings of the IAEG2006 Engineering geology for tomorrow's cities*, Nottingham, United Kingdom, 6th-10th September 2006, IAEG2006 Paper number 424, 11 pages.

[19] **Devleeschouwer** X. & Pouriel F. (2006) - Brussels Urban Geology (BUG): a 2D and 3D model of the underground by means of GIS. *Proceedings of the IAEG2006 Engineering geology for tomorrow's cities*, Nottingham, United Kingdom, 6th-10th September 2006, IAEG2006 Paper number 420, 9 pages.

[20] **Devleeschouwer** X., Mullard C. & Goemaere E. (2006) - Management of abandoned slate and coticule underground quarries by means of GIS, Vielsalm, Belgium. *Proceedings of the IAEG2006 Engineering geology for tomorrow's cities*, Nottingham, United Kingdom, 6th-10th September 2006, IAEG2006 Paper number 413, 11 pages.

[21] **Devleeschouwer** X. (2006) - GIS management of abandoned colliery in the Mons basin (Belgium): a case study at Levant de Mons. *Proceedings of the IAEG2006 Engineering geology for tomorrow's cities*, Nottingham, United Kingdom, 6th-10th September 2006, IAEG2006 Paper number 423, 7 pages.

[22] **Devleeschouwer** X., Goemaere E. & Mullard C. (2006) - Les carrières souterraines abandonnées d'ardoise et de coticule à Vielsalm et Bertrix (Province de Luxembourg, Belgique): développement d'un outil de gestion SIG. *Géologie de l'Ardenne occidentale, Journées spécialisées Givet*, 4-6 mai 2006, Géologie de la France, Vol. 1-2, 135-140.

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[24] **Devleeschouwer** X. (2006) - Ground motion (uplift) in the centre of Brussels related to groundwater recharge. *GMES Terrafirma Newsletter*, Issue 1 - May 2006, 6-7.

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[25] **Devleeschouwer X.** (2006) – Ground motion (uplift) in the centre of Brussels related to groundwater recharge. *European Geologist*, 22, 29-31.

Publications soumises - Submitted publications

Browitt C., Walker A., Aktar M. & **Devleeschouwer X.** (submitted) - Monitoring millimetric ground movements from space: The European Space Agency's GMES TerraFirma Project. *Geoscientist*.

Rapports non publiés - Unpublished reports

[1] **Devleeschouwer X.** (1997): Rapport intermédiaire dans le cadre du Projet NAT/96-1.6: "Etude et encodage de sondages en Wallonie", 172 pages.

[2] **Devleeschouwer X.** (1998). Rapport final du Projet NAT/96-1.6: "Etude et encodage de sondages en Wallonie", 91 pages.

[3] **Devleeschouwer X.** (1999): La limite Frasnien-Famennien (Dévonien Supérieur) en Europe: sédimentologie, stratigraphie séquentielle et susceptibilité magnétique. Thèse de Doctorat de l'ULB et de l'USTL, 414 pages.

[4] **Devleeschouwer X. et Decupere B.** (2000). Rapport final du Projet NAT/98-4.2.: "Un projet pilote de géologie urbaine dans la région de Mons", 122 pages.

[5] **Devleeschouwer X.** avec la collaboration de Decupere B., Delforge X., Beissel B. et Licki M. (2002). Rapport final du Projet NAT/00-4.2.: "Une cartographie des zones à risques des séquelles charbonnières de Wallonie", 156 pages.

[6] **Devleeschouwer X.** et Pouriel F. (2004). Le programme BUG (Brussels Urban Geology): la géologie urbaine en 2D et 3D. Rapport intermédiaire, 18 pages.

[7] Pouriel F. (2005). Le programme BUG (Brussels Urban Geology): la géologie urbaine en 2D et 3D. Rapport final, pages. Promoteur - **Devleeschouwer X.**

[8] Pouriel F. (2006). Analyse des mouvements du sol par interférométrie radar sur une zone pilote du bassin charbonnier de Liège. Convention entre le Service Géologique de Belgique et la Région Wallonne (DGRNE, Direction des Eaux souterraines). Rapport intermédiaire, 28 pages. Promoteur - **Devleeschouwer X.**

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Résumés de congrès - Conference abstracts

[1] Casier J.-G. & **Devleeschouwer X.** (1994) - Ostracods and the upper Devonian mass extinction in the southern border of the Dinant Basin. - 12th International Symposium on Ostracoda, Ostracoda and biostratigraphy, Prague, Tchéquie, 26-30 Juillet, p. ,

[2] Casier J.-G. et **Devleeschouwer X.** (1995) - Ostracods and the Upper Devonian mass extinction in the southern border of the Dinant Basin (Belgium). - In: Riha, J. (Ed.): Ostracoda and biostratigraphy, Proceedings of the 12th International Symposium on Ostracoda, p. 422.

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[4] Devleeschouwer X. , Pr at A. & Herbosch A. (1996) - S dimentologie et g ochimie isotopique (C, O)   la limite Frasnien-Famennien en Belgique - 17th Regional African European Meeting of Sedimentology, Sfax, Tunisie, 26-28 Mars, p. 76.

[5] Herbosch A., Claeys P., Devleeschouwer X. & Pr at A. (1996) - Etude g ochimique de la limite Frasnien-Famennien   Hony (Belgique). - 17th Regional African European Meeting of Sedimentology, Sfax, Tunisie, 26-28 Mars, p. 124.

[6] Pr at A., Mamet B. & Devleeschouwer X. (1995) - Microfacies et s quences dans une s rie condens e du D vonien Sup rieur, Coumiac, Montagne Noire. - Congr s Faune, Flore et Stratigraphie s quentielle, Paris, 14-15 D cembre, p.42.

[7] Devleeschouwer X., Pr at A. and Herbosch A. (1997) - Sedimentological comparison between Coumiac (France) and Schmidt (Germany) Sections at the Frasnian-Famennian boundary. - CSPG-SEPM 1997 Joint Convention, Program with Abstracts, Calgary, Canada, 3-7 Juin, p. 79.

[8] Pr at A., Herbosch A., Weiss D. & Devleeschouwer X. (1997) - The Frasnian/Famennian stage boundary at Coumiac (Montagne Noire, France) : sedimentology, sequences and geochemistry. - 18th Regional European Meeting of Sedimentology, Heidelberg, Allemagne, 2-4 Septembre, pp. 283-284.

[9] Devleeschouwer X., Pr at A. and Herbosch A. (1997) - Comparaison s dimentologique entre les coupes de Coumiac (France) et Schmidt (Allemagne)   la limite Frasnien-Famennien. - 6^{ me} Congr s Fran ais de S dimentologie, Montpellier, France, 17-19 Novembre, p. 87.

[10] Herbosch A., Pr at A. et Devleeschouwer X. (1997) - G ochimie et S dimentologie de la limite Frasnien/Famennien dans le stratotype de Coumiac, (Montagne Noire, France). - 6^{ me} Congr s Fran ais de S dimentologie, Montpellier, France, 17-19 Novembre, pp. 137-138.

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[12] Casier J.-G., Lethiers F. and Devleeschouwer X. (1999) - The extinction of ostracods during the Late Devonian mass extinction: the Kostomloty section example (Holy Cross Mountains, Poland). - Workshop on Geological and Biological Evidence for Global Catastrophes, Esp raza/Quillan, France, 26-30 September, p.18.

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- [20] Da Silva A-C., **Devleeschouwer X.**, & Strel M. (2003) - Magnetosusceptibility, sedimentology and biostratigraphy at the Frasnian-Famennian boundary between Southern France and eastern Belgium. - Session acad mique du 22/11/2003 en hommage   Pierre Bultynck, IRScNB, p. 7.
- [21] Averbuch O., Tribovillard N., Riquier L. et **Devleeschouwer X.** (2003) - Impact d'une orog nese sur le climat et la biosph re : la cha ne Eovarisque (ou Acado-lig rienne, 380-360 Ma) et les  v nements de la limite Frasnien-Famennien. - Colloque Tecto-Clim, Lille, D cembre 2003, pp. 6-7.
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- [23] **Devleeschouwer X.**, Pouriel F. (2005) - Le programme BUG (Brussels Urban Geology): mod lisation en 2D et 3D du sous-sol de Bruxelles sous ArcGIS. Journ e d' tude de Geologica Belgica, 1^{er} mars 2005, Louvain-la-Neuve, 1p..
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- [26] Rosset P., Petermans T., **Devleeschouwer** X., Pouriel F., Camelbeeck T. (2006) - Identifying the influence of the local geology in case of earthquake for urban planning: case study in Brussels. Les journées Géographiques Belges, Mobilité, Société et Environnement en Cartes, novembre 2005, Gand, 1p.
- [27] Mullard C., **Devleeschouwer** X. & Goemaere E. (2005) - Underground workings of slate and coticule in the commune of Vielsalm (Belgium): the geological risk management through database and GIS. Post-Mining Colloquium organized by GISOS, Colloque 2005, 16-18 novembre 2005, Nancy, p.4.
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- [32] **Devleeschouwer** X. (2006) - GIS management of abandoned colliery in the Mons basin (Belgium): a case study at Levant de Mons. Abstract of the 10th IAEG International Congress, United Kingdom, 6th-10th September 2006, p. 42.
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