

Michel Jaboyedoff 教授の御略歴

氏名 : Michel Jaboyedoff
(ミシェル ジャボイエドフ)

生年月日 : 1962年2月8日 (55歳)

国籍 : スイス、フランス

性別 : 男性

称号 : Professor, PhD. Geology



所属機関名 : University of Lausanne (ローザンヌ大学)

部局 : Institute of Earth Sciences (地球科学研究所)

Faculty of Geosciences and Environment (地球・環境学部)

所在地 : Geopolis 3793, Quartier Mouline, 1015 Lausanne, Switzerland
(ローザンヌ市, スイス)

現職名 : Full Professor (正教授)

Vice-Dean for Research, Communication and Quality

of the Faculty of Geosciences and Environment at University of Lausanne

専門分野 : Geology and Physics

(地質学、物理学)

主な学歴 : 大学以降の学位を取得した機関名、学位及び取得年

University of Lausanne, Bachelor + Master (Geology) 1986

University of Lausanne, Bachelor (Physics) 1990

University of Lausanne, PhD (Geology) 1999

主な職歴 機関名・部局：

1996年9月～2005年2月

Sorane SA company dealing with Energy efficient design (Part time job)

2001年6月～2002年10月

Researcher at EPFL Swiss Federal Institute of Technology, Lausanne – ENAC –
Rock mechanics laboratory

2003年2月～現在

President (founder) of Quanterra: dedicated to risk and climate changes

2005年3月～現在

Full Professor at Institute of Earth Sciences at Faculty of Geosciences and
Environment of University of Lausanne

2016年2月～現在

Adjunct professor at University of LAVAL (Québec)

2016年8月～2019年7月

Vice-Dean for Research, Communication and Quality of the Faculty of
Geosciences and Environment at University of Lausanne

Michel Jaboyedoff 教授 防災研究所への貢献の足跡

2006（平成 18）年度

7 月 18 日 防災研究所来訪 共同研究打ち合わせ

2007（平成 19）年度～現在

European Geosciences Union（ヨーロッパ地球科学連合）等における交流

2008（平成 20）年度

防災研究所の共同利用・共同研究拠点認定に際してのサポートレター拝受

2014（平成 26）年度

3 月 19 日～20 日 第 2 回 Global Summit of Research Institutes for Disaster Risk Reduction に参加

2015（平成 27）年度

7 月 13 日～8 月 13 日 長期滞在型共同研究（所内担当者：千木良雅弘教授）のため
招へい外国人学者として防災研究所に滞在

7 月 27 日～29 日 紀伊半島において共同調査を実施

8 月 3 日～5 日 徳島地すべり観測所に滞在

7 月 30 日 防災研究所にて講演

“Using DEM and surface information to characterize landslide failure surface geometry in soft and hard rock”

3 月 12 日（2016 年）GADRI Workshop on "New General of Geohazard Mapping and Strategy for its Social Application" に参加

Michel Jaboyedoff 教授 論文リスト

Books

1998

Rouiller, J.-D., Jaboyedoff, M., Marro, C., Phlipposian, F. & Mamin, M. (1998):
Pentes instables dans le Pennique valaisan. Rapport final PNR31. VDF 239 p.

1995

Jaboyedoff, M., Phlipposian, F., Mamin, M., Marro, C. & Rouiller, J.-D. (1995):
Distributions spatiales des discontinuités dans une falaise. Cahier du PNR31. VDF
90 p. (This book has been wrongly attributed to Rouiller as first authors)

Edited Book

2016

Sudmeier-Rieux, K., Jaboyedoff, M., Fernandez, M., Penna, I. and Gaillard, JC.
(2016): Identifying emerging issues in Disaster Risk Reduction, Migration, Climate
change and Sustainable development. Shaping debates and policies, Springer. 281 p.

2011

Jaboyedoff, M. (editor) (2011): Slope tectonics. Geological Society Special Publication.

Edited issues

Abellan A., Derron M.-H. and Jaboyedoff M. (Guest Editors) (2015): Use of LiDAR and
3D point clouds in Geohazards. Remote Sensing.
http://www.mdpi.com/journal/remotesensing/special_issues/geohazards#editors

Jaboyedoff M., Derron M.-H., Buckley S. and Scaioni M. (Guest Editors) (2015): Vertical
Geology – Lausanne 2014. European Journal of Remote Sensing.
<http://www.aitjournal.com/>

Baron I. and Jaboyedoff M. (editors) (2013): Slope Tectonics: Structures and Slope
Failures. Tectonophysics, Volume 605, Pages 1-168 (11 October 2013).

Catani F., Casagli N., Segoni S., Tofani V., Jaboyedoff M., and Günther A. (eds.) (2013):
New developments and applications in early warning, monitoring and remote
sensing of landslides. NHES - Special Issue.
http://www.nat-hazards-earth-syst-sci.net/special_issue168.html

Nicolet P., Derron M.-H. Jaboyedoff M. (Eds.) (2013, printed). Les dangers naturels en
Suisse - pratiques et développements - Comptes rendus de la deuxième Journée de
Rencontre sur les Dangers Naturels (Université de Lausanne, 18 février 2011).

Société vaudoise des Sciences naturelles - MEMOIRE - VOL. 25.

Derron, M.-H. and Jaboyedoff M (editors) (2010): LIDAR and DEM techniques for landslides monitoring and characterization. NHES special Issue (http://www.nat-hazards-earth-syst-sci.net/special_issue85.html).

Jaboyedoff, M. and Crosta, G.B. and Arattano, M. (editors) (2005): Landslides and debris-flows: analysis, monitoring, modeling and hazard assessment. NHES Special Issue. (http://www.copernicus.org/EGU/nhess/special_issues.html).

Publications in peer reviewed ranked journals

2016

1. Bechet, J., Duc, J., Loye, A., Jaboyedoff, M., Mathys, N., Malet, J.-P., Klotz, S., Le Bouteiller, C., Rudaz, B., and Travelletti, J. (2016): Detection of seasonal cycles of erosion processes in a black marl gully from a time series of high-resolution digital elevation models (DEMs), *Earth Surf. Dynam.* 4, 781-798, doi:10.5194/esurf-4-781-2016.
2. Aye Z.C., Charrière M., Olyazadeh R., Derron M.-H. and Jaboyedoff M. (2016): Evaluation of an open-source collaborative webgis prototype in risk management with students. *Spatial Information Research*, 24, 169–179.
3. Olyazadeh, R.Aye, Z.C., Jaboyedoff, M., Derron, M-H (2016): Prototype of an Open-Source Web-GIS platform for Rapid Disaster Impact Assessment. *Spatial Information Research*, 24, 203–210.
4. Longchamp, C., Abellan, A., Jaboyedoff, M., and Manzella, I. (2016): 3-D models and structural analysis of rock avalanches: the study of the deformation process to better understand the propagation mechanism, *Earth Surf. Dynam.*, 4, 743-755, doi:10.5194/esurf-4-743-2016.
5. Franz, M., Carrea, D., Abellán, A, Derron, M-H, Jaboyedoff, M. (2016). Use of targets to track 3D displacements in highly vegetated areas affected by landslides. *Landslides*, 13: 821–831. DOI 10.1007/s10346-016-0685-7.
6. Leibundgut G, Sudmeier-Rieux K., Devkota S., Jaboyedoff M., Derron M.-H., Penna I. and Nguyen L. (2016): Rural earthen roads impact assessment in Phewa watershed, Western region, Nepal. *Geoenvironmental Disasters*, 3:13.
7. Loye A., Jaboyedoff M., Theule J.I., and Liébault F. (2016): Headwater sediment dynamics in a debris flow catchment constrained by high-resolution topographic surveys. *Earth Surf. Dynam.* 4, 489–513.
8. Pedrazzini A., Humair F., Jaboyedoff M. and Tonini M. (2016): Characterization and spatial distribution of gravitational slope deformation in the Upper Rhone

- catchment (western Swiss Alps). *Landslides*: 13:259-277. DOI 10.1007/s10346-015-0562-9.
9. Michoud C., Baumann V., Lauknes T.R., Penna I, Derron M.-H., Jaboyedoff M. (2016): Large Slope Deformations Detection and Monitoring along Shores of the Potrerillos Dam Reservoir, Argentina, based on a Regional 3 Small-Baseline InSAR Approach. *Landslides*: 13, 451-465. DOI 10.1007/s10346-015-0583-4.
 10. Aristizabal, E.V., Vélez, J.I. Martínez, H.E. and Jaboyedoff, M. (2016): SHIA_LANDSLIDE: a distributed physically based model to forecast the temporal and spatial occurrence of shallow landslides triggered by rainfall in tropical and mountainous basins. *Landslides*: 13, 497-517. DOI 10.1007/s10346-015-0580-7
 11. Cloutier, C., Locat, J., Couture, R., Jaboyedoff, M. (2016) The anatomy of an active slide: the Gascons rockslide, Québec, Canada. *Landslides*, 13, 241-258. doi:10.1007/s10346-015-0566-5
 12. Nicolet, M. Jaboyedoff M., Cloutier C., Crosta G.B. and Lévy S. (2015): Brief Communication: On direct impact probability of landslides on vehicles. *Nat. Hazards Earth Syst. Sci.*, 16, 995–1004.
 13. D'Amato, J., Hantz, D., Guerin, A., Jaboyedoff, M., Baillet, L., and Mariscal, A. (2016): Influence of meteorological factors on rockfall occurrence in a middle mountain limestone cliff, *Nat. Hazards Earth Syst. Sci.* 16, 719-735, doi:10.5194/nhess-16-719-2016.
 14. Abellan, A., Derron, M-H., Jaboyedoff, M., (2016). “Use of 3D Point Clouds in Geohazards” Special Issue: Current Challenges and Future Trends. *Remote Sensing* 8, 130. DOI: 10.3390/rs8020130
 15. Charrière M., Humair F., Froese C., Jaboyedoff M., Pedrazzini A. and Longchamp C. (2016): From the source area to the deposit: collapse, fragmentation and propagation of the Frank Slide. *GSA Bulletin*, 128, 332-351. doi: 10.1130/B31243.1
 16. Aye, Z.C., Jaboyedoff, M., Derron, M-H., van Westen, C.J., Hussin, H.Y., Ciurean, R.L., Frigerio, S., Pasuto, A. (2016). An interactive web-GIS tool for risk analysis: a case study in the Fella River Basin, Italy (accepted). *Nat. Hazards Earth Syst. Sci.*, 16, 85–101. doi:10.5194/nhess-16-85-2016
 17. Carrea D., Abellan A., Humair F., Matasci B., Derron M.-H., Jaboyedoff M. (2016): Correction of terrestrial LiDAR intensity channel using Oren–Nayar reflectance model: An application to lithological differentiation. *ISPRS Journal of Photogrammetry and Remote Sensing*: 113, 17–29.
 18. Aye, Z.C., Sprague, T., Cortes, V.J., Prenger-Berninghoff, K., Jaboyedoff, M. and Derron, M.H. (2016): A collaborative (web-GIS) framework based on empirical

data collected from three case studies in Europe for risk management of hydro-meteorological hazards. *Int. J. of Disaster Risk Reduction*, 15, 10-23, doi:10.1016/j.ijdr.2015.12.001

2015

19. Sudmeier-Rieux, K., Paleo, U.F, Garschagen, M., Estrella, M. Renaud, F.G. and Jaboyedoff, M. (2015). "Opportunities, incentives and challenges to risk sensitive land use planning: Lessons from Nepal, Spain and Vietnam." *Int. J. of Disaster Risk Reduction* 14: 205-224.
20. Kropat G., Bochud F., Jaboyedoff M., Laedermann J.-P., M. Palacios M. and Baechler S. (2015): Improved predictive mapping of indoor radon concentrations using ensemble regression trees based on automatic clustering of geological units. *Journal of Environmental Radioactivity*, 147, 51-62.
21. Jaboyedoff M, Derron M.-H., Buckley S.J. and Scaioni M. (2015): Introduction to Vertical Geology thematic issue. *European Journal of Remote Sensing*: 48, 479 - 487. DOI: 10.5721/EuJRS20154827
22. Matasci B., Carrea C., Abellan A., Derron M.-H., Humair F., Jaboyedoff M., Metzger R. (2015): Geological mapping and fold modeling using Terrestrial Laser Scanning point clouds: application to the Dents-du-Midi limestone massif (Switzerland). *Conf. Vertical Geology - Lausanne 2014. European Journal of Remote Sensing*: 48,569 – 591. DOI: 10.5721/EuJRS20154832
23. Guerin A., Nguyen L., Abellán A., Carrea D., Derron M.-H., Jaboyedoff M. (2015) - Common problems encountered in 3D mapping of geological contacts using high-resolution terrain and image data. *Conf. Vertical Geology - Lausanne 2014. European Journal of Remote Sensing*: 48, 661 – 672. DOI: 10.5721/EuJRS20154836
24. Humair F., Abellan A., Carrea D., Matasci B., Epard J.-L. , Jaboyedoff M. (2015) Geological layers detection and characterisation using high resolution 3D point clouds: example of a box-fold in the Swiss Jura Mountains. *Conf. Vertical Geology - Lausanne 2014. European Journal of Remote Sensing*: 48, 541 – 568. DOI: 10.5721/EuJRS20154831
25. Kromer R, Abellán A., Hutchinson J., Lato M., Edwards T. and Jaboyedoff M. (2015): A 4D filtering and calibration technique for small-scale point cloud change detection with a Terrestrial Laser Scanner. *Remote Sens.* :7(10), 13029-13052; doi:10.3390/rs71013029
26. Böhme M., Oppikofer T., Longva O., M. Jaboyedoff M., Hermanns R.L., Derron M.-H. (2015): Analyses of past and present rock slope instabilities in a fjord valley:

- Implications for hazard estimations. *Geomorphology*: 248, 464–474.
27. Kropat G., Bochud F., Jaboyedoff M., Laedermann J.-P., M. Palacios M. and Baechler S. (2015): Improved predictive mapping of indoor radon concentrations using ensemble regression trees based on automatic clustering of geological units. *Journal of Environmental Radioactivity*: 147, 51-62. [dx.doi.org/10.1016/j.jenvrad.2015.05.006](https://doi.org/10.1016/j.jenvrad.2015.05.006)
 28. Matasci B., Jaboyedoff M., Loye A., Pedrazzini A., Derron M.-H., Pedrozzi G. (2015): Impact of fracturing pattern on rockfall susceptibility and erosion rate in stratified limestone. *Geomorphology*: 241, 83-97.
 29. Aye, Z.C., Jaboyedoff, M., Derron, M.-H., van Westen, C.J (2014). Prototype of a web-based participative decision support platform in natural hazards and risk management. *ISPRS Int. J. Geo-Inf.* 2015, 4, 1201-1224; doi:10.3390/ijgi4031201.
 30. Mavrouli O., Corominas J. & Jaboyedoff M. (2015): Size distribution for potentially unstable rock masses and in-situ rock blocks using LIDAR generated Digital Elevation Models. *Rock Mechanics and Rock Engineering*: 48, 1589-1604. DOI 10.1007/s00603-014-0647-0
 31. Cloutier C., Agliardi F., Crosta G.B., Frattini P., Froese C., Jaboyedoff M., Locat J., Michoud C. and Marui H. (2015). The First International Workshop on Warning criteria for Active Slides: technical issues, problems and solutions for managing early warning systems. *Landslides*: 12, 205-212. DOI 10.1007/s10346-014-0530-9
 32. Theule J. I., Liébault F., Laigle D., Loye A., and Jaboyedoff M. (2015): Channel scour and fill by debris flows and bedload transport. *Geomorphology*: 243, 92–105. doi:10.1016/j.geomorph.2015.05.003
 33. Cloutier C., Locat J., Couture R., Jaboyedoff M. (2015): The anatomy of an active slide: the Gascons rockslide, Québec, Canada. *Landslides*, 12, 205-212. DOI 10.1007/s10346-015-0566-5.
 34. Bechet J., Duc J., Jaboyedoff M., Loye A. and Mathys N. (2015): Erosion processes in black marl soils at the millimetre scale: preliminary insights from an analogous model. *Hydrol. Earth Syst. Sci.*, 19, 1849–1855, doi:10.5194/hess-19-1-2015.
 35. Michoud C., Carrea D., Costa S., Derron M.-H., Jaboyedoff M., Davindson R., Delacourt C., Letortu P. and Maquaire O. (2015): Landslides Detection and Monitoring Capability of Boat-based Mobile Laser Scanning along Dieppe Coastal Cliffs, Normandy. *Landslides*, 12, 403-418. DOI 10.1007/s10346-014-0542-5
 36. Kropat G., Bochud F., Jaboyedoff M., Laedermann J.-P., Murith C., Palacios M., Baechler S. (2015) Predictive analysis and mapping of indoor radon concentrations in a complex environment using kernel estimation: an application

to Switzerland. *Science of the Total Environment*, 505: 137–148.

2014

37. Royán M.-J., Abellán A., Jaboyedoff M., Vilaplana J.-M. and Calvet J. (2014): Spatio-temporal analysis of rockfall pre-failure deformation using terrestrial lidar. *Landslides*: 11, 697-709.
38. Tonini M., Pedrazzini A., Penna I., Jaboyedoff M. (2014): Spatial pattern of landslides in Swiss Rhone Valley. *Natural Hazards*. 73(1), 97-110.
39. Riquelme A. J., Abellán A., Tomás R. and Jaboyedoff M. (2014): A new approach for semi-automatic rock mass joints recognition from 3D point clouds. *Computers & Geosciences*: 68, 38–52.
40. Michelletti N. Foresti L., Robert S., Leuenberger M., Pedrazzini A., Jaboyedoff M. and Kanevski M. (2014): A study of feature selection methods of machine learning for landslide susceptibility mapping. *Mathematical Geosciences*: 46, 33-57.
41. Abellan A., Oppikofer T., Jaboyedoff M., Rosser N.J., Lim M., Lato M. (2014): Review of terrestrial laser scanning of rock slopes. *Earth Surface Processes and Landforms*: 39, 80-97.
42. Kropat G., Bochud F., Jaboyedoff M., Laedermann J.-P., Murith C., Palacios M. and Baechler S. (2014): Major influencing factors of indoor radon concentrations in Switzerland. *J. Environmental Radioactivity* 129: 7-22.

2013

43. Voumard J., Caspar O., Derron M.-H., and Jaboyedoff M. (2013): Dynamic risk simulation to assess natural hazards risk along roads. *Nat. Hazards Earth Syst. Sci.*, 13, 2763-2777.
44. Nicolet P., Foresti L., Caspar O., and Jaboyedoff M. (2013): Shallow landslides stochastic risk modelling based on the precipitation event of August 2005 in Switzerland: results and implications. *Nat. Hazards Earth Syst. Sci.*, 13, 3169-3184.
45. Michoud C., Bazin S., Blikra L.H., Derron M.-H. and Jaboyedoff M. (2013): Experiences from site-specific landslide early warning systems. *Nat. Hazards Earth Syst. Sci.*, 13, 2659-2673.
46. Jaboyedoff M., Penna I., Pedrazzini A., Baroň I.; Crosta G.B. (2013): An introductory review on gravitational-deformation induced structures, fabrics and modeling. *Tectonophysics*, 605, 1-12.
47. Humair F. Pedrazzini A. Epard E., Froese C. and Jaboyedoff M. (2013): Structural characterization of Turtle Mountain anticline (Alberta, Canada) and impact on rock slope failure. *Tectonophysics*, 605, 133-148.

48. Pedrazzini A., Jaboyedoff M., Loye A. and Derron M.-H. (2013): From deep seated slope deformation to rock avalanche: Destabilization and transportation models of the Sierre landslide (Switzerland). *Tectonophysics*, 605, 149-168.
49. Sudmeier-Rieux, K, Jaquet, S, Jaboyedoff, M. (2013): Operationalizing 'resilience' for disaster risk reduction in mountainous Nepal. *Disaster Prevention and Management*, 22, 366 – 377.
50. Horton P., Jaboyedoff M., Rudaz B. and Zimmermann M. (2013): Flow-R, a model for susceptibility mapping of debris flows and other gravitational hazards at a regional scale. *Nat. Hazards Earth Syst. Sci.*, 13, 869-885.
51. Travelletti J., Malet J.-P., Samyn K., Grandjean G. and Jaboyedoff M. (2013): Control of landslide retrogression by discontinuities: evidences by the integration of airborne- and ground-based geophysical information. *Landslides*, 10 (1), 37-54.
52. Penna I.M., Derron M.-H., Jaboyedoff M., Hungr O. (2013): Hazard assessment for natural dam formation and failure along the Santa Cruz river (southern San Juan province, Argentina). *Geomorphology*, 186, 28–38.
53. Böhme M., Hermanns R.L, Oppikofer T., Fischer L., Eiken T., Bunkholt H.S.S., Pedrazzini A., Derron M.-H., Jaboyedoff M., Blikra L.H., Nilsen B. (2013): Analyzing complex rock slope deformation at Stampa, western Norway, by integrating geomorphology, kinematics and numerical modeling. *Eng. Geol.*, 154, 116–130.

2012

54. Loye A., Pedrazzini, Theules J., Jaboyedoff M., Liébault F., & Metzger R. (2012): Influence of bedrock structures on the spatial pattern of erosional landforms in small alpine catchments. *ESPL*, 37, 1407-1423.
55. Theule J. I., Liébault F., Loye A., Laigle D., and Jaboyedoff M. (2012): Sediment budget monitoring of debris-flow and bedload transport in the Manival Torrent, SE France. *Nat. Hazards Earth Syst. Sci.*, 12, 731–749.
56. Horton P., Jaboyedoff M., Metzger R., Obled C. and Marty R. (2012): Spatial relationship between the atmospheric circulation and the precipitation measured in the western Swiss Alps by means of the analogue method. *Nat. Hazards Earth Syst. Sci.*, 12, 777–784.
57. Pedrazzini A., Froese C.R., Jaboyedoff M., Hungr O., Humair F. (2012): Combining digital elevation model analysis and run-out modeling to characterize hazard posed by a potentially unstable rock slope at Turtle Mountain, Alberta, Canada. *Engineering Geology* 128 , 76–94.
58. Mainsant G., Larose E., Brönnimann C., Jongmans D., Michoud C., Jaboyedoff M.

- (2012): Ambient seismic noise monitoring of a clay landslide: toward failure prediction. *JGR-ES*, 117, F01030, 12 PP. doi:10.1029/2011JF002159
59. Bois T., Bouissou S. and Jaboyedoff M. (2012) : Influence of structural heterogeneities and of large scale topography on imbricate gravitational rock slope failures: New insights from 3-D physical modelling and geomorphological analysis. *Tectonophysics*, v 526–529, p. 147-156, doi: 10.1016/j.tecto.2011.08.001.
60. Brideau M.-A., Sturzenegger M., Stead D., Jaboyedoff M., Lawrence M., Roberts N., Ward B., Millard T., Clague, J. (2012). Stability analysis of the 2007 Chehalis lake landslide using discontinuity data obtained from long-range photogrammetry and airborne-lidar digital elevation models. *Landslides*, 9:75–91.
61. Michoud C., Derron M.-H., Horton P., Jaboyedoff M., Baillifard F.-J., Loye A., Nicolet P., Pedrazzini A., Queyrel A. (2012): Rockfall hazard and risk assessments along roads at a regional scale: example in Swiss Alps. *Nat. Hazards Earth Syst. Sci.*, 12, 615-629.
62. Lévy S., Jaboyedoff M., Locat J., Demers D. (2012) Erosion and channel change as factors of landslides and valley formation in Champlain Sea Clays: The Chacoura River, Quebec, Canada.. *Geomorphology*. 145-146, 12–18. doi:10.1016/j.geomorph.2011.09.014.
63. Sudmeier-Rieux K., Jaquet S., Derron M.-H., Jaboyedoff M., Devkota S. (2012): A Case Study of Landslides and Coping Strategies in Two Villages of Central-Eastern Nepal. *Applied Geography*. 32, 680-690.
64. Jaboyedoff, M., Oppikofer, T., Abellán, A., Derron, M.-H., Loye, A., Metzger, R., Pedrazzini, A. (2012): Use of LIDAR in landslide investigations: a review. *Natural Hazards*, 61:5–28, DOI 10.1007/s11069-010-9634-2.

2011

65. Volkwein A., Schellenberg K., Labiouse V., Agliardi F., Berger F., Bourrier F., Dorren L. K. A., Gerber W., and Jaboyedoff M. (2011): Rockfall characterisation and structural protection – a review *Nat. Hazards Earth Syst. Sci.*, 11, 2617-2651, 2011. doi:10.5194/nhess-11-2617-2011.
66. Brideau, M.-A., Pedrazzini, A., Stead, D., Froese, C., Jaboyedoff, M. and van Zeyl, D. (2011): Three-dimensional slope stability analysis of South Peak, Crownsnest Pass, Alberta, Canada. *Landslides*, 8(2): 139-158.
67. Sudmeier-Rieux K., Jaboyedoff M., Breguet A., and Dubois J. (2011): The 2005 Pakistan Earthquake Revisited: Methods for Integrated Landslide Assessment. *Mountain Research and Development* 31:112-121. doi: 10.1659/MRD-JOURNAL-D-10-00110.1

68. Oppikofer T., Jaboyedoff M., Pedrazzini A., Derron M.-H. and Blikra L. (2011) Detailed DEM analysis of a rockslide scar to characterize the basal sliding surface of active rockslides. *JGR Surface*. doi:10.1029/2010JF001807.
69. Jaboyedoff, M. and Labiouse V. (2011) Technical Note: Preliminary estimation of rockfall runout zones *Nat. Hazards Earth Syst. Sci.*, 11, 819-828.
70. Kappes, M.; Malet J.-P., Remaître A., Horton P., Jaboyedoff M. (2011) Assessment of debris flow susceptibility at medium-scale in the Ubaye valley, France. *Nat. Hazards Earth Syst. Sci.*, 11, 627–641.

2010

71. Blahut J., Sterlacchini S., Horton P., and Jaboyedoff M. (2010): Debris flow hazard modelling on medium scale: Valtellina di Tirano, Italy. *NHESS*, 10, 2379–2390.
72. Wick E., Baumann V., and Jaboyedoff M. (2010): Brief Communication: Report on the impact of the 27 February 2010 earthquake (Chile, Mw 8.8) on rockfalls in the Las Cuevas valley, Argentina. *NHESS*. 1989–1993.
73. Derron M.-H. and Jaboyedoff M. (2010): LIDAR and DEM techniques for landslides monitoring and characterization. *Nat. Hazards Earth Syst. Sci.*, 10, 1877-1879.
74. Oppikofer T., Jaboyedoff M., Demers D., Locat J., Locat A., Locat P. Robitaille D., and Turmel D. 2010. Reply to Discussion: Use of terrestrial laser scanning for the characterization of retrogressive landslides in sensitive clay and rotational landslides in river banks. *CGJ* 46(12) 1379-1390.
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