



CNRM/GAME, UMR 3589



# **PUBLICATIONS / PRODUCTIONS**

**du laboratoire**

**CNRM/GAME, UMR 3589**

**ANNEE 2014**

**Version finale**

## Codification des publications et productions

**ACL** : Articles dans des revues internationales ou nationales avec comité de lecture répertoriées par l'AERES ou dans les bases de données internationales (ISI Web of Knowledge, Pub Med...).

**ACLN** : Articles dans des revues avec comité de lecture non répertoriées par l'AERES ou dans des bases de données internationales.

**ASCL** : Articles dans des revues sans comité de lecture.

**C-INV** : Conférences données à l'invitation du Comité d'organisation dans un congrès national ou international.

**C-ACTI** : Communications avec actes dans un congrès international.

**C-ACTN** : Communications avec actes dans un congrès national.

**AP** : Autres productions : bases de données, logiciels enregistrés, comptes rendus d'ouvrages, rapports de fouilles, guides techniques, catalogues d'exposition, rapports intermédiaires de grands projets internationaux, etc.

Dans cette dernière catégorie sont dissociées :

- ❑ les **THESES**
- ❑ les **HDR** (Habitations à Diriger des Recherches)



CNRM/GAME, UMR 3589



# ACL

**Articles dans des revues internationales ou nationales avec comité de lecture  
répertoriées par l'AERES ou dans les bases de données internationales  
(ISI Web of Knowledge, Pub Med...)**

# 2014

## GMAP

**GMAP-2014-ACL-1** : Bénard P., : An oblate-spheroid geopotential approximation for global meteorology. Quarterly journal of the Royal Meteorological Society, Volume: 140, Issue: 678, Pages: 170-184, Part: A Doi : 10.1002/qj.2141. Published: JAN 2014.

**GMAP-2014-ACL-2** : Boisserie, M., P. Arbogast, L. Descamps, O. Pannekoucke and L. Raynaud. Estimating and diagnosing model error variances in the Meteo-France global NWP model. Quarterly journal of the Royal Meteorological Society, Volume: 140, Issue: 680, Pages: 846-854, Doi : 10.1002/qj.2173. Published: APR 2014.

**GMAP-2014-ACL-3** : Bosveld, F-d C., Peter Baas, Gert-Jan Steeneveld, Albert A.M. Holtslag, Wayne M. Angevine, Eric Bazile, Evert I.F. de Bruijn, Daniel Deacu, John M. Edwards, Michael Ek, Vincent E. Larson, Jonathan E. Pleim, Matthias Raschendorfer, Gunilla Svensson : The Third GABLS Intercomparison Case for Boundary Layer Model Evaluation: Part B: Results and Process Understanding. Boundary-Layer Meteorology, Volume: 152, Issue: 2, Special Issue: SI, Pages: 157-187. Doi: 10.1007/s10546-014-9919-1. Published: AUG 2014.

**GMAP-2014-ACL-4** : Chambon P., S.Q. Zhang , A. Y. Hou, M. Zupanski and S Cheung: Assessing the impact of pre-GPM constellation microwave precipitation radiance data in the Goddard WRF ensemble data assimilation system. Quarterly journal of the Royal Meteorological Society, Volume: 140, Issue: 681, Pages: 1219-1235, Part: B, Doi : 10.1002/qj.2215. Published: APR 2014.

**GMAP-2014-ACL-5** : Crevoisier, C., Clerbaux, C., Guidard, V., Phulpin, T., Armante, R., Barret, B., Camy-Peyret, C., Chaboureau, J.-P., Coheur, P.-F., Crépeau, L., Dufour, G., Labonnote, L., Lavanant, L., Hadji-Lazaro, J., Herbin, H., Jacquinet-Husson, N., Payan, S., Péquignot, E., Pierangelo, C., Sellitto, P., and Stubenrauch, C.: Towards IASI-New Generation (IASI-NG): impact of improved spectral resolution and radiometric noise on the retrieval of thermodynamic, chemistry and climate variables, Atmospheric Measurement Techniques, Volume: 7, Issue: 12, Pages: 4367-4385, Doi:10.5194/amt-7-4367-2014. Published: 2014.

**GMAP-2014-ACL-6** : Desroziers G., J-T. Camino and L. Berre : 4DEnVar : link with 4D state formulation of variational assimilation and different possible implementations. Quarterly journal of the Royal Meteorological Society, Volume: 140, Issue: 684, Pages: 2097-2110, Part: A, Doi : 10.1002/qj.2325. Published: OCT 2014.

**GMAP-2014-ACL-7** : Dubos T. and F. Voitus: A Semi-hydrostatic Theory of Gravity-Dominated Compressible Flow. Journal of the Atmospheric Sciences, Volume: 71, Issue: 12, Pages: 227-244, Doi : 10.1175/JAS-D-14-0080.1. Published: DEC 2014.

**GMAP-2014-ACL-8** : Fischer C., 2014 : An overview and illustration of sensitivity of forecasts with respect to initial conditions. TELLUS SERIES A-Dynamic Meteorology and Oceanography, Volume: 66, Article Number: 20496, Doi : 10.3402/tellusa.v66.20496. Published: 2014.

**GMAP-2014-ACL-9** : Hagelin S., Auger L., Brovelli P., and O. Dupont, 2014: Nowcasting with the AROME Model: First Results from the High-Resolution AROME Airport. Weather and Forecasting, Volume: 29, Issue: 4, Pages: 773-787, Doi: <http://dx.doi.org/1>. Published: AUG 2014.



**GMAP-2014-ACL-10** : Karbou F., F. Rabier, and C. Prigent : The Assimilation of Observations from the Advanced Microwave Sounding Unit over Sea Ice in the French Global Numerical Weather Prediction System. Monthly Weather Review, Volume: 142, Issue: 1, Pages: 125-140, Doi : 10.1175/MWR-D-13-00025.1. Published: JAN 2014.

**GMAP-2014-ACL-11** : Legrand, R., Y. Michel: Modelling background error correlations with spatial deformations: a case study. TELLUS SERIES A-Dynamic Meteorology and Oceanography, Volume: 66, Article Number: 23984, Doi : 10.3402/tellusa.v66.23984. Published: 2014.

**GMAP-2014-ACL-12** : Marquet P. : "On the definition of a moist-air potential vorticity". Quarterly journal of the Royal Meteorological Society, Volume: 140, Issue: 680, Pages: 917-929, Doi : 10.1002/qj.2182. Published: APR 2014.

**GMAP-2014-ACL-13** : Mechri R., C. Ottle, O. Pannekoucke, A. Kallel: Genetic particle filter application to land surface temperature downscaling. Geophysical Research Letters, Volume: 119, Issue: 5, Pages: 2131-2146, Doi : 10.1002/2013JD020354. Published: MAR 16 2014.

**GMAP-2014-ACL-14** : Ménétrier, B., T. Montmerle, L. Berre, Y. Michel: Estimation and diagnosis of heterogeneous flow-dependent background error covariances at convective scale using either large or small ensembles. Quarterly journal of the Royal Meteorological Society, Volume: 140, Issue: 683, Pages: 2050-2061, Part: B, Doi : 10.1002/qj.2267. Published: JUL 2014.

**GMAP-2014-ACL-15** : Michel C., G. Rivière : Sensitivity of the position and variability of the eddy-driven jet to different SST profiles in an aqua-planet general circulation model. Journal of the Atmospheric Sciences, Volume: 71, Issue: 1, Pages: 349-371, Doi : 10.1175/JAS-D-13-074.1. Published: JAN 2014.

**GMAP-2014-ACL-16** : Michel Y., 2014 : Diagnostics on the cost-function in variational assimilations. Nonlinear Processes in Geophysics, Volume: 21, Issue: 1, Pages: 187-199, Doi : 10.5194/npg-21-187-2014. Published : 2014.

**GMAP-2014-ACL-17** : Pannekoucke O., E. Emili, and O. Thual. Modelization of local length-scale dynamics and isotropization deformations. Quarterly journal of the Royal Meteorological Society, Volume: 140, Issue: 681, Pages: 1387-1398, Part: B, Doi : 10.1002/qj.2204. Published: APR 2014.

**GMAP-2014-ACL-18** : Pannekoucke O., L. Raynaud and M. Farge : A wavelet-based filtering of ensemble background-error variances. Quarterly journal of the Royal Meteorological Society, Volume: 140, Issue: 678, Pages: 316-327, Part: A, Doi : 10.1002/qj.2133. Published: JAN 2014.

**GMAP-2014-ACL-19** : Roca R., J. Aublanc, P. Chambon, T. Fiolleau, N. Viltard : Robust Observational Quantification of the Contribution of Mesoscale Convective Systems to Rainfall in the Tropics. Journal of Climate, Volume: 27, Issue: 13, Pages: 4952-4958, Doi : 10.1175/JCLI-D-13-00628.1. Published: JUL 1 2014.

**GMAP-2014-ACL-20** : Schneider S., Y. Wang, W. Wagner & J-F Mahfouf: Impact of ASCAT soil moisture assimilation on regional precipitation forecasts: a case study for Austria. Monthly Weather Review, Volume: 142, Issue: 4, Pages: 1525-1541, Doi : 10.1175/MWR-D-12-00311.1. Published: APR 2014.

## GMEI

**GMEI-2014-ACL-1** : Auclair, F., L. Bordoix, Y. Dossmann, T. Duhaut, C. Estournel, J.W. Floor, P. Marsaleix, C. Nguyen, A. Paci and C. Ulses (2014) : Implementation of a time-dependent bathymetry in a free-surface ocean model : application to internal wave generation, Ocean Modelling, Volume: 80, Pages: 1-9, Doi : 10.1016/j.ocemod.2014. Published: AUG 2014.

**GMEI-2014-ACL-2** : Dossmann, Y., A. Paci, F. Auclair, M. Lepilliez, E. Cid : Topographically induced internal solitary waves in a pycnocline: Ultrasonic probes and stereo-correlation measurement, Physics of Fluid, Volume: 26, Issue: 5, Article Number: 056601, Doi : 10.1063/1.4873202. Published: MAY 2014.



**GMEI-2014-ACL-3** : Klein C., A. Dabas, 2013 : Relationship between optical extinction and liquid water content in fogs. *Atmospheric Measurement Techniques*, Volume: 7, Issue: 5, Pages: 1277-1287, Doi : 10.5194/amt-7-1277-2014. Published: 2014.

**GMEI-2014-ACL-4** : Wang, C., C. Baehr, Z. Lai, Y. Gao, S. Lek, X. Li (2014): Exploring temporal trend of morphological variability of a dominant diatom in response to environmental factors in a large subtropical river. *Ecological Informatics* (2014) DOI: 10.1016/j.ecoinf.2014.11.002 *Ecological Informatics* Wang C. 2014

## GMGEC

**GMGEC-2014-ACL-1** : Ba, J., N. S. Keenlyside, M. Latif, W. Park, H. Ding, K. Lohmann, J. Mignot, M. Menary, O. H. Otterå, B. Wouters, D. Salas y Méliá, A. Oka, A. Bellucci, E. Volodin (2014), *Climate Dynamics*, Volume: 43, Issue: 9-10, Pages: 2333-2348, Doi : 10.1007/s00382-014-2056-1. Published: NOV 2014.

**GMGEC-2014-ACL-2** : J. Barré, V.-H. Peuch, W. A. Lahoz, J.-L. Attié, B. Josse, A. Piacentini, M. Eremenko, G. Dufour, P. Nédélec, T. Von Clarmann, and L. El Amraoui, 2014 : Combined data assimilation of ozone tropospheric columns and stratospheric profile *Quarterly Journal of the Royal Meteorological Society*, Volume 140, Issue 680, Pages 966–981, Published: APR 2014 .

**GMGEC-2014-ACL-3** : Briche E., G. Beltrando, S. Somot, and H. Quenol, 2014 : Critical analysis of simulated daily temperature data from the ARPEGE-Climate model : application to climate change in Champagne wine-producing region. *CLIMATIC CHANGE* Volume: 123 Issue: 2 Pages: 241-254, Doi : 10.1007/s10584-013-1044. Published: MAR 2014.

**GMGEC-2014-ACL-4** : Cantet, P., M. Déqué, P. Palany and J. L. Maridet, 2014 : The importance of using a high resolution model to study the climate change of small islands: the Lesser Antilles case. *Tellus Series A-Dynamic Meteorology and Oceanography*, Volume: 66, Article Number: 24065, Doi : 10.3402/tellusa.v66.24065. Published: 2014.

**GMGEC-2014-ACL-5** : Carminati, F., P. Ricaud, J.-P. Pommereau, E. Rivière, S. Khaykin, J.-L. Attié, and J. Warner, 2014 : Impact of Tropical Land Convection on the Water Vapour Budget in the Tropical Tropopause Layer. *Atmospheric Chemistry and Physics*, Volume: 14, Issue: 12, Pages: 6195-6211, Doi : 10.5194/acp-14-6195-2014. Published: 2014.

**GMGEC-2014-ACL-6** : Carrassi, A., R. Weber, V. Guemas, F. Doblas-Reyes, M. Asif, and D. Volpi, 2014, Full-Field and Anomaly Initialization using a low-order climate model : a comparison and proposals for advanced formulations. *Nonlinear processes in geophysics*, Volume: 21, Issue: 2, Pages: 521-537, Doi : 10.5194/npg-21-521-2014. Published : 2014.

**GMGEC-2014-ACL-7** : Cazenave A., H.-B. Dieng, B. Meyssignac, K. von Schuckmann, B. Decharme, E. Berthier, 2014: The rate of sea-level rise, *Nature Climate Change*, Volume: 4, Issue: 5, Pages: 358-361, Doi : 10.1038/nclimate2159. Published: MAY 2014.

**GMGEC-2014-ACL-8** : Danabasoglu, G., Yeager, S., Bailey, D., Behrens, E., Bentsen, M., Bi, D., Biastoch, A., Bonning, C., Bozec, A., Canuto, V. M., Cassou, C., Chassignet, E., Coward, A. C., Danilov, S., Diansky, N., Drange, H., Farneti, R., Fernandez, E., Fogli, P. G., Forget, G., Fujii, Y., Griffies, S. M., Gusev, A., Heimbach, P., Howard, A., Jung, T., Kelley, M., Large, W. G., Leboissetier, A., Lu, J., Madec, G., Marsland, S. J., Masina, S., Navarra, A., Nurser, A. G., Pirani, A., Salas y Melia, D., Samuels, B. L., Scheinert, M., Sidorenko, D., Treguier, A.-M., Tsujino, H., Uotila, P., Valcke, S., Voldoire, A., Wang, Q., 2014, North Atlantic simulations in coordinated ocean-ice reference experiments phase II (CORE-II). Part I: Mean states, *OCEAN MODELLING*, Volume: 73, Pages: 76-107, Doi : 10.1016/j.ocemod.2013.10.005. Published: JAN 2014.

**GMGEC-2014-ACL-9** : De Laat, A. T. J., I. Aben, M. Deeter, P. Nédélec, H. Eskes, J.-L. Attié, P. Ricaud, R. Abida, L. El Amraoui, and J. Landgraf, 2014 : Validation of nine-years of MOPITT V5 NIR using MOZAIC/IAGOS measurements: biases and long term stability. *Atmospheric Measurement Techniques*, Volume: 7, Issue: 11, Pages: 3783-3799, Doi : 10.5194/amt-7-3783-2014. Published: 2014 .



**GMGEC-2014-ACL-10** : Déandreis, C., C. Pagé, P. Braconnot, L. Bärring, E. Bucchignani, W. S. de Cerff, R. Hutjes, S. Joussaume, C. Mares, S. Planton, and M. Plieger, 2014: Towards a dedicated impact portal to bridge the gap between the impact and climate communities : Lessons from use cases. Climatic Change, Volume : 125, Issue : 3-4, Pages: 333–347, DOI : 10.1007/s10584-014-1139-7, Published: AUG 2014.

**GMGEC-2014-ACL-11** : El Amraoui, L., J.-L. Attié, P. Ricaud, W. A. Lahoz, A. Piacentini, V.-H. Peuch, J. X. Warner, R. Abida, L. Barré, J., and R. Zbinden, 2014 : Tropospheric CO vertical profiles deduced from total columns using data assimilation: methodology and validation, Atmospheric Measurement Techniques, Volume: 7, Issue: 9, Pages: 3035-3057, Doi :10.5194/amt-7-3035-2014. Published: 2014.

**GMGEC-2014-ACL-12** : Emili, E. , B. Barret, S. Massart, E. Le Flochmoen, A. Piacentini, L. El Amraoui, O. Pannekoucke and D. Cariolle, 2013 : Combined assimilation of IASI and MLS observations to constrain tropospheric and stratospheric ozone in a global chemical transport model. ATMOSPHERIC CHEMISTRY AND PHYSICS, Volume: 14, Issue: 1, Pages: 177-198, Doi : 10.5194/acp-14-177-2014. Published: 2014.

**GMGEC-2014-ACL-13** : Foret, G., M. Eremenko, J. Cuesta, P. Sellitto, J. Barré, B. Gaubert, A. Coman, G. Dufour, X. Liu, M. Joly, C. Doche and M. Beekmann, 2014 : Ozone pollution: What can we see from space? A case study, Journal of Geophysical Research-Atmospheres, Volume: 119, Issue: 13, Article Number: 2013JD021340, Doi : 10.1002/2013JD021340. Published: JUL 16 2014.

**GMGEC-2014-ACL-14** : Fréville, H., E. Brun, G. Picard, N. Tatarinova, L. Arnaud, C. Lanconelli, C. Reijmer, and M. van den Broeke : Using MODIS land surface temperature and the Crocus snow model to understand the warm bias of ERA-Interim reanalyses at the surface in Antarctica. Cryosphere, Volume: 8, Issue: 4, Pages: 1361-1373, Doi : 10.5194/tc-8-1361-2014. Published: 2014.

**GMGEC-2014-ACL-15** : Fuckar, N., D. Volpi, V. Guemas, and F. Doblas-Reyes, 2014 : A posteriori adjustment of near-term climate predictions: Accounting for the drift dependence on the initial conditions. Geophysical Research Letters, Volume: 41, Issue: 14, Pages: 5200-5207, Doi : 10.1002/2014GL060815 Published: JUL 28 2014.

**GMGEC-2014-ACL-16** : Gehlen M., R. Séférian, D. Jones, T. Roy, R. Roth, J. Barry, L. Bopp, S. C. Doney, J. P. Dunne, C. Heinze, F. Joos, J. C. Orr, L. Resplandy, J. Segschneider, and J. Tjiputra, 2014 : Projected pH reductions by 2100 might put deep North Atlantic biodiversity at risk. Biogeosciences, Volume: 11, Issue: 23, Pages: 6955-6967, Doi : 10.5194/bg-11-6955-2014. Published: 2014.

**GMGEC-2014-ACL-17** : Geoffroy, O., and D. Saint-Martin, 2014: Pattern decomposition of the transient climate response, Tellus Series A-Dynamic Meteorology and Oceanography, Volume: 66, Article Number: 23393, Doi : 10.3402/tellusa.v66.23393. Published: MAR 2014.

**GMGEC-2014-ACL-18** : Geoffroy O., D. Saint-Martin, A. Voldoire, D. Salas y Mélia, and S. Sénési, 2014 : Adjusted radiative forcing and global radiative feedbacks in CNRM-CM5, a closure of the partial decomposition. Climate Dynamics, Volume : 42, Pages : 1807-1818, DOI :10.1007/s00382-013-1741-9, Published : APR 2014.

**GMGEC-2014-ACL-19** : Germe, A., M. Chevallier, D. Salas y Mélia, E. Sanchez-Gomez, and C. Cassou, 2014: Interannual predictability of Arctic sea ice in a global climate model : Regional contrasts and temporal evolution. Climate Dynamics, Volume: 43, Issue: 9-10, Pages: 2519-2538, Doi : 10.1007/s00382-014-2071-2. Published: NOV 2014.

**GMGEC-2014-ACL-20** : Getirana, A., E. Dutra, M. Guimberteau, J. Kam, H. Yi Li, B. Decharme, Z. Zhang, A. Ducharne, A. Boone, G. Balsamo, M. Rodell, A. M. Toure, Y. Xue, C. D. Peters-Lidard, S. V. Kumar, K. Arsenault, G. Drapeau, L. Ruby Leung, J. Ronchail and J. Sheffield, 2014 : Water Balance in the Amazon Basin from a Land Surface Model Ensemble. Journal of Hydrometeorology, Vol. 15 Issue 6, p2586-2614. 29p. DOI: 10.1175/JHM-D-14-0068.1, Published : DEC 2014.

**GMGEC-2014-ACL-21** : Giordani, H., and G. Caniaux, 2014: Lagrangian sources of frontogenesis in the equatorial Atlantic front. Climate Dynamics, Volume : 43, Issue 11, Pages : 3147-3162, Doi : 10.1007/s00382-014-2293-3. Published : DEC 2014.

**GMGEC-2014-ACL-22** : Griffies, S. M., J. Yin, P. J. Durack, P. Goddard, S. C. Bates, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. W. Böning, A. Bozec, E. Chassignet, G. Danabasoglu, S. Danilov, C. M. Domingues, H. Drange, R. Farneti, E. Fernandez, R. J. Greatbatch, D. M. Holland, M. Ilicak, W. G. Large, K. Lorabacher, J. Lu, S. J. Marsland, A. Mishra, A.J. G. Nurser, D. Salas y Méliá, J. B. Palter, B. L. Samuels, J. Schröter, F. U. Schwarzkopf, D. Sidorenko, A. M. Treguier, Y.-h. Tseng, H. Tsujino, P. Uotila, S. Valcke, A. Voltaire, Q. Wang, M. Winton, and X. Zhang, 2014 : An assessment of global and regional sea level in a suite of interannual CORE-II simulations. Ocean Modelling, Volume: 78, Pages: 35-89, Doi :10.1016/j.ocemod.2014.03.004. Published: JUN 2014.

**GMGEC-2014-ACL-23** : Guemas, V., F. J. Doblas-Reyes, K. Mogensen, Y. Tang, and S. Keeley, 2014 : Ensemble of sea ice initial conditions for interannual climate predictions. Climate Dynamics, Volume: 43, Issue: 9-10, Pages: 2813-2829, Doi : 10.1007/s00382-014-2095-7. Published: NOV 2014.

**GMGEC-2014-ACL-24** : Hache, E., J.-L. Attié, C. Tourneur, P. Ricaud, L. Coret, W.A. Lahoz, L. El Amraoui, B. Josse, P. Hamer, J. Warner, X. Liu, K. Chance, M. Höpfner, R. Spurr, V. Natraj, S. Kulawik, A. Eldering, and J. Orphal, 2014 : The added value of a visible channel to a geostationary thermal infrared instrument to monitor ozone for air quality. ATMOSPHERIC MEASUREMENT TECHNIQUES, Volume: 7, Issue: 7, Pages: 2185-2201, Doi :10.5194/amtd-7-1645-2014. Published: 2014.

**GMGEC-2014-ACL-25** : Hamer, P. D., D. E. Shallcross, A. Yabushita, M. Kawasaki, V. Marécal, and C. S. Boxe, 2014: Investigating the photo-oxidative and heterogeneous chemical production of HCHO in the snowpack at the South Pole. Antarctica, Environmental Chemistry, Volume: 11, Issue: 4, Pages: 459-471, Doi : 10.1071/EN13227. Published: 2014.

**GMGEC-2014-ACL-26** : Hannart, A., A. Ribes, and P. Naveau, 2014 : Optimal fingerprinting under multiple sources of uncertainty. Geophysical Research Letters, Volume: 41, Issue: 4, Pages: 1261-1268, Doi : 10.1002/2013GL058653. Published: FEB 28 2014.

**GMGEC-2014-ACL-27** : Hattab, T., C. Albouy C., F.B.R. Lasram, S. Somot, F. Leloc'h F. and F. Leprieur, 2014 : Towards a better understanding of potential impacts of climate change on marine species distribution : a multiscale modelling approach . Global Ecology and Biogeography, Volume: 23, Issue: 12, Pages: 1417-1429, Doi : 10.1111/geb.12217. Published: DEC 2014.

**GMGEC-2014-ACL-28** : Herrmann M., C. Estournel, F. Adloff, and F. Diaz, 2014 : Impact of climate change on the Northwestern Mediterranean Sea pelagic planktonic ecosystem and associated carbon cycle, Journal of Geophysical Research-Oceans, Volume: 119, Issue: 9, Pages: 5815-5836, Doi : 10.1002/2014JC010016. Published: SEP 2014.

**GMGEC-2014-ACL-29** : Kotlarski, S., K. Keuler, O. B. Christensen, A. Colette, M. Déqué, A. Gobiet, K. Goergen, D. Jacob, D. Lüthi, E. Van Meijgaard, G. Nikulin, C. Schär, C. Teichmann, R. Vautard, K. Warrach-Sagi, and V. Wulfmeyer, 2014 : Regional climate modeling on European scales: a joint standard evaluation of the EURO-CORDEX RCM ensemble. Geoscientific Model Development, Volume: 7, Issue: 4, Pages: 1297-1333, Doi : 10.5194/gmd-7-1297-2014. Published: 2014.

**GMGEC-2014-ACL-30** : Lacressonnière, G., V.-H. Peuch, R. Vautard, J. Arteta, M. Déqué, M. Joly, B. Josse, V. Marécal, and D. Saint-Martin, 2014: European air quality in the 2030s and 2050s: impacts of global and regional emission trends and of climate change. Atmospheric Environment, Volume : 92, Pages : 348-358, Doi : 10.1016/j.atmosenv.2014.04.033. Published: AUG 2014.

**GMGEC-2014-ACL-31** : Lamon L., J. Rizzi, A. Bonaduce, C. Dubois, O. Lazzari , L. Ghenim, S. Gana, S. Somot, L. Li, D. Melaku Kanu, C. Solidoro, N. Pinardi, and A. Marcomini, 2013 : An ensemble of models for identifying climate change scenarios in the Gulf of Gabes, Tunisia.. REGIONAL ENVIRONMENTAL CHANGE Volume: 14 Supplement: 1 Pages: S31-S40, DOI: 10.1007/s10113-013-0430-x. Published: FEB 2014.

**GMGEC-2014-ACL-32** : Ma, H., S. Xie, S. Klein, K. Williams, J. Boyle, S. Bony, H. Douville, S. Fermepin, B. Medeiros, S. Tyteca, M. Watanabe, and D. Williamson, 2014: On the correspondence between mean forecast errors and climate errors in CMIP5 models. Journal of Climate, Volume : 27, Issue : 4, Pages : 1781-1798, DOI: 10.1175/JCLI-D-13-00474.1, Published: FEB 2014.



- GMGEC-2014-ACL-33** : Nabat P., S. Somot, M. Mallet, A. Sanchez-Lorenzo and M. Wild, 2014 : Contribution of anthropogenic sulfate aerosols to the changing Euro-Mediterranean climate since 1980, Geoscience Research Letters, Volume: 41, Issue: 15, Pages: 5605-5611, Doi : 10.1002/2014GL060798. Published: AUG 16 2014.
- GMGEC-2014-ACL-34** : Parard, G., J. Boutin, Y. Cuyppers, P. Bourruet-Aubertot, and G. Caniaux, 2014 : On the physical and biogeochemical processes driving the high frequency variability of CO<sub>2</sub> fugacity at 6°S, 10°W: potential role of internal waves. Journal of Geophysical Research-Ocean, Volume: 119, Issue: 12, Pages: 8357-8374, Doi : 10.1002/2014JC009965. Published: DEC 2014.
- GMGEC-2014-ACL-35** : Piazza, M., J. Boé, L. Terray, C. Pagé, E. Sanchez-Gomez, and M. Déqué, 2014 : Projected 21st century snowfall changes over the French Alps and related uncertainties. Climatic Change, Volume : 122, Issue: 4, Pages : 583-594, DOI : 10.1007/s10584-013-1017-8. Published: FEB 2014.
- GMGEC-2014-ACL-36** : Réchou, A., Narayana Rao, T., Bousquet, O., Plu, M., and Decoupes, R.: Properties of rainfall in a tropical volcanic island deduced from UHF wind profiler measurements, Atmospheric Measurement Techniques, Volume: 7, Issue: 2, Pages: 409-418, Doi : 10.5194/amt-7-409-2014 Published: 2014.
- GMGEC-2014-ACL-37** : Ricaud, P., F. Carminati, Y. Courcoux, A. Pellegrini, J.-L. Attié, L. El Amraoui, R. Abida, C. Genthon, T. August, and J. Warner, 2014 : Statistical Analyses and Correlation between Tropospheric Temperature and Humidity at Dome C, Antarctica. Antarctic Science, Volume: 26, Issue: 3, Pages: 290-308, Doi : 10.1017/S0954102013000564. Published : JUN 2014.
- GMGEC-2014-ACL-38** : Ricaud, P., B. Sič, L. El Amraoui, J.-L. Attié, P. Huszar, S. Szopa, J. Parmentier, N. Jaidan, M. Michou, R. Abida, R. Zbinden, F. Carminati, D. Hauglustaine, T. August, J. Warner, R. Imasu, N. Saitoh, and V.-H. Peuch, 2014 : Variability of tropospheric methane over the Mediterranean Basin inferred from satellite and model data. Atmospheric Chemistry and Physics, Volume: 14, Issue: 20, Pages: 11427-11446, Doi : 10.5194/acp-14-11427-2014. Published: 2014.
- GMGEC-2014-ACL-39** : Roudier, P., B. Muller, P. d'Aquino, C. Roncoli, M.A. Soumaré, L. Batté, B. Sultan, 2014: The Role of Climate Forecasts in Smallholder Agriculture: lessons from participatory research in two communities in Senegal, Climate Risk Management, DOI: 10.1016/j.crm.2014.02.001, Published on-line.
- GMGEC-2014-ACL-40** : Schwinger, J., J. F. Tjiputra, C. Heinze, L. Bopp, J. R. Christian, M. Gehlen, T. Ilyina, C. D. Jones, D. Salas-Méllia, J. Segsneider, R. Séférian, I. Totterdell (2014). Non-linearity of ocean carbon cycle feedbacks in CMIP5 earth system models, Journal of Climate, Volume: 27, Issue: 11, Pages: 3869-3888, Doi : 10.1175/JCLI-D-13-00452.1. Published: JUN 1 2014.
- GMGEC-2014-ACL-41** : Séférian, R., L. Bopp, G. Marion, D. Swingedouw, J. Mignot, E. Guilyardi, and J. Servonnat, 2014 : The multi-year predictability of tropical marine productivity. Proceeding of the National Academy of Science, Volume : 11, Issue : 32, Pages : 11646-11651, DOI : 10.1073/pnas.1315855111, Published : AUG 2014.
- GMGEC-2014-ACL-42** : Séférian, R., A. Ribes, and L. Bopp, 2014 : Detecting the anthropogenic influences on recent changes in ocean carbon uptake. Geophysical Research Letters, Volume: 41, Issue: 16, Pages: 5968-5977, Doi :10.1002/2014GL061223. Published: AUG 28 2014.
- GMGEC-2014-ACL-43** : Servain, J., G. Caniaux, Y.K. Kouadio, M.J. McPhaden, and M. Araujo, 2014 : Recent climatic trends in the tropical Atlantic: a role for ocean dynamics? Climate Dynamics, Volume: 43, Issue: 11, Special Issue: SI, Pages: 3071-3089, Doi 10.1007/s00382-014-2168-7. Published: DEC 2014.
- GMGEC-2014-ACL-44** : Somot, S., Li, D. Melaku Kanu, C. Solidoro, N. Pinardi and A. Marcomini, 2013 : An ensemble of models for identifying climate change scenarios in the Gulf of Gabes, Tunisia. Regional Environmental Change, Volume : 14, Pages : 31-40, DOI : 10.1007/s10113-013-0430-x, Published : FEB 2014.



**GMGEC-2014-ACL-45** : Tietsche S., J.J. Day, V. Guemas, W.J. Hurlin, S.P.E. Keeley, D. Matei, R. Msadek, M. Collins and E. Hawkins, 2014 : Seasonal to interannual Arctic sea-ice predictability in current GCMs Geophysical Research Letters, Volume: 41, Issue: 3, Pages: 1035-1043, Doi :10.1002/2013GL058755. Published: FEB 16 2014.

**GMGEC-2014-ACL-46** : Vergnes, J.-P., B. Decharme, and F. Habets, 2014 : Introduction of groundwater capillary rises using subgrid spatial variability of topography into the ISBA land surface model, Journal of Geophysical Research - Atmospheres, Volume: 119, Issue: 19, Pages: 11065-11086, Doi : 10.1002/2014JD021573. Published: OCT 16 2014.

**GMGEC-2014-ACL-47** : Voltaire, A., M. Claudon, G. Caniaux, H. Giordani, and R. Roehrig, 2014: Are atmospheric biases responsible for the tropical Atlantic SST biases in the CNRM-CM5 coupled model?, Climate Dynamics, Volume: 43, Issue: 11, Special Issue: SI, Pages: 2963-2984, Doi :10.1007/s00382-013-2036-x Published: DEC 2014.

**GMGEC-2014-ACL-48** : Warner J., R. Yang, Z. Wei, F. Carminati, A. Tangborn, Z. Sun, W. Lahoz, J.-L. Attié, L. El Amraoui, and B. Duncan, 2014 : Global carbon monoxide products from combined AIRS, TES and MLS measurements on A-train satellites, Atmospheric Chemistry and Physics, Volume : 14, Issue : 1, Pages : 103-114, DOI: 10.5194/acp-14-103-2014 , Published: 2014.

**GMGEC-2014-ACL-49** : Yiou, P., and J. Cattiaux, 2014 : Contribution of atmospheric circulation to the wet South European winter of 2013, in « Explaining Extreme Events of 2013 from a Climate Perspective ». Bulletin of the American Meteorological Society, Volume: 95, Issue: 9, Supplement: S, Pages: S66-S69, Doi : 10.1175/1520-0477-95.9.S1.1. Published: SEP 2014.

## GMME

**GMME-2014-ACL-1** : Amri, R., M. Zribi, Z. Lili-Chabaane, C. Szczypta, J.-C. Calvet, and G. Boulet: FAO-56 dual model combined with multi-sensor remote sensing for regional evapotranspiration estimations, Remote Sensing, Volume: 6, Issue: 6, Pages: 5387-5406, Doi : 10.3390/rs6065387. Published: JUN 2014.

**GMME-2014-ACL-2** : Aumond, P., Guillaume, G., Gauvreau, B., Lac, C., Masson, V., Berengier, M., 2014 : Application of the Transmission Line Matrix method for outdoor sound propagation modelling - Part 2: Experimental validation using meteorological data derived from the meso-scale model Meso-NH. APPLIED ACOUSTICS, Volume: 76, Pages: 107-112, Doi : 10.1016/j.apacoust.2013.07.015. Published : FEB 2014.

**GMME-2014-ACL-3** : Balzarolo, M., S. Boussetta, G. Balsamo, A. Beljaars, F. Maignan, J.-C. Calvet, S. Lafont, A. Barbu, B. Poulter, F. Chevallier, C. Szczypta, and D. Papale: Evaluating the potential of large scale simulations to predict carbon fluxes of terrestrial ecosystems over a European Eddy Covariance network. Biogeosciences, Volume: 11, Issue: 10, Pages: 2661-2678, Doi : 10.5194/bg-11-2661-2014. Published: 2014.

**GMME-2014-ACL-4** : Beck, J., M. Nuret, O. Bousquet, 2014 : Model Wind Field Forecast Verification Using Multiple-Doppler Syntheses from a National Radar Network, Weather and Forecasting, Volume: 29, Issue: 2, Pages: 331-348, Doi : 10.1175/WAF-D-13-00068.1. Published: APR 2014.

**GMME-2014-ACL-5** : Berthou, S., S. Mailler, P. Drobinski, T. Arsouze, S. Bastin, K. Béranger, and C. Lebeaupin Brossier, 2014: Prior history of Mistral and Tramontane winds modulates heavy precipitation events in southern France. TELLUS Series A-Dynamic Meteorology and Oceanography, Volume: 66, Article Number: 24064, Doi : 10.3402/tellusa.v66.24064. Published: 2014.

**GMME-2014-ACL-6** : Braud, I., P.-A. Ayrat, C. Bouvier, F. Branger, G. Delrieu, J. Le Coz, G. Nord, J.-P. Vandervaere, S. Anquetin, M. Adamovic, J. Andrieu, C. Batiot, B. Boudevillain, P. Brunet, J. Carreau, A. Confoland, J.-F. Didon-Lescot, J.-M. Domergue, J. Douvinet, G. Dramais, R. Freyrier, S. Gérard, J. Huza, E. Leblois, O. Le Bourgeois, R. Le Boursicaud, P. Marchand, P. Martin, L. Nottale, N. Patris, B. Renard, J.-L. Seidel, J.-D. Taupin, O. Vannier, B. Vincendon, and A. Wijbrans, 2014 : Multi-scale hydrometeorological observation and modelling for flash-flood understanding, Hydrology and Earth Systems Sciences, Volume: 18, Issue: 9, Pages: 3733-3761, Doi:10.5194/hess-18-3733-2014. Published: 2014.

- GMME-2014-ACL-7** : Brenot, H., A. Walpersdorf, M. Reverdy, J. Van-Baelen, V. Ducrocq, C. Champollion, F. Masson, E. Doerflinger, P. Collard, P. Giroux, 2014 : A GPS network for tropospheric tomography in the framework of the Mediterranean hydrometeorological observatory Cévennes-Vivarais (southeastern France), Atmospheric Measurement Techniques, Volume: 7, Issue: 2, Pages: 553-578, Doi:10.5194/amt-7-553-2014. Published: 2014.
- GMME-2014-ACL-8** : Carrer, D., X. Ceamanos, B. Six et J.L. Roujean, AERUS-GEO: A newly available satellite-derived aerosol optical depth product over Europe and Africa, Geophysical Research Letters, Volume: 41, Issue: 21, Pages: 7731-7738, Doi:10.1002/2014GL061707. Published: NOV 16 2014.
- GMME-2014-ACL-9** : Carrer, D., Meurey M., Ceamanos X., Roujean J.-L., Calvet J.-C. and Liu S.: Dynamic mapping of snow-free vegetation and bare soil albedos at global 1 km scale from 10-year analysis of MODIS satellite products. REMOTE SENSING OF ENVIRONMENT, Volume: 140, Pages: 420-432, Doi : 10.1016/j.rse.2013.08.041. Published: JAN 2014.
- GMME-2014-ACL-10** : Ceamanos, X., Carrer, D., Roujean, J.-L. An efficient approach to estimate the transmittance and reflectance of a mixture of aerosol components. ATMOSPHERIC RESEARCH, Volume: 137, Pages: 125-135, Doi : 10.1016/j.atmosres.2013.09.009. Published: FEB 2014.
- GMME-2014-ACL-11** : Ceamanos, X., D. Carrer, et J.L. Roujean 2014 : Improved retrieval of direct and diffuse downwelling surface shortwave flux in cloudless atmosphere using dynamic estimates of aerosol content and type: application to the LSA-SAF project, Atmospheric Chemistry and Physics, Volume: 14, Issue: 15, Pages: 8209-8232, Doi: 10.5194/acp-14-8209-2014. Published: 2014.
- GMME-2014-ACL-12** : Couvreux, F., F. Guichard, A. Gounou, D. Bouniol, P. Peyrillé and M. Köhler, 2014 : Modelling of the Thermodynamical Diurnal Cycle in the Lower Atmosphere : A Joint Evaluation of Four Contrasted Regimes in the Tropics Over Land. BOUNDARY-LAYER METEOROLOGY, Volume: 150, Issue: 2, Pages: 185-214, Doi : 10.1007/s10546-013-9862-6. Published: FEB 2014.
- GMME-2014-ACL-13** : Di Luca, A., E. Flaounas, P. Drobinski, C. Lebeaupin-Brossier, 2014: The atmospheric component of the Mediterranean Sea water budget in a WRF multi-physics ensemble and observations. Climate Dynamics, Volume: 43, Issue: 9-10, Pages: 2349-2375, Doi:10.1007/s00382-014-2058-z. Published: NOV 2014.
- GMME-2014-ACL-14** : Dione, C., M. Lothon, D. Badiane, B. Campistron, F. Couvreux, F. Guichard et S. M. Salla, 2013 : Phenomenology of Sahelian convection observed in Niamey during the early monsoon. Quarterly Journal of the Royal Meteorological Society, Volume: 140, Issue: 679, Pages: 500-516, Part: B, Doi:10.1002/qj.2149. Published: JAN 2014.
- GMME-2014-ACL-15** : Getirana, A. C. V., A. Boone, and C. Peugeot, 2014: Evaluating LSM-based water budgets over a West African basin assisted with a river routing scheme, Journal of Hydrometeorology, Volume: 15, Issue: 6, Pages: 2331-2346, Doi: 10.1175/JHM-D-14-0012.1. Published: DEC 2014.
- GMME-2014-ACL-16** : Hagos, S., L. R. Leung, Y. Xue, A. Boone, F. de Sales, N. Neupane, M. Huang, and J.-H. Yoon, 2014 : On the Response of the African Monsoon Precipitation to Land Use Change in Regional Model Simulations. Clim. Dyn., (in press). DOI: 10.1007/s00382-014-2092-x
- GMME-2014-ACL-17** : Hally, A., Richard, E., and Ducrocq, V. 2014 : An ensemble study of HyMeX IOP6 and IOP7a: sensitivity to physical and initial and boundary condition uncertainties, Natural Hazard and Earth System Sciences, Volume: 14, Issue: 5, Pages: 1071-1084, Doi:10.5194/nhess-14-1071-2014. Published: 2014.
- GMME-2014-ACL-18** : Liu, S., J.-L. Roujean, A. T. Kaptue Tchente, X. Ceamanos, and J.-C. Calvet: A parameterization of SEVIRI and MODIS daily surface albedo with soil moisture: calibration and validation over southwestern France, Remote Sensing of Environment, Volume: 144, Pages: 137-151, Doi:10.1016/j.rse.2014.01.016, 2014. Published: MAR 25 2014.
- GMME-2014-ACL-19** : Lohou, F., L. Kergoat, F. Guichard, A. Boone, B. Cappelaere, J.-M. Cohard, J. Demarty, S. Galle, C. Peugeot, D. Ramier, C. Taylor and F. Timouk, 2014: Surface response to rain events throughout the West African monsoon. Atmospheric Chemistry and Physics, Volume: 14, Issue: 8, Pages: 3883-3898, Doi:10.5194/acp-14-3883-2014. Published: 2014.



**GMME-2014-ACL-20** : Pedinotti, V., A. Boone, S. Ricci, S. Biancamaria and N. Mognard, 2014: Assimilation of satellite data to optimize large scale hydrological model parameters : A case study for the SWOT mission. Hydrology and Earth System Sciences, Volume: 18, Issue: 11, Pages: 4485-4507, Doi:10.5194/hess-18-4485-20. Published: 2014.

**GMME-2014-ACL-21** : Pigeon G., K. Zibouche, B. Bueno, J. Le Bras, V. Masson, 2014 : Evaluation of building energy simulations with the TEB model against EnergyPlus for a set of representative buildings in Paris. Energy and Buildings, Volume: 76, Pages: 1-14, Doi : 10.1016/j.enbuild.2013.10.038. Published: JUN 2014.

**GMME-2014-ACL-22** : Randrianasolo, A., G. Thirel, M. Ramos, E. Martin, E. 2014 : Impact of streamflow data assimilation and length of the verification period on the quality of short-term ensemble hydrologic forecasts Journal of Hydrology, Volume: 519, Pages: 2676-2691, Part: D, Published: NOV 27 2014.

**GMME-2014-ACL-23** : Rochetin N., F. Couvreur, J-Y Grandpeix, and C. Rio, 2014 : Deep Convection Triggering by Boundary Layer Thermals. Part I: LES Analysis and Stochastic Triggering Formulation. Journal of the Atmospheric Sciences, Volume: 71, Issue: 2, Pages: 496-514, Doi: 10.1175/JAS-D-12-0336.1. Published: FEB 2014.

**GMME-2014-ACL-24** : Rochetin N., J-Y Grandpeix, C. Rio, and F. Couvreur, 2014 : Deep Convection Triggering by Boundary Layer Thermals. Part II: Stochastic Triggering Parameterization for the LMDZ GCM. Journal of the Atmospheric Sciences, Volume: 71, Issue: 2, Pages: 515-538, Doi: 10.1175/JAS-D-12-0337.1. Published: FEB 2014.

**GMME-2014-ACL-25** : Salinger, M.J., S. McGree, F. Beucher, S. B. Power, F. Delage, : A new index for variations in the position of the south pacific convergence, Climate Dynamics, Volume: 43, Issue: 3-4, Pages: 881-892, Doi : 10.1007/s00382-013-2035-y. Published: AUG 2014.

**GMME-2014-ACL-26** : Stéfanon, M., P. Drobinski, F. D'Andrea, C. Lebeaupin Brossier, S. Bastin, 2014: Soil moisture-temperature feedbacks during heat waves over Western Europe, Climate Dynamics, Volume: 42, Issue: 5-6, Pages: 1309-1324, Doi:10.1007/s00382-013-1794-9. Published: MAR 2014.

**GMME-2014-ACL-27** : Szczypta, C., J.-C. Calvet, F. Maignan , W. Dorigo , F. Baret , and P. Ciais, 2014 : Suitability of modelled and remotely sensed essential climate variables for monitoring Euro-Mediterranean droughts, Geoscientific Model Development, Volume: 7, Issue: 3, Pages: 931-946, Doi : 10.5194/gmd-7-931-2014. Published: 2014.

**GMME-2014-ACL-28** : Wagner, W., L. Brocca, V. Naeimi, R. Reichle, C. Draper, R. de Jeu, D. Ryu, C.-H. Su, A. Western, J.-C. Calvet, Y. H. Kerr, D. J. Leroux, M. Drusch, T. J. Jackson, S. Hahn, W. Dorigo, C. Paulik, "Clarifications on the "Comparison between SMOS, VUA, ASCAT, and ECMWF soil moisture products over four watersheds in U.S". IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING Volume: 52 Issue: 3 Pages: 1901-1906, Doi : 10.1109/TGRS.2013.2282172. Published: MAR 2014.

**GMME-2014-ACL-29** : Habets, F., E. Philippe, E. Martin, C. David et F. Leseur 2014 : Small farm dams: impact on river flows and sustainability in a context of climate change. Hydrology and Earth System Sciences, Volume: 18, Issue: 10, Pages: 4207-4222, Doi : 10.5194/hess-18-4207-2014. Published: 2014.

**GMME-2014-ACL-30** : Xu, H., X. Ceamanos, J.L. Roujean, D. Carrer, et Y. Xue, 2014 : Can satellite-derived aerosol optical depth quantify the surface aerosol radiative forcing?. Atmospheric Research, Volume: 150, Pages: 151-167, Doi : 10.1016/j.atmosres.2014.07.008. Published: DEC 2014.

**GMME-2014-ACL-31** : Yano J-I, M. Vlad, S-H Derbyshire, J-F Geleyn and K. Kober, 2014 : Generalization, Consistency, and Unification in the Parameterization Problem, Bulletin of the American Meteorological Society, Volume: 95, Issue: 4, Pages: 619-622, Doi : 10.1175/BAMS-D-13-00123.1. Published: APR 2014.





## CEN

**CEN-2014-ACL-1** : Calonne, N., C. Geindreau and F. Flin, 2014 : Macroscopic Modeling for Heat and Water Vapor Transfer in Dry Snow by Homogenization. The Journal of Physical Chemistry B, Volume: 118, Issue: 47, Pages: 13393-403, Doi: 10.1021/jp5052535. Published: JUL 2014.

**CEN-2014-ACL-2** : Calonne, N., F. Flin, C. Geindreau, B. Lesaffre and S. Rolland du Roscoat, 2014 : Study of a temperature gradient metamorphism of snow from 3-D images: time evolution of microstructures, physical properties and their associated anisotropy. The Cryosphere, Volume: 8, Pages: 2255-2274, Doi: 10.5194/tc-8-2255-2014. Published: DEC 2014.

**CEN-2014-ACL-3** : Carmagnola, C. M., S. Morin, M. Lafaysse, F. Domine, B. Lesaffre, Y. Lejeune, G. Picard, and L. Arnaud, 2014 : Implementation and evaluation of prognostic representations of the optical diameter of snow in the SURFEX/ISBA-Crocus detailed snowpack model. The cryosphere. Volume: 8, Issue: 2, Pages: 417-437, Doi: 10.5194/tc-8-417-2014. Published: MAR 2014.

**CEN-2014-ACL-4** : Castebrunet, H., N. Eckert, G. Giraud, Y. Durand, and S. Morin, 2014 : Projected changes of snow conditions and avalanche activity in a warming climate: a case study in the French Alps over the 2020–2050 and 2070–2100 periods. The Cryosphere, Volume: 8, Issue: 5, Pages: 1673-1697, Doi: 10.5194/tc-8-1673-2014. Published: SEP 2014 .

**CEN-2014-ACL-5** : Dietzel, M., A. Leis, R. Abdalla, J. Savarino, S. Morin, M. E. Böttcher, and S. Köhler : 17O excess traces atmospheric nitrate in paleo-groundwater of the Saharan desert. Biogeosciences, Volume: 11, Issue: 12, Pages: 3149-3161, Doi: 10.5194/bg-11-3149-2014. Published: JUN 2014.

**CEN-2014-ACL-6** : François, H., S. Morin, M. Lafaysse and E. George-Marcelpoil, 2014 : Crossing numerical simulations of snow conditions with a spatially-resolved socio-economic database of ski resorts: a proof of concept in the French Alps. Cold Regions Science and Technology, Volume: 108, Pages: 98-112, Doi: 10.1016/j.coldregions.2014.08.005. Published: 2014.

**CEN-2014-ACL-7** : Gallet, J.-C., F. Domine and M. Dumont, 2014 : Measuring the specific surface area of wet snow using 1310 nm reflectance. The Cryosphere, Volume: 8, Issue: 4, Pages: 1139-1148, Doi: 10.5194/tc-8-1139-2014. Published: JUL 2014.

**CEN-2014-ACL-8** : Gascon, G., M. Sharp, D. Burgess, P. Bezeau, A. B. Bush, S. Morin and M. Lafaysse, 2014 : How well is firn densification represented by a physically-based multilayer model? Model evaluation for the Devon Ice Cap, Nunavut, Canada. Journal of Glaciology, Volume: 60, Issue: 222, Pages: 694-704, Doi: 10.3189/2014JoG13J209. Published: 2014.

**CEN-2014-ACL-9** : Ginot, P., M. Dumont, S. Lim, N. Patris, J.-D. Taupin, P. Wagnon, A. Gilbert, Y. Arnaud, A. Marinoni, P. Bonasoni and P. Laj, 2014 : A 10 year record of black carbon and dust from a Mera Peak ice core (Nepal): variability and potential impact on melting of Himalayan glaciers. The Cryosphere, Volume: 8, Issue: 4, Pages: 1479-1496, Doi: 10.5194/tc-8-1479-2014. Published: AUG 2014.

**CEN-2014-ACL-10** : Hagenmuller, P., N. Calonne, G. Chambon, F. Flin, C. Geindreau and M. Naaim, 2014 : Characterization of the snow microstructural bonding system through the minimum cut density. Cold Regions Science and Technology, Volume: 108, Pages: 72-79, Doi: 10.1016/j.coldregions.2014.09.002, Published: SEP 2014.

**CEN-2014-ACL-11** : Hagenmuller, P., G. Chambon, F. Flin, S. Morin and M. Naaim, 2014 : Snow as a granular material: assessment of a new grain segmentation algorithm. Granular Matter, Volume: 16, Issue: 4, Pages: 421-432, Doi: 10.1007/s10035-014-0503-7. Published: MAY 2014.

**CEN-2014-ACL-12** : Lafaysse, M., B. Hingray, A. Mezghani, J. Gailhard, and L. Terray, 2014 : Internal variability and model uncertainty components in future hydrometeorological projections: The Alpine Durance basin. Water Resources Research, Volume: 50, Issue: 4, Pages: 3317-3341, Doi: 10.1002/2013WR014897. Published: MAR 2014.



**CEN-2014-ACL-13** : Libois, Q., G. Picard, M. Dumont, L. Arnaud, C. Sergent, E. Pougatch, M. Sudul and D. Vial, 2014 : Experimental determination of the absorption enhancement parameter of snow. Journal of Glaciology, Volume: 60, Issue: 222, Pages: 714-724, Doi: 10.3189/2014JoG14J015. Published: 2014.

**CEN-2014-ACL-14** : Naaim-Bouvet, F., H. Bellot, K. Nishimura, C. Genthon, C. Palerme, G. Guyomarc'h and V. Vionnet, 2014 : Detection of snowfall occurrence during blowing snow events using photoelectric sensors. Cold Regions Science and Technology, Volume: 106, Pages: 11-21, Doi: 10.1016/j.coldregions.2014.05.005. Published: JUN 2014.

**CEN-2014-ACL-15** : Phan, X.V., L. Ferro-Famil, M. Gay, Y. Durand, M. Dumont, S. Morin, S. Allain, G. D'Urso and A. Girard, 2014 : 1D-Var multilayer assimilation of X-band SAR data into a detailed snowpack model. The Cryosphere, Volume: 8, Issue: 5, Pages: 1975-1987, Doi: 10.5194/tc-8-1975-2014. Published: OCT 2014.

**CEN-2014-ACL-16** : Vionnet, V., S. Bélair, C. Girard, and A. Plante, 2014 : Wintertime sub-kilometer numerical forecasts of near-surface variables in the Canadian Rocky Mountains. Monthly Weather Review/American Meteorological Society, Volume: 143, Pages: 666-686, Doi: <http://dx.doi.org/10.1175/MWR-D-14-00128.1>. Published: SEP 2014.

**CEN-2014-ACL-17** : Wang, X., D. Coeurjolly and F. Flin, 2014 : Digital flow for shape decomposition: application to 3-D microtomographic images of snow. Pattern Recognition Letters, Volume: 45, Pages: 181-188, Doi: 10.1016/j.patrec.2014.03.005. Published: MAR 2014.

**CEN-2014-ACL-18** : Wright, P., M. Bergin, J. Dibb, B. Lefer, F. Domine, T. Carman, C. Carmagnola, M. Dumont, C. Schaaf, Z. Wang and Z. Courville, 2014 : Comparing MODIS daily snow albedo to spectral albedo field measurements in Central Greenland. Remote Sensing of Environment, Volume: 140, Pages: 118-129, Doi: 10.1016/j.rse.2013.08.044. Published: 2014.

## MULTI-GROUPES

**GMAP-GMEI-2014-ACL-1** : Angevine, W. M., Bazile, E., Legain, D., and Pino, D.: Land surface spinup for episodic modeling, Atmospheric Chemistry and physics, Volume: 14, Issue: 15, Pages: 8165-8172, Doi : 10.5194/acp-14-8165-2014. Published: 2014.

**GMME-GMAP-2014-ACL-2** : Barbu, A.L., J.-C. Calvet, J.-F. Mahfouf, and S. Lafont: Integrating ASCAT surface soil moisture and GEOV1 leaf area index into the SURFEX modelling platform: a land data assimilation application over France. HYDROLOGY AND EARTH SYSTEM SCIENCES Volume: 18, Issue: 1, Pages: 173-192, Doi : 10.5194/hess-18-173-2014. Published: 2014.

**GMME-CEN-2014-ACL-3** : Beucher, F., J-P. Lafore, F. Karbou, R. Roca, 2013 : High-resolution prediction of a major convective period over West Africa, Quaterly Journal of the Royal Meteorological Society, Volume: 140, Issue: 682, Pages: 1409-1425, Part: A. DOI : 10.1002/qj.2225. Published: JUL 2014.

**GMEI-GMME-2014-ACL-4** : Bousquet O., A. Berne; J. Delanoe; Y. Dufournet; J. Gourley; J.I Van Baelen; C. Augros; L. Besson; B. Boudevillain; O. Caumont; E. Defer; J. Grazioli; D. Jorgensen; P. Kirstetter; J.-F. Ribaud; J. Beck; G. Delrieu; V. Ducrocq; D. Scipion; A. Schwarzenboeck; J. Zwiebel, 2014 : Multiple-frequency radar observations collected in southern France during the field phase of the Hydrometeorological Cycle in the Mediterranean Experiment (HyMeX)" , Bulletin of the American Meteorological Society, doi:10.1175/BAMS-D-13-00076.1.on line

**GMAP-GMME-2014-ACL-5** : Brousseau P., G. Desroziers, F. Bouttier et B. Chapnik: A posteriori diagnostics of the impact of observations on the AROME-France convective-scale data-assimilation system. Quaterly journal of the Royal Meteorological Society, Volume: 140, Issue: 680, Pages: 982-994, Doi : 10.1002/qj.2179. Published: APR 2014.



**GMME-GMGEC-2014-ACL-6** : Canal, N., J.-C. Calvet, B. Decharme, D. Carrer, S. Lafont, and G. Pigeon 2014 : Evaluation of root water uptake in the ISBA-A-gs land surface model using agricultural yield statistics over France. *Hydrology and Earth Systems Sciences*, Volume: 18, Issue: 12, Pages: 4979-4999, Doi : 10.5194/hess-18-4979-2014. Published: 2014.

**GMME-GMGEC-2014-ACL-7** : Drobinski, P., V. Ducrocq, P. Alpert, E. Anagnostou, K. Béranger, M. Borga, I. Braud, A. Chanzy, S. Davolio, G. Delrieu, C. Estournel, N. Filali Boubrahmi, J. Font, V. Grubisic, S. Gualdi, V. Homar, B. Ivančan-Picek, C. Kottmeier, V. Kotroni, K. Lagouvardos, P. Lionello, M. C. Llasat, W. Ludwig, C. Lutoff, A. Mariotti, E. Richard, R. Romero, R. Rotunno, O. Roussot, I. Ruin, S. Somot, I. Taupier-Letage, J. Tintoré, R. Uijlenhoet, H. Wernli, 2014 : HyMeX, A10-year multidisciplinary program on the Mediterranean water cycle, *Bulletin of the American Meteorological Society*, Volume: 95, Issue: 7, Pages: 1063-+, Doi : 10.1175/BAMS-D-12-00242.1. Published: JUL 2014.

**GMME-GMGEC-GMAP-2014-ACL-8** : Ducrocq, V., I. Braud, S. Davolio, R. Ferretti, C. Flamant, A. Jansà, N. Kalthoff, E. Richard, I. Taupier-Letage, P.-A. Aral, S. Belamari, A. Berne, M. Borga, B. Boudevillain, O. Bock, J.-L. Boichard, M.-N. Bouin, O. Bousquet, C. Bouvier, J. Chiggiano, D. Cimini, U. Corsmeier, L. Coppola, P. Cocquerez, E. Defer, J. Delanoë, P. Di Girolamo, A. Doerenbecher, P. Drobinski, Y. Dufournet, N. Fourrié, J. J. Gourley, L. Labatut, D. Lambert, J. Le Coz, F. S. Marzano, G. Molinié, A. Montani, G. Nord, M. Nuret, K. Ramage, B. Rison, O. Roussot, F. Said, A. Schwarzenboeck, P. Testor, J. Van-Baelen, B. Vincendon, M. Aran, J. Tamayo, 2014 : HyMeX-SOP1, the field campaign dedicated to heavy precipitation and flash flooding in the northwestern Mediterranean, *Bulletin of the American Meteorological Society*, Volume: 95, Issue: 7, Pages: 1083-+, Doi : 10.1175/BAMS-D-12-00244.1. Published: JUL 2014.

**CEN-GMGEC-2014-ACL-9** : Dumont, M., E. Brun, G. Picard, M. Michou, Q. Libois, J.-R. Petit, M. Geyer, S. Morin, and B. Josse, 2014 : Contribution of light-absorbing impurities in snow Greenland's darkening since 2009. *Nature Geoscience*, Volume: 7, Issue: 7, Pages: 509-512, Doi: 10.1038/ngeo2180. Published: JUL 2014.

**CEN-GMGEC-2014-ACL-10** : Gallet, J.-C., Domine, F., Savarino, J., Dumont, M., and Brun, E., 2014 : The growth of sublimation crystals and surface hoar on the Antarctic plateau, *The Cryosphere*, Volume: 8, Issue: 4, Pages: 1205-1215, Doi : 10.5194/tc-8-1205-2014. Published: JUL 2014.

**GMGEC-GMME-2014-ACL-11** : Getirana, A. C. V., E. Dutra, M. Guimberteau, J. Kam, H.-Y. Li, B. Decharme, Z. Zhang, A. Ducharme, A. Boone, G. Balsamo, M. Rodell, A. M. Toure, Y. Xue, C. D. Peters-Lidard, S. V. Kumar, K. Arsenault, G. Drapeau, L. R. Leung, J. Ronchail, and J. Sheffield, 2014: Water Balance in the Amazon Basin from a Land Surface Model Ensemble. *Journal of Hydrometeorology*, Volume: 15, Issue: 6, Pages: 2586-2614, Doi: 10.1175/JHM-D-14-0068.1. Published: DEC 2014.

**GMGEC-GMAP-2014-ACL-12** : Guemas V., L. Auger, F. Doblas-Reyes, 2013 : Hypothesis testing for autocorrelated short climate time series. *Journal of Applied Meteorology and Climatology*, Volume: 53, Issue: 3, Pages: 637-651, Doi : 10.1175/JAMC-D-13-064.1. Published: MAR 2014.

**GMGEC-GMME-2014-ACL-13** : Jacob, D., J. Petersen, B. Eggert, A. Alias, O. B. Christensen, L. Bouwer, A. Braun, A. Colette, M. Déqué, G. Georgievski, E. Georgopoulou, A. Gobiet, L. Menut, G. Nikulin., A. Haensler, N. Hempelmann, C. Jones, K. Keuler, S. Kovats, N. Kröner, S. Kotlarski, A. Kriegsmann, E. Martin, E. van Meijgaard, Moseley C., Pfeifer S., Preuschmann S., Radtke K., Rechid D., M. Rounsevell, P. Samuelsson, S. Somot, J.-F. Soussana, C. Teichmann, R. R Valentini., R. Vautard, B. Weber, and P. Yiou, 2013: EURO-CORDEX: New high-resolution climate change projections for European impact research. *REGIONAL ENVIRONMENTAL CHANGE* Volume: 14 Issue: 2 Special Issue: SI Pages: 563-578 DOI : 10.1007/s10113-013-0499-2. Published: APR 2014

**GMGEC-GMME-2014-ACL-14** : Joetzer, E., C. Delire, H. Douville, P. Ciais, B. Decharme, R. Fisher, B. Christoffersen, J. C. Calvet, A. C. L. da Costa, L. V. Ferreira, and P. Meir: Predicting the response of the Amazon rainforest to persistent drought conditions under current and future climates: a major challenge for global land surface models, *Geosci. Model Dev.*, 7, 2933–2950, doi:10.5194/gmd-7-2933-2014, 2014.

**CEN-GMAP-2014-ACL-15** : Karbou F., F. Rabier, and C. Prigent, 2014 : The Assimilation of Observations from the Advanced Microwave Sounding Unit over Sea Ice in the French Global Numerical Weather Prediction System. *Monthly Weather Review*, Volume: 142, Issue: 1, Pages: 125-140, Doi: 10.1175/MWR-D-13-00025.1. Published: JAN 2014.

**GMME-GMGEC-GMAP-2014-ACL-16** : Lebeaupin Brossier, C., T. Arsouze, K. Béranger, M-N. Bouin, E. Bresson, V. Ducrocq, H. Giordani, M. Nuret, R. Rainaud, I. Taupier-Letage, 2014: Ocean mixed layer responses to intense meteorological events during HyMeX-SOP1 from a high-resolution ocean simulation. *Ocean Modelling*, Volume: 84, Pages: 84-103, Doi :10.1016/j.ocemod.2014.09.009. Published: DEC 2014.

**GMME-GMGEC-2014-ACL-17** : Lemonsu A., A-L Beaulant, S. Somot, V. Masson, 2014 : Evolution of occurrence of heat waves over the Paris basin (France) in the 21st century, *Climate Research*, Volume: 61, Issue: 1, Pages: 75-91, Doi : 10.3354/cr01235. Published: SEP 2014.

**CEN-GMGEC-2014-ACL-18** : Libois, Q., G. Picard, L. Arnaud, S. Morin, and E. Brun, 2014 : Modeling the impact of snow drift on the decameter-scale variability of snow properties on the Antarctic Plateau. *Journal of Geophysical Research*, Volume: 119, Pages: 11662-11681, Doi: 10.1002/2014JD022361, Published: OCT 2014.

**GMME-GMEI-GMAP-2014- ACL-19** : Lothon, M., Lohou, F., Pino, D., Couvreur, F., Pardyjak, E. R., Reuder, J., Vilà-Guerau de Arellano, J., Durand, P., Hartogensis, O., Legain, D., Augustin, P., Gioli, B., Faloon, I., Yagüe, C., Alexander, D. C., Angevine, W. M., Bargain, E., Barrié, J., Bazile, E., Bezombes, Y., Blay-Carreras, E., van de Boer, A., Boichard, J. L., Bourdon, A., Butet, A., Campistron, B., de Coster, O., Cuxart, J., Dabas, A., Darbieu, C., Deboudt, K., Delbarre, H., Derrien, S., Flament, P., Fourmentin, M., Garai, A., Gibert, F., Graf, A., Groebner, J., Guichard, F., Jimenez Cortes, M. A., Jonassen, M., van den Kroonenberg, A., Lenschow, D. H., Magliulo, V., Martin, S., Martinez, D., Mastrorillo, L., Moene, A. F., Molinos, F., Moulin, E., Pietersen, H. P., Piquet, B., Pique, E., Román-Cascón, C., Rufin-Soler, C., Saïd, F., Sastre-Marugán, M., Seity, Y., Steeneveld, G. J., Toscano, P., Traullé, O., Tzanos, D., Wacker, S., Wildmann, N., and Zaldei, A.: The BLLAST field experiment: Boundary-Layer Late Afternoon and Sunset Turbulence, *Atmospheric Chemistry and physics*, Volume: 14, Issue: 20, Pages: 10931-10960, Doi : 10.5194/acp-14-10931-2014. Published: 2014.

**GMEI-GMAP-2014-ACL-20** : Martinet P., L. Lavanant, N. Fourrié, F. Rabier, A. Gambacorta : Evaluation of a revised IASI channel selection for cloudy retrievals with a focus on the Mediterranean basin. *Quarterly journal of the Royal Meteorological Society*, Volume: 140, Issue: 682, Pages: 1563-1577, Part: A, Doi : 10.1002/qj.2239. Published: JUL 2014.

**GMEI-GMAP-2014-ACL-21** : Martinet P., N. Fourrié, Y. Bouteloup, E. Bazile and F. Rabier, 2014 : Toward the improvement of short-range forecasts by the analysis of cloud variables from IASI radiances. *Atmospheric Sciences Letters*, Volume: 15, Issue: 4, Pages: 342-347, Doi: 10.1002/asl2.510. Published: OCT-DEC 2014.

**GMME-GMAP-2014-ACL-22** : Parrens, M., J.-F. Mahfouf, A. Barbu, and J.-C. Calvet: Assimilation of surface soil moisture into a multilayer soil model: design and evaluation at local scale. *Hydrology and Earth Systems Sciences*, Volume: 18, Issue: 2, Pages: 673-689, Doi : 10.5194/hess-18-673-2014. Published: 2014.

**GMME-GMGEC-2014- ACL-23** : Parrens, M., J.-C. Calvet, P. de Rosnay, and B. Decharme: Benchmarking of L-band soil microwave emission models. *Remote Sensing Environment*, Volume: 140, Pages: 407-419, Doi : 10.1016/j.rse.2013.09.017. Published: JAN 2014.

**GMME-GMGEC-2014-ACL-24** : Pavlova, I., V. Jomelli, D. Brunstein, D. Grancher, E. Martin, and M. Déqué, 2014 : Debris flow activity related to recent climate conditions in the French Alps: A regional investigation, *Geomorphology*, Volume: 219, Pages: 248-259, Doi:10.1016/j.geomorph.2014.04.025. Published: AUG 15 2014.

**GMGEC-GMME-2014-ACL-25** : Sevault, F., S. Somot, A. Alias, C. Dubois, C. Lebeaupin-Brossier, P. Nabat, F. Adloff, M. Déqué, and B. Decharme, 2014: A fully coupled Mediterranean regional climate system model: design and evaluation of the ocean component for the 1980-2012 period, *TELLUS Series A-Dynamic Meteorology and Oceanography*, Volume: 66, Article Number: 23967, Doi : 10.3402/tellusa.v66.23967. Published: 2014.



**GMGEC-CEN-2014-ACL-26** : Steen-Larsen, H. C., Masson-Delmotte, V., Hirabayashi, M., Winkler, R., Satow, K., Prié, F., Bayou, N., Brun, E., Cuffey, K. M., Dahl-Jensen, D., Dumont, M., Guillevic, M., Kipfstuhl, J., Landais, A., Popp, T., Risi, C., Steffen, K., Stenni, B., and Sveinbjörnsdóttir, A., 2014 : What controls the isotopic composition of Greenland surface snow ?. *Climate of the past*, Volume: 10, Issue: 1, Pages: 377-392, Doi : 10.5194/cp-10-377-2014. Published: 2014.

**CEN-GMME-2014-ACL-27** : Vionnet, V.; E. Martin, V. Masson, G. Guyomarc'h, F. Naaim-Bouvet, A. Prokop, Y. Durand & C. Lac, 2014 : Simulation of wind-induced snow transport and sublimation in alpine terrain using a fully coupled snowpack/atmosphere model. *The Cryosphere*, Volume: 8, Issue: 2, Pages: 395-415, Doi: 10.5194/tc-8-395-2014. Published: MAR 2014.

**GMAP-GMME-2014-ACL-28** : Wattrelot, E., O. Caumont, J.-F. Mahfouf, 2014 : Operational implementation of the 1D+3D-Var assimilation method of radar reflectivity data in the AROME model. *Monthly Weather Review*, Volume: 142, Issue: 5, Pages: 1852-1873, Doi : 10.1175/MWR-D-13-00230.1. Published: MAY 2014.



CNRM/GAME, UMR 3589



# ACLN

**Articles dans des revues avec comité de lecture  
non répertoriées par l'AERES ou dans des bases de données internationales**



# 2014

## GMAP

**GMAP-2014-ACLN-1** : Mahfouf, J.-F., O. Caumont, T. Montmerle, E. Wattrelot and V. Ducrocq, 2014 : Assimilation des données radar dans le modèle AROME. La Météorologie, 83, p42-50.

## GMGEC

**GMGEC-2014-ACLN-1** : Cooper, O. R., D. D. Parrish, J. Ziemke, N. V. Balashov, M. Cupeiro, I. E. Galbally, S. Gilge, L. Horowitz, N. R. Jensen, J.-F. Lamarque, V. Naik, S. J. Oltmans, J. Schwab, D. T. Shindell, A. M. Thompson, V. Thouret, Y. Wang, R. M. Zbinden, 2014 : Global distribution and trends of tropospheric ozone : An observation-based review, Elementa: Science of the Anthropocene, 2: 000029, DOI : 10.12952/journal.elementa.000029.

**GMGEC-2014-ACLN-2** : Ricaud, P., Variabilités de la vapeur d'eau et de la température troposphérique mesurées par le radiomètre micro-onde HAMSTRAD au Dôme C, Antarctique. Partie I : Instrument et Validation, La Météorologie, 2014, N° 84,15-28.

**GMGEC-2014-ACLN-3** : Ricaud, P., Variabilités de la vapeur d'eau et de la température troposphérique mesurées par le radiomètre micro-onde HAMSTRAD au Dôme C, Antarctique. Partie II : Résultats scientifiques, La Météorologie, N° 85, 35-46, DOI : 10.4267/2042/53749.

**GMGEC-2014-ACLN-4** : Seneviratne, S., ..., H. Douville, et al., 2014 : Land processes, forcings, and feedbacks in climate change simulations: The CMIP6 LandMIPs. GEWEX News, 24, 4, 6-10.

**GMGEC-2015-ACLN-5** : Wittwer, C., M. Déqué, D. Fontannaz, A. Roullé et B. Janet, 2015 : Le bassin de la Garonne sous surveillance , Géosciences,19, 78-88.

## GMME

**GMME-2014-ACLN-1** : Lac, C. 2014 : Peut-on prévoir la grêle ? La Météorologie, 87, 34-37, DOI : 10.4267/2042/54334.

**GMME-2014-ACLN-2** : Masson V., Bonhomme M, Salagnac J, Briottet X and Lemonsu A (2014). Solar Panels reduce both global warming and Urban Heat Island. Front. Environ. Sci. 2:14. doi: 10.3389/fenvs.2014.00014

**GMME-2014-ACLN-3** : Masson V., C. Marchadier, L. Adolphe, R. Aguejdad, P. Avner, M. Bonhomme, G. Bretagne, X. Briottet, B. Bueno, C. de Munck, O. Doukari, S. Hallegatte, J. Hidalgo, T. Houet, J. Le Bras, A. Lemonsu, N. Long, M.-P. Moine, T. Morel, L. Nolorgues, G. Pigeon, J.-L. Salagnac, K. Zibouche, 2014 : Adapting cities to climate change : a systemic modelling approach. Urban Climate, Volume 10, Pages 407-429, doi : 10.1016/j.uclim.2014.03.004.

## MULTI-GROUPES

**GMME-GMEI-2014-ACLN-1** : J. Hidalgo, V. Masson and C. Baehr (2014): From daily climatic scenarios to hourly atmospheric forcing fields to force Soil-Vegetation-Atmosphere transfer models. Front. Environ. Sci. 2:40 (2014) DOI: 10.3389/fenvs.2014.00040 Frontiers in Environmental Science Hidalgo J. 2014

**GMAP-GMME-2014-ACLN-2** : Honnert R., V. Masson: How far can we go with a uni-directional turbulence scheme? Frontiers in Atmospheric Sciences, 28 October 2014 | doi: 10.3389/feart.2014.00027 <http://www.frontiersin.org/>



CNRM/GAME, UMR 3589



# ASCL

**Articles dans des revues sans comité de lecture**





# 2014

## GMAP

**GMAP-2014-ASCL-1** : Bazile, E. (2014). GABLS4: An Intercomparison Case to Study the Stable Boundary Layer Over the Antarctic Plateau. Gewex\_newsletter Vol. 24 n04, November 2014, page 4

**GMAP-2014-ASCL-2** : Berre L., G. Desroziers, H. Varella: Operational implementation of flow-dependent background error correlations at Météo-France using a wavelet model and ensemble data assimilation. WMO CAS/JSC WGNE Blue Book, Edited by J. Côté., 2014

**GMAP-2014-ASCL-3** : Chambon P, Meunier L-F, Guillaume F and J-F Mahfouf, 2014: Assessing the impact of the SAPHIR microwave sounder on board Megha-Tropiques into the ARPEGE global model. WMO CAS/JSC WGNE Blue Book, Edited by J. Côté., 2014

**GMAP-2014-ASCL-4** : Mahfouf J.-F., N. Boullot, N. Fourrié, V. Guidard, L.-F. Meunier, P. Moll, and C. Payan: Assimilation of new satellite observations in the Météo-France global 4D-Var data assimilation system. WMO CAS/JSC WGNE Blue Book, Edited by J. Côté., 2014

**GMAP-2014-ASCL-5** : Crevoisier C, C. Clerbaux, V. Guidard, E. Péquignot, F. Pasternak: IASI-NG : un concentré d'innovations technologiques pour l'étude de l'atmosphère terrestre. La Météorologie, n° 86, pp. 3—5.

**GMAP-2014-ASCL-6** : Mahfouf, J.-F. (2014). Advances in model physics and their relevance to satellite data assimilation. Proceedings of the ECMWF Annual Seminar on the assimilation of satellite data, ECMWF, Reading (UK), 3-7 Septembre 2014, 14 pp

**GMAP-2014-ASCL-7** : Pailleux, J.; Geleyn, J.-F.; Hamrud, M.; Courtier, P.; Thépaut, J.-N.; Rabier, F.; Andersson, E.; Burridge, D.; Simmons, A.; Salmond, D.; El Khatib, R.; Fischer, C.: Twenty-five years of IFS/Arpège ECMWF Newsletter - N°141 - Autumn 2014.

**GMAP-2014-ASCL-8** : Payan C., N. Boullot, D. Mékiès: Satellite winds activities at Météo-France, Twelfth International Winds Workshop proceedings, Copenhagen, Denmark, 16-20 June 2014, EUMETSAT P.63, ISSN 1023-0416

## GMGEC

**GMGEC-2014-ASCL-1** : Batté, L., J. García-Serrano, V. Guemas, M. Asif, I. Andreu-Burillo and F.J. Doblas-Reyes, 2014: Seasonal re-forecasts of the winter NAO with EC-Earth. WMO CAS/JSC WGNE Blue Book, Section 6, Published on line.

**GMGEC-2014-ASCL-2** : Déqué, M., J.-P. Pielikev, and E. Maisonave, 2014 : High resolution and seasonal forecast scores with CNRM-CM5. WMO CAS/JSC WGNE Blue Book, Section 6, Published on line.

## GMME

**GMME-2014-ASCL-1** : Seneviratne, S. I., B. van den Hurk, D. Lawrence, G. Krinner, G. Hurtt, H. Kim, C. Derksen, T. Oki, A. Boone, M. Ek, V. Brovkin, P. Dirmeyer, H. Douville, P. Friedlingstein, S. Hagemann, R. Koster, N. de Noblet-Ducoudré and A. Pitman, 2014: Land processes, forcings, and feedbacks in climate change simulations: The CMIP6 LandMIPs. GEWEX News, 24(4), Nov., 2014

## CEN

**CEN-2014-ASCL-1** : Goetz, D., 2014 : Bilan nivo-météorologique de l'hiver 2013-2014. Neige et Avalanches, N°: 147, Pages: 12-14. Published: OCT 2014.



**CEN-2014-ASCL-2** : Guyomarch G., D. Goetz, V. Vionnet, F. Naaim-Bouvet and M. Deschatres, 2014 : Observation of blowing snow events and associated avalanche occurrences. Proceedings de l'ISSW 2014, Banff, Canada, du 28/09/14 au 03/10/14. Published: 2014.

**CEN-2014-ASCL-3** : Lafaysse, M., S. Morin, C. Coléou, M. Vernay, D. Serça, F. Besson, J.-M. Willemet, G. Giraud et Y. Durand, 2014 : Une nouvelle chaîne de modèles numériques pour la prévention du risque d'avalanches sur les montagnes françaises incluant les massifs de moyenne montagne. Neige et Avalanches, N°: 145, Page: 17. Published: APR 2014.

**CEN-2014-ASCL-4** : Morin, S., M. Lafaysse, N. Eckert, C. Coléou et Y. Lejeune, 2014 : Prévisibilité de l'enneigement à l'échéance de quelques semaines à quelques mois. Neige et Avalanches, N°: 145, Page: 39. Published: APR 2014.

**CEN-2014-ASCL-5** : Spandre, P., S. Morin, E. George-Marcelpoil, M. Lafaysse, Y. Lejeune and H. Francois, 2014 : Integrating Snow Management Processes and Practices Into a Detailed Snowpack Model. Relevance, Applications and Prospects. International Snow Science Workshop 2014 Proceedings, Banff, Canada, Pages: 511-518, Published: 2014.

**CEN-2014-ASCL-6** : Vernay M., M. Lafaysse, L. Merindol, G. Giraud and S. Morin, 2014 : Ensemble prediction of avalanche hazard. International Snow Science Workshop 2014 Proceedings, Banff, Canada, Pages: 67-73, Published: 2014.

## MULTI-GROUPES

**CEN-GMGEC-2014-ASCL-1** : Giraud, G., Y. Durand, M. Rousselot, L. Mérindol, I. Dombrowski-Etchevers, M. Déqué, H. Castebrunet et N. Eckert, 2014 : Impact du changement climatique sur l'enneigement et le risque d'avalanche. Neige et Avalanches, N°: 145, Page: 37. Published: APR. 2014.

**GMAP-GMME-2014-ASCL-2** : Seity, Y., Ricard, D., Léger J., Pietrisi M. 2014. Evaluation of increased horizontal and vertical resolutions in AROME–France deterministic forecasts for convective events. ALADIN–HIRLAM Newsl. 2 : 16–19. <http://www.cnrm.meteo.fr/aladin/spip.php?article260>

**CEN-GMAP-2014-ASCL-3** : Vionnet, V., I. Etchevers, L. Auger, A. Colomb, L. Pfitzner, M. Lafaysse and S. Morin, 2014 : Simulation of the Alpine Snowpack Using Meteorological Fields From a Nonhydrostatic Weather Forecast Model. International Snow Science Workshop 2014 Proceedings, Banff, Canada, Pages: 486-490, Published: 2014.



CNRM/GAME, UMR 3589



## **C-INV**

**Conférences données à l'invitation du Comité d'organisation  
dans un congrès national ou international**



# 2014

## GMAP

**GMAP-2014-C-INV-1** : Mahfouf, J.-F. (2014). Advances in model physics and their relevance to satellite data assimilation. ECMWF Annual Seminar on the assimilation of satellite data, 3-7 Septembre 2014, ECMWF, Reading (Royaume Uni)

## GMGEC

**GMGEC-2014-C-INV-1** : Douville H., 2014 : Bridging the gap between CFMIP and CMIP simulations. WCRP workshop on cloud, circulation and climate sensitivity, 24-28 mars 2014, Ringberg.

**GMGEC-2014-C-INV-2** : Douville H., 2014 : Projections of 21st century hydrology. ISSI Workshop on Remote Sensing and Water Resources, 6-10 octobre 2014, Berne.

**GMGEC-2014-C-INV-3** : Planton S., 2014 : Communication of information on future climate change and its impacts on water resources. Colloque « International Conference Water and Energy » organisée par EDF, 29 octobre 2014, Lyon.

**GMGEC-2014-C-INV-4** : Planton S., 2014 : Intégrer et communiquer l'incertitude dans les services climatiques. Table-ronde du Colloque « (In)certitudes et adaptation au changement climatique » organisée par l'IPSL et l'IDDRI, 18 novembre 2014, Meudon.

**GMGEC-2014-C-INV-5** : Planton S., 2014 : Quels sont les principaux changements globaux attendus dans le Grand Sud-Ouest ? Table-ronde du colloque "Eau et changements globaux" organisée par l'Agence de l'eau Adour-Garonne, 28 novembre 2014, Bordeaux.

## GMME

**GMME-2014-C-INV-1** : Calvet, J.-C., Balsamo G., Barbu A., Cescatti A., Lafont S., Maignan F., Papale D., Szczypta C., Szintai B., van den Hurk B.: Impact of weather and climate variability on terrestrial fluxes: integration of EO data into models, World Weather Open Science Conference, Montreal, Canada, August 16-21, 2014.

**GMME-2014-C-INV-2** : Guichard, F. and B. Marticorena 2014: Surface wind and erosion in the Sahel within CAVIARS, EGU General Assembly, 27 Apr - 2 May 2007, Vienna, Austria.



CNRM/GAME, UMR 3589



# C-ACTI

**Communications avec actes dans un congrès international**

# 2014

## GMEI

**GMEI-2013-C-ACTI-1** : Kleczek M., Steeneveld G.J., Paci A., Calmer R., Belleudy A., Canonici J.C., Murguet F. and V. Valette (2014) : Exploring the role of wave drag in the stable stratified oceanic and atmospheric bottom boundary layer in the CNRS-Toulouse (CNRM-GAME) large stratified water flume. In Proceedings of the HYDRALAB IV Joint Transnational Access User Meeting, Lisboa, 2nd-4th July 2014.

**GMEI-2013-C-ACTI-2** : Nycander J., Falahat S., Paci A., L. Bordoio and F. Auclair (2014) : Investigation of internal tides excited by multiple ridges. In Proceedings of the HYDRALAB IV Joint Transnational Access User Meeting, Lisboa, 2nd-4th July 2014.

## GMME

**GMME-2014-C-ACTI-1** : Calvet, J.-C., Barbu, A., Carrer, D., Fairbairn, D., Gelati, E., and Meurey, C. : Cross-cutting validation of satellite products over France through their integration into a land surface model, 4th International Symposium on Recent Advances in Quantitative Remote Sensing, Torrent, Spain, 22-26 september, 2014.

**GMME-2014-C-ACTI-2** : Cimini, D., O. Caumont, U. Löhnert, L. Alados-Arboledas, R. Bleisch, J. Fernández-Gálvez, T. Huet, M. E. Ferrario, F. Madonna, O. Maier, F. Nasir, G. Pace et R. Posada, 2014: A data assimilation experiment of temperature and humidity profiles from an international network of ground-based microwave radiometers. 13th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment (MicroRad 2014), Pasadena, California, 24–27 mar. 2014, California Institute of Technology, DOI : 10.1109/microrad.2014.6878913.

**GMME-2014-C-ACTI-3** : D'Agostino, D., A. Clematis, A. Galizia, A. Quarati, E. Danovaro, L. Roverelli, G. Zereik, D. Kranzlmüller, M. Schiffers, N. gentschen Felde, C. Straube, O. Caumont, E. Richard, L. Garrote, Q. Harpham, H. R. A. Jagers, V. Dimitrijević, L. Dekić, E. Fiori, F. Delogu et A. Parodi, 2014 : The DRIHM project : a flexible approach to integrate HPC, Grid and Cloud resources for hydro-meteorological research. Proc. Int. Conf. for High Performance Computing, Networking, Storage, and Analysis (SC14), Nouvelle-Orléans, LA, 16–21 nov. 2014, résumé no pap377.

**GMME-2014-C-ACTI-4** : Danovaro, E., L. Roverelli, G. Zereik, A. Galizia, D. D'Agostino, A. Quarati, A. Clematis, F. Delogu, E. Fiori, A. Parodi, C. Straube, N. Felde, Q. Harpham, B. Jagers, L. Garrote, L. Dekic, M. Ivkovic, E. Richard et O. Caumont, 2014 : Setting up an hydro-meteo experiment in minutes : the DRIHM e-infrastructure for hydro-meteorology research. Proc. 10 th IEEE Int. Conf. EScience (IEEE eScience 2014), Guarujá, Brésil, 20–24 oct. 2014, résumé no 79, DOI : 10.1109/escience.2014.40.

**GMME-2014-C-ACTI-5** : Galizia, A., D. D'Agostino, A. Quarati, G. Zereik, L. Roverelli, E. Danovaro, A. Clematis, E. Fiori, F. Delogu, A. Parodi, C. Straube, N. Felde, M. Schiffers, D. Kranzlmüller, Q. Harpham, B. Jagers, L. Garrote, V. Dimitrijevic, L. Dekic, O. Caumont et E. Richard, 2014 : Towards an interoperable and distributed e-Infrastructure for Hydro-Meteorology: the DRIHM project. Proc. 7 th Int. Congress on Environmental Modelling and Software, San Diego, Californie, 15–19 juin 2014, International Environmental Modelling and Software Society (iEMSS), URL : <http://www.iemss.org/society/index.php/iemss-2014-proceedings>.

**GMME-2014-C-ACTI-6** : Llasat, M. C., O. Caumont, I. Flores, L. Garrote, J. Gilabert, M.Llasat-Botija, R. Marcos, O. Nuissier, E. Richard et T. Rigo, 2014 : The 6 November 2011 flood event in Catalonia: Analysis using the DRIHM infrastructure. Mediterranean meeting on "Monitoring, modelling, early warning of extreme events triggered by heavy rainfall", Cosenza, Italie, 26–27 juin 2014, Université de Calabre.





**GMME-2014-C-ACTI-7** : Omrani, H., P. Drobinski, B. Jourdier, C. Lebeau-pin Brossier, K. Béranger, S. Mailler, S. Bastin, T. Arsouze, 2014 : Investigation on the offshore wind energy potential over the North Western Mediterranean Sea in a regional climate system model. Preprints in 5th International Renewable Energy Congress, 25-27 March 2014, Hammamet, Tunisia.

## MULTI-GROUPES

**GMME-GMAP-2014-C-ACTI -1** : Ricard D., S. Malardel, Y. Seity, J. Léger, M. Pietrisi. Impact of kilometeric resolution and a modified semi-Lagrangian scheme on convective precipitation in the nonhydrostatic model AROME. 6th International Workshop on Global Cloud Resolving Modeling and 3rd International Workshop on Nonhydrostatic Numerical Models, Kobe, Japan, 24-26 September 2014.



CNRM/GAME, UMR 3589



# AP

**Autres productions : bases de données, logiciels enregistrés, traductions, comptes rendus d'ouvrages, rapports de fouilles, guides techniques, catalogues d'exposition, rapports intermédiaires de grands projets internationaux, etc.**



# 2014

## GMAP

**GMAP-2014-AP-2** : Guedj, S., Guidard, V., Mahfouf, J.-F. (2014). Preliminary studies towards the use of IASI PC products in the Météo-France global data assimilation system. EUMETSAT NWP SAF AS-14-P01 report, 20 pp.

**GMAP-2014-AP-3** : Guedj, S., Guidard, V., Ménétrier, B., Mahfouf, J.-F., & Rabier, F. (2014). Future benefits of high-density radiance data from MTG-IRS in the AROME fine-scale forecast model. EUMETSAT Final Report, 34 pp.

**GMAP-2014-AP-4** : Guidard, V., 2014 : "Contribution des observations satellitaires à l'initialisation des modèles météorologiques à mésoéchelle." par Vincent Guidard (GMAP) le 23 juin 2014. HDR

**GMAP-2014-AP-6** : Zamo M., O. Mestrea, P. Arbogast, O. Pannekoucke: A benchmark of statistical regression methods for short-term forecasting of photovoltaic electricity production. Solar Energy , vol. 105, pp. 804-816 ISSN 0038-092X CODEN SRENA4

## GMGEC

**GMGEC-2014-AP-7** : Ouzeau, G., M. Déqué, M. Jouini, S. Planton, R. Vautard, et M. Vrac, 2014 : Scénarios régionalisés. Le climat de la France au XXI<sup>e</sup> siècle, Volume 4. Rapport de la mission Jean Jouzel, février 2012, Ministère de l'Écologie, du Développement Durable et de l'Énergie, 63 pp.

**GMGEC-2014-AP-8** : Pascual A., E. Vidal-Vijande, S. Ruiz, S. Somot, and V. Papadopoulos, 2014 : Spatio-temporal variability of the surface circulation in the Western Mediterranean: a comparative study using altimetry and modelling, In: The Mediterranean Sea: Temporal Variability and Spatial Patterns. Eds. Borzelli G.L., M. Gačić, P. Lionello, and P. Malanotte-Rizzoli, AGU Monograph Series, 5-23, DOI: 10.1002/9781118847572.

**GMGEC-2014-AP-9** : Planton, S., et G. Ouzeau, 2014 : Nouveaux scénarios climatiques à l'échelle française. Dans Dossier n° 19 club ViTeCC, 10 avril 2014, CDC Climat, Paris.

## GMME

**GMME-2014-AP-3** : Kovats, R.S., R. Valentini, L.M. Bouwer, E. Georgopoulou, D. Jacob, E. Martin , M. Rounsevell, and J.-F. Soussana, 2014: Europe. In: Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Barros, V.R., C.B. Field, D.J. Dokken, M.D. Mastrandrea, K.J. Mach, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1267-1326.



CNRM/GAME, UMR 3589



# THESES

# 2014

## GMAP

**GMAP-2014-AP-1** : Drouard, M., 2014 : "Influence de l'écoulement atmosphérique du pacifique nord sur l'oscillation nord-atlantique" le jeudi 30 octobre 2014 à 14h en salle Joël Noilhan. Thèse.

**GMAP-2014-AP-5** : Ménétrier, B., 2014 : "Utilisation d'une assimilation d'ensemble pour modéliser des covariances d'erreur d'ébauche dépendantes de la situation météorologique à échelle convective" le jeudi 3 juillet 2014. Thèse

## GMGEC

**GMGEC-2014-AP-1** : Carminati, F., 2014 : "Étude de la variabilité de la vapeur d'eau dans la haute troposphère-basse stratosphère tropicale et du monoxyde de carbone troposphérique à partir d'observations spatiales" le vendredi 14 novembre 2014 à 14h en salle Joël Noilhan.

**GMGEC-2014-AP-2** : Grellier, L., 2014 : "Étude et modélisation de l'impact sur la chimie atmosphérique des espèces halogénées émises lors de l'éruption du Mont Etna en mai 2008" le 26 novembre.

**GMGEC-2014-AP-3** : Hache, E., 2014 : « Apport de la bande de Chappuis pour la mesure de l'ozone depuis un satellite géostationnaire pour la surveillance de la qualité de l'air » le 19 septembre 2014 au CIC. Accès au résumé.

**GMGEC-2014-AP-4** : Hopuare, M., 2014 : "Changement climatique en Polynésie Française : détection des changements observés et évaluation des projections" le 25 septembre 2014. Accès au résumé et au mémoire.

**GMGEC-2014-AP-5** : Joetzjer, E., 2014 : "Causes, impacts et projections des sécheresses en Amazonie : une étude numérique des processus et des incertitudes" le mercredi 3 décembre 2014 à 14h en salle Joël Noilhan.

**GMGEC-2014-AP-6** : Nabat, P., 2014 : "Interactions aérosols-rayonnement-nuages et variabilité climatique en Méditerranée : approche par la modélisation régionale couplée" le 9 octobre 2014.

**GMGEC-2014-AP-10** : Sic, B., 2014 : "Improvement of aerosol representation in a chemical-transport model : Modelling and data assimilation" le 28 novembre 2014.

## GMME

**GMME-2014-AP-2** : Canal, N., 2014 : "Application à l'agriculture de la prévision saisonnière et évaluation à l'échelle de la France", Thèse de l'Université de Toulouse, soutenue le 30 septembre 2014.

**GMME-2014-AP-4** : Liu, S., 2014 : "Développement d'un albedo de surface journalier dépendant de l'humidité du sol : étude d'impact dans la plateforme de modélisation SURFEX sur la France" le 11 juin 2014.

## CEN

**CEN-2014-AP-1** : Calonne, N., 2014 : Physique des métamorphoses de la neige sèche: de la microstructure aux propriétés macroscopiques. Thèse soutenue à Grenoble le 14 novembre 2014.

**CEN-2014-AP-2** : Hagenmuller, P., 2014 : Modélisation du comportement mécanique de la neige à partir d'images microtomographiques. Thèse soutenue à Grenoble le 17 décembre 2014.

**CEN-2014-AP-4** : Phan, X.V., 2014 : Télédétection sur le manteau neigeux et étude de son évolution temporelle en utilisant des données radar polarimétriques. Thèse soutenue à Grenoble le 21 mars 2014.

**CEN-2014-AP-5** : Wang, X., 2014 : Décomposition volumique d'images pour l'étude de la microstructure de la neige. Thèse soutenue à Grenoble le 28 janvier 2014.



CNRM/GAME, UMR 3589



# HDR

## Habilitations à Diriger des Recherches





CNRM/GAME, UMR 3589



# 2014

## GMME

**GMME-2014-AP-1** : Bouttier, F., 2014 : "Modélisation des erreurs de prévision météorologique" le 16 janvier 2014. Mémoire d'habilitation à diriger des recherches. Ecole doctorale de l'université de Toulouse.

## CEN

**CEN-2014-AP-3** : Morin, S., 2014 : Observation and numerical modeling of snow on the ground: use of existing tools and contribution to ongoing developments. HDR soutenue à Grenoble (LGGE) le lundi 8 décembre 2014.