

Christelle Hély

Production scientifique

Nov 2105 : h index : 21 (google scholar), 18 (ISI Web of Science)

1. International peer-reviewed papers

Students supervised (**official supervisor** or **advisor**): Master, Ph.D., and Post-doc.

56. Blarquez O, Ali AA, Girardin MP, Grondin P, Fréchette B, Bergeron Y, **Hély C (2015)** Regional paleofire regimes affected by non-uniform climate, vegetation and human drivers. **Scientific Reports**.

55. Coudel M, Aubert P-M, Aderghal M, **Hély C (in press)** Pastoral and woodcutting activities drive Cedrus atlantica Mediterranean forest structure in the Moroccan Middle Atlas. **Ecological Applications**.

54. Ledru MP, Montade V, Blanchard G, **Hély C (in press)** Long-term spatial changes in the distribution of the Brazilian Atlantic forest. **Biotropica**.

53. Pasturel M, Alexandre A, Novello A, Dièye A, Wélé A, Paradis L, **Hély C (in press)** Climatic Distribution of Herbaceous Biomes in Africa: Insights from the Classification of Grass Morphological Traits. **Biotropica**.

52. Gomez C, Mangeas M, Ibanez T, Munzinger J, Dumas P, André J, Despinoy M, **Hély C (2015)** Wildfire risk for main vegetation units in a biodiversity hotspot: modeling approach in New Caledonia, South Pacific. **Ecology and Evolution** 5 (2): 377-390.

51. Quarmim S, Ali AA, Asselin H, **Hély C**, Bergeron Y, (2015). Evaluating the persistence of post-fire residual patches in the eastern Canadian boreal mixedwood forest. **BOREAS**, 44, 230-239.

50. Curt T, Borgniet L, Ibanez T, Moron, V., **Hély C**, (2014). A biodiversity hotspot on fire: what drives ignitions and fire patterns in New Caledonia? **Forest Ecology & Management**, 337, 48-60.

49. Van Leeuwen TT, Van der Werf GR, Hoffmann AA, Detmers RG, Rücker G, French NHF, Archibald S, Carvalho Jr. JA, Cook GD, de Groot WJ, **Hély C**, Kasischke ES, Kloster S, McCarty JL, Pettinari ML, Savadogo P, Alvarado EC, Boschetti L, Manuri S, Meyer CP, Siegert F, Trollope LA, Trollope WSW (2014) Biomass burning fuel consumption rates: a field measurement database. **Biogeosciences** 11, 7305-7329.

48. **Hély C**, Lézine A-M, APD contributors (2014). Holocene changes in African vegetation: tradeoff between climate and water availability. **Climate of the Past**, 10: 681-686.

47. Oris F, Asselin H, Finsinger W, **Hély C**, Blarquez O, Ferland M.-E, Bergeron Y, Ali A.A. (2014). Long-term fire history in northern Quebec: implications for the location of the northern limit of commercial forests. **Journal of Applied Ecology** 51:675-683.

46. Quarmim S, Asselin H, Bergeron Y, Ali AA, **Hély C**, (2014). Fire refuges in the eastern Canadian boreal mixedwood forest. **Forest Ecology and Management**, 324:1-7

45. Quarmim S, Asselin H, **Hély C**, Bergeron Y, Ali AA, (2014). Long-term dynamics of fire refuges in boreal mixedwood forests. **Journal of Quaternary Science**, 9999:1-7

44. Berman M, Andersen A, **Hély C**, Gaucherel C (2013). An overview of New Caledonian ant communities in relation to habitat and invasion by exotic species. **PloS One**, 8 (6) e67245.

43. Girardin MP, Ali AA, Carcaillet C, Blarquez O, **Hély C**, Terrier A, Genries A, Bergeron Y (2013). Vegetation limits the impact of a warm climate on boreal wildfires. *New Phytologist*, 199 (4): 1001-1011.
42. **Hély C**, Lézine A-M, APD contributors (2013 online). Holocene changes in African vegetation: tradeoff between climate and water availability. *Climate of the Past Discussion*.
41. [Ibanez, T.](#), Munzinger, J., Gaucherel, C., Curt, T., **Hély, C.** (2013). Inferring savanna-rainforest boundary dynamics from vegetation structure and composition: A case study in New Caledonia. *Australian Journal of Botany*, 10.1071/BT12255.
40. [Ibanez, T.](#), Curt T, Gaucherel C, and **Hély C** (2013), Low tolerance of New Caledonian secondary forest species to savanna fires, *Journal of Vegetation Science*. 24 (1): 177-188
39. [Sow M](#), Mbow C, **Hély C**, Fensholt R, Sambou B, (2013). Estimation of herbaceous fuel moisture content using vegetation indices and land surface temperature from MODIS data. *Remote Sensing of Environment*, 10.3390/rs5062617.
38. Ali AA, Blarquez O, Girardin MP, **Hély C**, [Tinguaut F.](#), El Guellab A, Valsecchi V, Terrier A, Bremond L, Genries A, Gauthier S, Bergeron Y (2012) Control of the multimillennial wildfire size in boreal North America by spring climatic conditions. *Proceedings of the National Academy of Sciences*, 109 (51): 20966–20970.
37. [Garreta V](#), Guiot J, Mortier F, Chadoeuf J, **Hély C.**, (2012). Pollen-based climate reconstruction: calibration of the vegetation-pollen processes. *Ecological Modelling*, 235-236:81-94.
36. Genries A, Finsinger W, Asnong H, Bergeron Y, Carcaillet C, Garneau M, **Hély C**, Ali AA (2012) Local versus regional processes: can soil characteristics overcome climate and fire regimes by modifying vegetation trajectories? *Journal of Quaternary Science* 27, 745-756.
35. Girardin MP, Ali AA, Carcaillet C, Gauthier S, **Hély C**, Le Goff H, Terrier A, Bergeron Y (2012) Fire in managed forests of eastern Canada: Risks and options. *Forest Ecology and Management* 294 : 238-249.
34. [Ibanez, T.](#), **Hély C**, and Gaucherel, C. (2012), Sharp transition of microclimatic conditions between rainforest and savanna in New Caledonia: insights for rainforest edge vulnerability to fire, *Austral Ecology*. DOI: 10.1111/aec.12015.
33. [Ibanez T](#), Borgniet L, Mangeas M, Gaucherel C, **Hély C**, (2012) Rainforest-savannah dynamics under high anthropogenic fire pressure in the New Caledonian biodiversity hotspot. *Austral Ecology*, doi:10.1111/j.1442-9993.2012.02369.x..
32. [Sow M](#), **Hély C**, Mbow C, Sambou B (2012) Fuel and fire behavior analysis for early-season prescribed fire planning in sudanian and sahelian savannas. *Journal of Arid Environments* 89, 84-93.
31. [Barbero R](#), Moron V, Mangeas M, Despinoy M, and **Hély C**, (2011), Relationships between MODIS and ATSR fires and atmospheric variability in New Caledonia (SW Pacific), *Journal of Geophysical Research* 116 (D21110): 16p.
30. Lézine A-M, **Hély C.**, Grenier C, Braconnot P, Krinner G (2011) Sahara and Sahel vulnerability to climate changes, lessons from Holocene hydrological data. *Quaternary Science Reviews* 30 (21-22): 3001-3012.
29. Carcaillet C, Bergeron Y, Ali AA, Gauthier S, Girardin MP, **Hély C** (2010) Holocene fires in eastern Canada: Towards a forest management perspective in light of future global changes. *PAGES News* 18, 68-70.
28. Girardin MP, Ali AA, **Hély C** (2010) Wildfires in boreal ecosystems: past, present, and some emerging trends. *International Journal of Wildland Fire* 19, 991-995.
27. **Hély C**, Fortin MJ, Anderson KH, Bergeron Y (2010) Landscape composition influences

local pattern of fire size in the eastern Canadian boreal forest: role of weather and landscape mosaic on fire size distribution in mixedwood boreal forest using the Prescribed Fire Analysis System. *International Journal of Wildland Fire* 19, 1099-1109.

26. Hély C, Girardin MP, Ali AA, Carcaillet C, Brewer S, Bergeron Y (2010) Eastern boreal North American wildfire risk of the past 7000 years: a model-data comparison. *Geophysical Research Letters* 37, doi:10.1029/2010GL043706.

25. Garreta V, Miller P, Guiot J, Hély C, Brewer S, Sykes MT, Litt T (2009) A method for climate and vegetation reconstruction through the inversion of a dynamic vegetation model. *Climate Dynamics*, 35:371–389.

24. Gaucherel C, Balasubramanian M, Karunakaran PV, Ramesh BR, Muthusankar G, Hély C, Couteron P (2010) At which scales does landscape structure influence the spatial distribution of elephants in the Western Ghats (India)? *Journal of Zoology*, doi :10.1111/j.1469-7998.2009.00652.x.

23. Girardin MP, Ali AA, Carcaillet C, Drobyshev I, Mudelsee M, Hély C, Bergeron Y (2009) Heterogeneous response of circumboreal wildfire risk to climate change since the early 1900s. *Global Change Biology*, 15 (11): 2751-2769.

22. Hély C, Braconnot P, Watrin J, Zheng W (2009) Climate and vegetation : Simulating the African Humid Period. *Comptes Rendus Géoscience*, 341 : 671-688.

21. Lézine A-M, Watrin J, Vincens A, Hély C, and contributors (2009) Are modern pollen data representative of West African ecosystems? *Review of Palaeobotany and Palynology* 10.1016/j.revpalbo.2009.02.001.

20. Watrin J, Lézine A-M, Hély C, and African Pollen Database contributors (2009) Plant migration and ecosystems at the time of the "green Sahara". *Comptes Rendus Géoscience*, 341 : 656-670.

19. Bremond L, Alexandre A, Wooller MJ, Hély C, Schäfer PA, Majule A, Guiot J (2008) Phytoliths as proxy of grass subfamilies dominance on tropical mountains from three sites in East Africa: Mt Kenya (Kenya), Mt Rungwe and Lake Masoko (Tanzania). *Global and Planetary Change* 61, 209-224.

18. Gaucherel C, Alleaume S, Hély C (2008) The Comparison Map Profile method: a statistical tool for spatially explicit and multiscale comparison of quantitative and qualitative images. *IEEE Transaction on Geoscience and Remote Sensing* 46, 2708-2719.

17. Guiot J, Hély-Alleaume C, Wu H, Gaucherel C (2008) Interactions between vegetation and climate variability: what are the lessons of models and pleovegetation data? *Comptes Rendus Géoscience* 340, 595-601.

16. Ramstein G, Kageyama M, Guiot J, Wu H, Hély C, Krinner G, Brewer S (2007) How cold was Europe at the Last Glacial Maximum? A synthesis of the progress achieved since the first PMIP model-data comparison. *Climate of the Past* 3, 331-339.

15. Brewer S, Hély C, Cheddadi R, De Beaulieu J-L, Laurent J-M, Le Cluziat J (2006) Postglacial history of Atlantic oakwoods: context, dynamics, and controlling factors. *Botanical Journal of Scotland* 57, 41-57.

14. Bremond L, Alexandre A, Hély C, Guiot J (2005) A phytolith index as a proxy of tree cover density in tropical areas: Calibration with Leaf Area Index along a forest-savanna transect in southeastern Cameroon. *Global and Planetary Change* 45, 277-293.

13. Hély C, Caylor K, Dowty P, Alleaume S, Swap RJ, Shugart HH, Justice C (2007) A temporally explicit Production Efficiency Model for fuel load allocation in southern Africa. *Ecosystems* 10, 1116-1132.

12. Hély C, Bremond L, Alleaume S, Smith B, Sykes MT, Guiot J (2006) Sensitivity of African biomes to changes in the precipitation regime. *Global Ecology & Biogeography* 15, 258-270.

11. Keene WC, Lobert JL, Crutzen PJ, Maben PJ, Scharffe JR, Landmann T, **Hély C**, Brain C (2006) Emissions of major gaseous and particulate species during experimental burns of Southern African biomass. *Journal of Geophysical Research* 111, D04301
10. Alleaume S, **Hély C**, Le Roux J, Korontzi S, Swap RJ, Shugart HH, Justice CO (2005) Using MODIS to evaluate heterogeneity of biomass burning in southern African savannahs: a case study in Etosha. *International Journal of Remote Sensing* 26, 4219-4237.
09. **Hély C**, Alleaume S, Swap RJ, Shugart HH, Justice CO (2003a) SAFARI-2000 characterization of fuels, fire behavior, combustion completeness, and emissions from experimental burns in infertile grass savannas in western Zambia. *Journal of Arid Environments* 54, 381-394.
08. **Hély C**, Caylor K, Alleaume S, Swap RJ, Shugart HH (2003b) Release of gaseous and particulate carbonaceous compounds from biomass burning during the SAFARI 2000 dry season field campaign. *Journal of Geophysical Research* 108, 8470.
07. **Hély C**, Dowty PR, Alleaume S, Caylor K, Korontzi S, Swap RJ, Shugart HH, Justice CO (2003c) Regional fuel load for two climatically contrasting years in southern Africa. *Journal of Geophysical Research* 108, 8475.
06. Swap RJ, Annegarn HJ, Suttles JT, Haywood J, Helmlinger MC, **Hély C**, Hobbs PV, Holben BN, Ji J, King MD, Landmann T, Maenhaut W, Otter L, Pak B, Piketh SJ, Platnick S, Privette J, Roy D, Thompson AM, Ward D, Yokelson R (2002) The Southern African Regional Science Initiative (SAFARI 2000): overview of the dry season field campaign. *South African Journal of Science* 98, 125-130.
05. **Hély C**, Flannigan MD, Bergeron Y (2003d) Modeling tree mortality following wildfire in the southeastern Canadian mixed-wood boreal forest. *Forest Science* 49, 566-576.
04. **Hély C**, Flannigan MD, Bergeron Y, McRae D (2001) Role of vegetation and weather on fire behavior in the Canadian mixedwood boreal forest using two fire behavior prediction systems. *Canadian Journal of Forest Research* 31, 430-441.
03. **Hély C**, Bergeron Y, Flannigan MD (2000a) Coarse woody debris in the southeastern Canadian boreal forest: composition and load variations in relation to stand replacement. *Canadian Journal of Forest Research* 30, 674-687.
02. **Hély C**, Bergeron Y, Flannigan MD (2000b) Effects of stand composition on fire hazard in mixed-wood Canadian boreal forest. *Journal of Vegetation Science* 11, 813-824.
01. **Hély C**, Forgeard F (1998) Hétérogénéité d'une lande haute à *Ulex europaeus* en relation avec la propagation du feu (Bretagne, France). *Canadian Journal of Botany* 76, 804-817.

2. Invited book chapters

03. Waito J, Girardin MP, Tardif JC, **Hély C**, Blarquez O, Ali AA (October 2015) Fire and climate: using the past to predict the future. In 'Routledge Handbook of Forest Ecology'. (Eds KSH Peh, RT Corlett and Y Bergeron) pp. 656)
02. **Hély C**, Alleaume S (2006) Fire regimes in dryland landscapes. In 'Dryland Ecohydrology'. (Eds P D'Odorico and A Porporato) pp. 283-301. (Kluwer Academic Publishers: The Netherlands).
01. Shugart HH, Caylor K, **Hély C**, Swap RJ, Dowty P (2006) Dynamic change in the woodland and savannah ecosystems of sub-tropical Africa. In 'Emerging threats to tropical forests'. (Eds W Laurance and C Peres) pp. 53-66. (University of Chicago Press: Chicago).

3. Peer-reviewed conference proceedings

Talks (T), Poster (P) or Invited Lecture (IL)

29. [Coudel M.](#), Aubert, P-M., Aderghal M. and **Hély C. (2015)**. Pastoral and woodcutting activities in the Moroccan Middle Atlas *Cedrus Atlantica* forests: impacts on ecosystem structures and modes of social regulations. 27th International Congress for Conservation Biology, 4th European Congress for Conservation Biology, August 2-6 2015, Montpellier, France (P).
28. **Hély C**, [Chaste E.](#), Ali A.A., Girardin M.P., Blarquez O., Bergeron Y. (2015). Fire models serving paleoecology. XIX INQUA 2015, July 26 - August 2, Nagoya, Japan # H02-14 (IL).
27. **Hély C**, [Chaste E.](#), Braconnot P., Gueye A.K., Lézine A-M. (2015). Evaluation of the West African climate in IPSLCM5A transient simulation over the last 6000 years: contribution of LPJ-GUESS and pollen to the termination chronology of the African humid period. XIX INQUA 2015, July 26 - August 2, Nagoya, Japan # P02-P11 (P).
26. [Lahaye S.](#), Curt T, Paradis L., **Hély C. (2014)**. Classification of large wildfires in South-Eastern France to adapt suppression strategies . VII International Conference on Forest Fire Research, Coïmbra, Portugal, November 17-21 (T).
25. [Remy C](#), Andrieux B, **Hély C**, Bergeron Y, Girardin MP, Grondin P, Lavoie M, Ali AA (2014) Fire history from lacustrine charcoal analyses : charcoal area or charcoal count ? In 'Wildland Fire Canada 2014'. Halifax (T)
24. [Sow M](#), **Hély C**, Mbow C, Sambou B, Diaw AT, Ndione JA (2014) Modélisation de la probabilité d'ignition et de la vitesse de propagation des feux de brousse au Sénégal, à partir des données climatiques et de biomasse. In 'XXVII^e Colloque de l'Association Internationale de Climatologie'. pp. 466-471. Dijon, France (P)
23. [Pasturel M](#), Alexandre A, Novello A, Dièye A.M., Wélé A, Paradis L, **Hély C (2014)** Climatic Distribution of Herbaceous Biomes in Africa: Insights from the Classification of Grass Morphological Traits. EGU General Assembly, Vienna, Vol. 16, EGU2014-3455 (T).
22. Gueye AK, Janicot S, Braconnot P, **Hély C**, Lézine AM, 2013. Analysis of African climate variability at pre-industrial, 4kyr and 6kyr BP simulations by Self-Organizing Maps. EGU General Assembly, Vienna, pp. EGU2013-3086 (P).
21. [Ibanez T](#), Munzinger J, Géraux H, Gauchere C, **Hély C. 2011**. Rainforest-savanna dynamics and fire in New Caledonia : Implications for rainforest restoration and conservation. The Forests 2011 International Conference. Leuven, Belgium, 23-24 novembre 2011 (T).
20. **Hély C**, [Ibanez T.](#), [Tinguaut F.](#), and Curt, T. 2010. Fire, savannas, and forest/savanna dynamics in New Caledonia. The 2010 International meeting of the Association for Tropical Biology and Conservation, Bali, Indonesia, 19-23 juillet 2010. (IL)
19. **Hély C.**, M.-J. Fortin, K. Anderson and Y. Bergeron 2009. The role of weather and forest mosaic in modeling fire size distribution with PFAS. March 14-17, conférence internationale « Wildfires in Boreal Ecosystems : Past, Present, and Future Fire Regimes. The lake Duparquet Research and Teaching Forest, Lac Hébecourt, Québec, Canada (T)
18. Bergonzini L, Buchet G, Bonnefille R, Chalié F, Gasse F, Guiot J, **Hély C**, Paillès C, Vallet-Coulomb C, Vincens A, and Williamson D 2008. The last millennium in Africa: a review of the main environmental changes and possible causal mechanisms. EGS Geophysical Research Abstracts, Vol. 10, EGU2008-A-11146 (T)
17. [Garreta V](#), Miller P, Guiot J and **Hély C 2008**. Temporal model for climate reconstruction using pollen data by dynamic vegetation model inversion. Joint meeting of the Can. Stat. Soc. and the Soc. Franc. de Stat., Ottawa, Canada, 25-29 May (T)

16. [Garreta V](#), Miller P, Guiot J, and **Hély C** 2008 Climate and vegetation dynamics reconstructed by inverse vegetation modeling. EGU, Vienne, Austria, 13-18 April (T)
15. **Hély C**, Braconnot P., [Watrin J](#). and Zheng W. 2008: Climate and vegetation models: How do they perform in simulating the end of the African Humid Period ? 8-9 septembre 2008, colloque « Déserts » de l'Académie des Sciences de Paris, Présentation orale. (T)
14. **Hély C**, Brewer, S. and Guiot, J. 2008. Mid-Holocene vegetation in central Africa: Reconstruction from proxies and models, 8-9 septembre 2008, colloque « Déserts » de l'Académie des Sciences de Paris. (P)
13. **Hély C**, Brewer, S. and Guiot, J. 2005. Mid-Holocene vegetation in central Africa: Reconstruction from proxies and models, EGU, Vienne, Autriche, 25-29 avril 2005. EGU05-A-06383. (P).
12. **Hély C**, Brewer, S. and Guiot, J. 2005. 6K BP vegetation modeling and pollen comparison. SASQUA, Bloemfontein, Afrique du Sud, 30 mars-3 avril 2005. (T)
11. [Bremond L](#), Alexandre A, **Hély C**, Vincens A, Williamson D, Guiot J 2004. Calibration of transfer functions between phytolith, vegetation and climate for integration of grassland dynamics in vegetation models. Application to a 50,000 yr crater lake core in Tanzania. In 'American Geophysical Union'. San Francisco pp. PP43A-0589 (P).
10. **Hély C**, Caylor, K.K., Alleaume, S., Swap, R.J. et H.H. Shugart. 2003. "Estimating emissions of carbonaceous compounds from southern African fires: a re-analysis of modelling techniques". AGU – EGU Joint Assembly, Nice France, April 2003. Geophysical Research Abstracts, Vol. 5, 09028. (T)
09. Shugart HH, Caylor KK, **Hély C**, Swap RJ et Dowty PD. 2003. "Dynamic change in the woodland and savanna ecosystems of sub-tropical Africa", Association for Tropical Biology and Conservation Annual Meeting, University of Aberdeen, July. (T)
08. **Hély C**, Dowty, PD, Alleaume, S, Caylor, KK, and Shugart, HH. 2001. Regional fuel load modeled for two contrasting years in central and southern Africa. Eos. Trans. AGU, 82(47), Fall Meet. Suppl., Abstract A51A-0038. (P)
07. **Hély C**, Shugart HH, Justice CO, Swap RJ, Dowty PD, Alleaume S, Korontzi S, and Roy D. 2001. Caractérisation des combustibles et de l'efficacité de la combustion dans le cadre d'un modèle régional des émissions de gaz à effet de serre en Afrique australe. Conference sur les Incendies et processus biologiques, Octobre, Banyuls, France. (T)
06. **Hély C**, Flannigan MD et Y Bergeron. 1999. Importance relative de la végétation et du climat dans le comportement des incendies en forêt boréale mixte canadienne. Nouveaux résultats. Association Canadienne Francophone pour l'Avancement des Sciences (ACFAS), Mai, Ottawa (Ontario), Canada. (T)
05. **Hély C**, Flannigan MD, and Bergeron Y. 1999. Modeling tree mortality following wildfire in the southeastern Canadian mixedwood boreal forest. Ecological Society of America (ESA), Août, Spokane (Etat de Washington), USA. (T)
04. **Hély C**, Flannigan MD, and Bergeron Y. 1998. Composition and load of coarse woody debris in the boreal forest in relation to succession. International Association of Vegetation Science (IAVS), Juillet-Août, Uppsala, Suède. (T)
03. **Hély C**, Flannigan MD, and Bergeron Y. 1998. Relative importance of vegetation and climate on fire behavior in the southeastern Canadian boreal forest. International Congress of Ecology (INTECOL), Juillet, Florence, Italie. (T)
02. **Hély C** et Forgeard F. 1995. Analysis of Ulex europaeus heathland heterogeneity in Brittany in relation to fire propagation. 5th European Heathland Workshop, Septembre, Santiago de Compostela, Espagne. (P)
01. **Hély C** et Forgeard F. 1994. Experimental study on the propagation of burnings within two

types of Atlantic heathland litters (Brittany, France). 2nd International Conference on Forest Fire Research, Novembre, Coïmbra, Portugal. (P)

4. Workshop and Symposia talks and posters

14. Gaillard, M.J., [Lebamba J](#), Sugita, S., Marquer, L., Mazier, F., **Hély, C.**, Assi-Kaudjhis, C., Buchet, G., Vincens, A., Lézine, A.M., **2013**. Pollen-based LRA estimates of regional and local vegetation abundance over the Holocene in savannahs and mountain forests of Cameroon. La forêt d'Afrique centrale: Biodiversité, Présente et Passée. Quels enjeux pour le futur? ANR, IRD, APD, Yaoundé, Cameroon, pp. 15-16. (T)

13. **Hély, C.**, Fèvre, J., Lézine, A.M., **2013**. Holocene climate changes at Bambili : insights from the vegetation fossil records. La forêt d'Afrique centrale: Biodiversité, Présente et Passée. Quels enjeux pour le futur? ANR, IRD, APD, Yaoundé, Cameroon, p. 19 (T).

12. [Lebamba J](#), Lézine AM, **Hély C**, Vincens A, Buchet G, Mazier F, Gaillard MJ, Sugita S **2012**. Pollen productivity estimates and first tentative quantitative reconstructions of plant cover in Cameroon. "The impact of a major environmental crisis on species, populations and communities: the fragmentation of African forests at the end of the Holocene", Paris, France, 1-2 mars 2012 (T)

11. **Hély C.** **2011**. "Introduction to Dynamic Global Vegetation Models. IGBP-PAGES-PHAROS workshop " Land-cover reconstructions in the monsoon affected Tropical world - pollen modeling approach and data synthesis". Organized by MJ. Gaillard ". Pondicherry, India, 27-29 January. (IL)

10. **Hély C.** **2011**. "Fuels and fires in boreal and tropical ecosystems : from field to models". GOF-C-GOLD meeting organized by G. van der Werf (Netherlands) on "Factors driving variability in fuel consumption (fuel loads, combustion completeness) in the major biomes impacted by fires" Rustenburg, South Africa, 13-15 May. (IL)

09. **Hély C.**, Lézine A-M. and [Watrin J.](#) **2010**. La vulnérabilité du Sahara et du Sahel au changement climatique holocène : paléo-végétation versus paléo- hydrologie. Colloque de restitution du projet ANR VMC2006 SAHELP, Montpellier, 10-11 juin 2010 (T)

08. **Hély C.**, Brewer S. and Guiot J. **2004**. 6K BP vegetation modeling and pollen comparison. PAGES MOTIF workshop, Exceter, UK, 4-8 octobre 2004 (T)

07. **Hély C.**, [Bremond L](#), Smith B, Sykes M, and Guiot J. **2003**. Relationships between climate and African ecosystems using vegetation model GUESS, NCCR Summer School, September, Grindelwald, Suisse. (P)

06. Caylor KK, **Hély C.**, and Shugart HH. **2002**. Estimating emissions of carbonaceous compounds from southern African fires : A re-analysis of modeling techniques. SAFARI 2000 Synthesis Workshop, Octobre 7-11, Charlottesville, USA. (T)

05. **Hély C.**, Alleaume S, Caylor KK, Swap RJ, and Shugart HH. **2002**. Vegetation fuel loads and biomass burning in southern African savannas : Integration of ground-based, remote sensed, and modelling activities. SAFARI 2000 Synthesis Workshop, Octobre 7-11, Charlottesville, USA. (T)

04. **Hély C.**, Alleaume S, Le Roux J, Korontzi S, Swap RJ, Justice C, and Shugart HH. **2001**. Using MODIS to evaluate heterogeneity of biomass burning and emissions in Southern African savannas: Etosha National Park Case Study. IGBP Workshop on Challenges of a changing Earth, Juillet, Amsterdam, Pays-Bas. (P)

03. **Hély C.**, Alleaume S, Swap RJ, Justice C, and Shugart HH. **2000**. Wildfires and prescribed fires: two approaches to analyse fuels, fire behavior, and combustion efficiency on fine scale grasslands and savannas for the SAFARI 2000 project. Workshop on climate change,

biodiversity, multi-species production systems and sustainable livelihoods in th Kalahari region, Octobre, Maun, Botswana. (P)

02. **Hély C.**, Bergeron Y, and Flannigan MD. **1999**. Fire susceptibility in the southeastern Canadian boreal forest: effects of stand composition. Réseau des Centres d'excellence en Aménagement durable des forêts (RCE-ADF): Science et Pratiques: Février, Edmonton (Alberta), Canada. (T)

01. **Hély C.**, Flannigan MD, et Bergeron Y. **1997**. Fuel composition and variability in the southern part of the eastern boreal forest. RCE-ADF: Natural disturbance as template for ecological sustainability, October, Calgary (Alberta), Canada. (P)

5. HDR, Ph.D. and Master Theses

Hély C., **2011**. Processus et dynamiques écologiques : des systèmes naturels aux socio-écosystèmes. Habilitation à Diriger des Recherches Thesis. Ecole Pratique des Hautes Etudes, France, 103p.

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