



# **PUBLICATIONS / PRODUCTIONS**

**du laboratoire**

**CNRM/GAME, URA 1357**

**ANNEE 2012**

**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)

# 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...)**

# 2012

## GMAP

**GMAP-2012-ACL-1** : Boisserie, M. and S. Cocke, 2012: Development of a soil moisture analysis for subseasonal forecasting. Part I: Soil moisture validation. Journal of Geophysical Research-Atmospheres, Volume : 117, Article, Number : D10105, DOI : 10.1029/2011JD015977. Published : MAY 16 2012.

**GMAP-2012-ACL-2** : Desroziers, G. and L. Berre: Accelerating and parallelizing minimizations in ensemble and deterministic variational assimilations. Quarterly Journal of Royal Meteorological Society, Volume : 138, Issue : 667, Pages : 1599-1610, DOI : 10.1002/qj.1886. Part : Part b. Published : JUL 2012.

**GMAP-2012-ACL-3** : Haase, J.S., Maldonado-Vargas, J. Rabier, F. Cocquerez, P. Minois, M. Guidard, V. Wyss, P. Johnson, A.V. A proof-of-concept balloon-borne Global Positioning System radio occultation profiling instrument for polar studies. Geophysical Research Letters, Volume : 39, Article Number : L02803, DOI : 10.1029/2011GL049982. Published : JAN 21 2012.

**GMAP-2012-ACL-4** : Hilton, F., R. Armante, T. August, C. Barnet, A. Bouchard, C. Camy-Peyret, V. Capelle, L. Clarisse, C. Clerbaux, P-F. Coheur, A. Collard, C. Crevoisier, G. Dufour, D. Edwards, F. Faijan, N. Fourrié, A. Gambacorta, M. Goldberg, V. Guidard, D. Hurtmans, S. Illingworth, N. Jacquinet-Husson, T. Kerzenmacher, D. Klaes, L. Lavanant, G. Masiello, M. Matricardi, A. McNally, S. Newman, E. Pavelin, S. Payan, E. Péquignot, S. Peyridieu, T. Phulpin, J. Remedios, P. Schlüssel, C. Serio, L. Strow, C. Stubenrauch, J. Taylor, D. Tobin, W. Wolf, and D. Zhou: Hyperspectral Earth Observation from IASI: Five Years of Accomplishments. Bulletin of the American Meteorological Society, Volume : 93, Issue : 3, Pages : 347-+, DOI : 10.1175/BAMS-D-11-00027.1. Published : MAR 2012.

**GMAP-2012-ACL-5** : Massart, S., A. Piacentini and O. Pannekoucke: Importance of using ensemble estimated background error covariances for the quality of atmospheric ozone analyses. Quarterly Journal of Royal Meteorological Society, Volume : 138, Issue : 665, Pages : 889-905, DOI : 10.1002/qj.971. Part: Part b. Published : APR 2012.

**GMAP-2012-ACL-6** : Michel C., G. Rivière, L. Terray et B. Joly: The dynamical link between surface cyclones, upper-tropospheric Rossby wave breaking and the life cycle of the Scandinavian blocking. Geophysical Research Letters, Volume : 39, Article Number : L10806, DOI : 10.1029/2012GL051682. Published : MAY 18 2012.

**GMAP-2012-ACL-7** : Oger N., O. Pannekoucke, A. Doerenbecher and P. Arbogast: Assessing the trajectory influence in adaptive observation Kalman filter sensitivity method. Quarterly Journal of Royal Meteorological Society, Volume : 138, Issue : 664, Pages : 813-825, DOI: 10.1002/qj.950, Part : Part a. Published : APR 2012.

**GMAP-2012-ACL-8** : Oruba, L., G. Lapeyre and G. Rivière: On the Northward Motion of Midlatitude Cyclones in a Barotropic Meandering Jet. Journal of the Atmospheric Sciences, Volume : 69, Issue : 6, Pages : 1793-1810, DOI : 10.1175/JAS-D-11-0267.1. Published : JUN 2012.

**GMAP-2012-ACL-9** : Raynaud, L., L. Berre, G. Desroziers: Accounting for model error in the Météo-France ensemble data assimilation system. Quarterly Journal of Royal Meteorological Society, Volume : 138, Issue : 662, Pages : 249-262, DOI : 10.1002/qj.906. Part: Part a. Published : JAN 2012.

**GMAP-ACL-2012-10** : Raynaud, L. and O. Pannekoucke: Heterogeneous filtering of ensemble-based background-error variances. Quarterly Journal of Royal Meteorological Society, Volume : 138, Issue : 667, Pages : 1589-1598, DOI : 10.1002/qj.1890. Part: Part b. Published : JUL 2012.

**GMAP-ACL-2012-11** : Rivière G., P. Arbogast, G. Lapeyre, and K. Maynard: A potential vorticity perspective on the motion of a mid-latitude winter storm. Geophysical Research Letters, Volume : 39, Article Number : L12808, DOI : 10.1029/2012GL052440. Published : JUN 30 2012.

**GMAP-2012-ACL-12** : Vich, M, Romualdo Romero, Evelyne Richard, Philippe Arbogast, Karine Maynard, 2012: Perturbing the potential vorticity field in mesoscale forecasts of two Mediterranean heavy precipitation events. TELLUS Series A-Dynamic Meteorology and Oceanography, Volume : 64, Article Number : 17224, DOI : 10.3402/tellusa.v64i0.17224, Published : 2012.

**GMAP-2012-ACL-13** : Vincensini A, A. Bouchard, F. Rabier, V. Guidard, N. Fourrié, and O. Traullé: IASI retrievals over Concordia within the framework of the Concordiasi programme in Antarctica. IEEE Transactions on Geoscience and Remote sensing, Volume : 50, Issue : 8, Pages : 2923-2933, DOI : 10.1109/TGRS.2011.2177467. Published : AUG 2012.

## GMEI

**GMEI-2012-ACL-1** : Baumgardner, D., L. Avallone, A. Bansemer, S. Borrmann, P. Brown, U. Bundke, P. Chuang, D. Collins, D. Cziczo, P. Field, M. Gallagher, J.-F. Gayet, A. Heymsfield, A. Korolev, M. Krämer, G. McFarquhar, S. Mertes, O. Möhler, S. Lance, P. Lawson, M. Petters, K. Pratt, G. Roberts, D. Rogers, O. Stetzer, J. Stith, W. Strapp, C. Twohy, and M. Wendisch, 2012 : In Situ, Airborne Instrumentation: Addressing and Solving Measurement Problems in Ice Clouds, Bulletin of the American Meteorological Society, Volume : 93, Issue : 2, Pages : E529-E534, Doi : 10.1175/BAMS-D-11-00123.1. Published : FEB 2012.

**GMEI-2012-ACL-2** : Begue, N., Tulet, P., Chaboureaud, J-P., Roberts, G., Gomes, L., and Mallet, M., Long-range transport of Saharan dust over Northern Europe during EUCAARI 2008 campaign: Evolution of dust optical properties by scavenging. Journal of Geophysical Research-Atmospheres, Volume: 117, Article Number: D17201, DOI: 10.1029/2012JD017611. Published: SEP 5 2012.

**GMEI-2012-ACL-3** : Chazette, P., Dabas, A., Sanak, J., Lardier, M., and Royer, P., 2012 French airborne lidar measurements for Eyjafjallajökull ash plume survey. Atmospheric Chemistry and Physics, Volume: 12, Issue: 15, Pages: 7059-7072, DOI: 10.5194/acp-12-7059-2012, Published: 2012.

**GMEI-2012-ACL-4** : Lei, M. and C. Baehr (2012): Unscented and Ensemble Transform-based Variational Filter. PhysicaD : Nonlinear phenomena 246 (1) 1-14 (2013) DOI : 10.1016/j.physd.2012.11.006

**GMEI-2012-ACL-5** : Mokhtari, M., L. Gomes, P. Tulet and T. Rezoug, 2012 : Importance of the surface size distribution of erodible material: an improvement on the Dust Entrainment And Deposition (DEAD) Model. Geoscientific Model Development, Volume : 5, Issue : 3, Pages : 581-598. Published : 2012.

**GMEI-2012-ACL-6** : Russell, L. M., A. Sorooshian, J. H. Seinfeld, B. A. Albrecht, A. Nenes, L. Ahlm, Y. C. Chen, M. Coggon, J. S. Craven, R. C. Flagan, A. A. Frossard, H. Jonsson, E. Jung, J. Lin, A. R. Metcalf, R. Modini, J. Mülmenstädt, G. C. Roberts, T. Shingler, S. Song, A. Wang, and A. Wonaschütz, Eastern Pacific Emitted Aerosol Cloud Experiment (E-PEACE), DOI : 10.1175/BAMS-D-12-00015, 2012.

**GMEI-2012-ACL-7** : Teurlai M, Huy R, Cazelles B, Duboz R, Baehr C, et al. (2012) Can Human Movements Explain Heterogeneous Propagation of Dengue Fever in Cambodia? Plos Neglected Tropical Diseases, Volume: 6, Issue: 12, Article Number: e1957, DOI: 10.1371/journal.pntd.0001957, Published: DEC 2012.

**GMEI-2012-ACL-8** : Thouron, O., Brenguier J.-L., and F. Burnet, 2012: Supersaturation calculation in large eddy simulation models for prediction of the droplet number concentration, Geosci. Model Dev., 5, 761-772, doi:10.5194/gmd-5-761-2012. Published: 23 May 2012

## GMGEC

**GMGEC-2012-ACL-1** : Alkama, R., M. Kageyama, and G. Ramstein, 2012 : A sensitivity study to global desertification in cold and warm climates: results from the IPSL OAGCM model. *Climate Dynamics*, Volume: 38, Issue: 7-8, Pages: 1629-1647, DOI: 10.1007/s00382-011-1101-6, Published: APR 2012.

**GMGEC-2012-ACL-2** : Barré, J., V.-H. Peuch, J.-L. Attié, L. El Amraoui, W. A. Lahoz, B. Josse, M. Claeysman, and P. Nédélec, 2012 : Stratosphere-troposphere ozone exchange from high resolution MLS ozone analyses, *Atmos. Chem. Phys.*, Volume: 12, Pages: 6129-6144, DOI: 10.5194/acp-12-6129-2012, Published: JUL 2012.

**GMGEC-2012-ACL-3** : Batté, L. and M. Déqué, 2012 : A stochastic method for improving seasonal predictions. *Geophysical Research Letters*, Volume: 39, Article Number: L09707, DOI: 10.1029/2012GL051406, Published: MAY 4 2012.

**GMGEC-2012-ACL-4** : Bellon, G., Stevens, B., 2012 : Using the Sensitivity of Large-Eddy Simulations to Evaluate Atmospheric Boundary Layer Models. *Journal of Atmospheric Sciences*, Volume : 69, Issue : 5, Pages : 1582-1601, Doi : 10.1175/JAS-D-11-0160.1. Published : MAY 2012.

**GMGEC-2011-ACL-5** : Belviso, S., I. Masotti, A. Tagliabue, L. Bopp, P. Brockmann, C. Fichot, G. Caniaux, L. Prieur, J. Ras, J. Uitz, H. Loisel, D. Desailly, S. Alvain, and N. Kasamatsu, 2012: DMS dynamics in the most oligotrophic subtropical zones of the global ocean. *Biochemistry*, Volume : 110, Issue : 1-3, Special Issue : SI, Pages : 215-241, DOI: 10.1007/s10533-011-9648-1. Published : SEP 2012.

**GMGEC-2012-ACL-6** : Beuquier, J., K. Béranger, C. Lebeau-pin-Brossier, S. Somot, F. Sevault, Y. Drillet, R. Bourdallé-Badie, N. Ferry and F. Lyard, 2012 : Spreading of the Western Mediterranean Deep Water after winter 2005 : time scales and deep cyclone transport. *Journal of Geophysical Research-Oceans*, Volume : 117, Article Number : C07022, DOI : 10.1029/2011JC007679. Published : JUL 26 2012.

**GMGEC-2012-ACL-7** : Boisier, J.-P., N. DeNoblet-Ducoudré, A. J. Pitman, F. Cruz, C. Delire, B. J.J.M. van den Kurk, M. K. van der Molen, C. Müller, and A. Voldoire, 2012: Attributing the biogeophysical impacts of Land-Use induced Land-Cover changes on surface climate to specific causes. Results from the first LUCID set of simulations. *Journal of Geophysical Research-Atmospheres*, Volume : 117, Article Number : D12116, DOI : 10.1029/2011JD017106. Published : JUN 30 2012.

**GMGEC-2012-ACL-8** : Cattiaux, J., and P. Yiou, 2012: Contribution of atmospheric circulation to remarkable European temperatures of 2011, *Bulletin of the American Meteorological Society*, in « Explaining Extreme Events of 2011 from a Climate Perspective », Volume : 93, Pages: 1041-1067, DOI :10.1075/BAMSD-12-00021.1, Published : JUL 2012.

**GMGEC-2012-ACL-9** : Charles, E., D. Idier, J. Thiébot, G. Le Cozannet, R. Pedreros, F. Arduin, and S. Planton, 2011: Present wave climate in the Bay of Biscay: spatiotemporal variability and trends from 1958 to 2001. *Journal of Climate*, Volume 25, Issue 6, Pages : 2020-2039, DOI: 10.1175/JCLI-D-11-00086.1, Published: March 2012.

**GMGEC-2012-ACL-10** : Cheaib A., C. Francois, V. Badeau, J. Boe, I. Chuine, C. Delire, E. Dufrene, E. Gritti, M. Legay, C. Page, W. Thuillier, N. Viovy, P. Leadley, 2012 : Climate change impacts on tree ranges: model inter-comparison facilitates understanding and quantification of uncertainty. *Ecology Letters*, Volume : 15, Issue : 6, Pages : 533-544, Doi : 10.1111/j.1461-0248.2012.01764.x. Published : JUN 2012.

**GMGEC-2012-ACL-11** : Chevallier M. and D. Salas-Mélias, 2012 : The Role of Sea Ice Thickness Distribution in the Arctic Sea Ice Potential Predictability : A Diagnostic Approach with a Coupled GCM. *Journal of Climate*, Volume : 25, Issue : 8, Pages : 3025-3038, Doi : 10.1175/JCLI-D-11-00209.1. Published : APR 2012.

**GMGEC-2012-ACL-12** : Corre L., L. Terray, M. Balmaseda, A. Ribes, A. Weaver, 2012 : Can oceanic reanalyses be used to assess recent anthropogenic changes and low-frequency internal variability of upper ocean temperature? *Climate Dynamics*, Volume : 38, Issue : 5-6, Pages : 877-896, Doi : 10.1007/s00382-010-0950-8. Published : MAR 2012.

**GMGEC-2012-ACL-13** : Daloz, A.-S., F. Chauvin, K. Walsh, S. Lavender, D. Abbs and F. Roux, 2012, The ability of general circulation models to simulate tropical cyclones and their precursors over the North Atlantic main development region. *Climate Dynamics*, Volume : 39, Issue : 7-8, Pages : 1559-1576, DOI: 10.1007/s00382-012-1290-7. Published : OCT 2012.

**GMGEC-2012-ACL-14** : Daloz, A.-S., F. Chauvin, and F. Roux 2012: Impact of the configuration of stretching and ocean-atmosphere coupling on tropical cyclone activity in the variable-resolution GCM ARPEGE. *Climate Dynamics*, Volume: 39, Issue: 9-10, Pages: 2343-2359, DOI: 10.1007/s00382-012-1561-3, Published: NOV 2012.

**GMGEC-2012-ACL-15** : De Boissésou, E., V. Thierry, H. Mercier, G. Caniaux, and D. Desbruyères, 2012 : Origin, formation and variability of the Subpolar Mode Water located over the Reykjanes ridge in the ORCA025-G70 simulation. *Journal of Geophysical Research*, Volume: 117, Article Number: C12005, DOI: 10.1029/2011JC007519, Published: DEC 8 2012.

**GMGEC-2012-ACL-16** : De Noblet-Ducoudre, N., Boisier, J.P., Pitman, A., Bonan, G.B., Brovkin, V., Cruz, F., Delire, C., Gayler, V., Van den Hurk, B.J.J.M., Lawrence, P.J., Van der Molen, M.K., Muller, C., Reick, C.H., Strengers, B.J., Voltaire, A., : Determining Robust Impacts of Land-Use-Induced Land Cover Changes on Surface Climate over North America and Eurasia: Results from the First Set of LUCID Experiments : *Journal of Climate*, Volume : 25, Issue : 9, Pages : 3261-3281. Published: MAY 2012.

**GMGEC-2012-ACL-17** : Déqué M., S. Somot , E. Sanchez-Gomez, C.M. Goodess , D. Jacob, G. Lenderink , O.B. Christensen, 2012 : The spread amongst ENSEMBLES regional scenarios : Regional Climate Models, driving General Circulation Models and interannual variability. *Climate Dynamics*, Volume: 38, Issue: 5-6 , Pages: 951-964, Published: MAR 2012. Doi : 10.1007/s00382-011-1053-x.

**GMGEC-2012-ACL-18** : Dubois C., S. Somot, F. Sevault, M. Déqué, B. Lheveder, L.Li, A. Carillo, A. Dell'Aquila, A. Elizalde-Arellano, D.Jacob, E. Scoccimarro, P. Oddo, and S. Gualdi, 2012 : Future projections of the surface heat and water budgets of the Mediterranean sea in an ensemble of coupled atmosphere-ocean regional climate models, *Climate Dynamics*, Volume: 39, Issue: 7-8, Pages: 1859-1884, DOI: 10.1007/s00382-011-1261-4, Published: OCT 2012.

**GMGEC-2012-ACL-19** : Fiore, A.M., V. Naik, D. V. Spracklen, A. Steiner, N. Unger, M. Prather, D. Bergmann, P. J. Cameron-Smith, I. Cionni, W. J. Collins, S. Dalsøren, V. Eyring, G. A. Folberth, P. Ginoux, L. W. Horowitz, B. Josse, J.-F. Lamarque, I. A. MacKenzie, T. Nagashima, F. M. O'Connor, M. Righi, S. T. Rumbold, D. T. Shindell, R. B. Skeie, K. Sudo, S. Szopa, T. Takemura, and G. Zeng, 2012: Global air quality and climate. *Chemical Society Reviews*, Volume: 41, Issue: 19, Pages : 6663-6683, DOI: 10.1039/c2cs35095e, Published: 2012.

**GMGEC-2012-ACL-20** : Geoffroy, O., D. Saint-Martin, and A. Ribes, 2012: Quantifying the sources of spread in climate change experiments. *Geophysical Research Letters*, Volume: 39, Article Number: L24703, DOI: 10.1029/2012GL054172. Published: DEC 21 2012.

**GMGEC-2012-ACL-21** : Guérémy, J.-F., N. Laanaia, and J.-P. Céron, 2012.: Seasonal forecast of French Mediterranean heavy precipitating events linked to weather regimes. *Nat. Hazards Earth Syst. Sci.*, 12, 2389-2398, DOI :10.5194/nhess-12-2389-2012. Published JUL 2012.

**GMGEC-2012-ACL-22** : Iacono-Marziano, G., V. Marécal, M. Pirre, F. Gaillard, J. Arteta, B. Scaillet, and N. T. Arndt, 2012: Gas emissions due to magma-sediment interactions during flood magmatism at the Siberian Traps: gas dispersion and environmental consequences. *Earth and Planetary Science Letters*, Volume: 358, Pages : 308-318, DOI : 10.1016/j.epsl.2012.09.051, Published: DEC 2012.

**GMGEC-2012-ACL-23** : Iacono-Marziano, G., F. Gaillard, B. Scaillet, G. A. Polozov, V. Marécal, M. Pirre, and N. T. Arndt, 2012: Extremely reducing conditions reached during basaltic intrusion in organic matter-bearing sediments. *Earth and Planetary Science Letters*, Volume: 358, Pages : 319-326, DOI : 10.1016/j.epsl.2012.09.052, Published: DEC 2012.

- GMGEC-2012-ACL-24** : Jaumouillé, E., S. Massart, A. Piacentini, D. Cariolle, and V.-H. Peuch, 2012: Impact of a time-dependent background error covariance matrix on air quality analysis. Geoscientific Model Development, Volume: 5, Issue: 5, Pages: 1075-1090, DOI: 10.5194/gmd-5-1075-2012, Published: SEP 2012.
- GMGEC-2012-ACL-25** : Joly, M. and V.-H. Peuch (2012). Objective classification of air quality monitoring sites over Europe. Atmospheric Environment, Volume : 47, Pages : 111-123, Published: FEB 2012.
- GMGEC-2012-ACL-26** : Jorda, G., Gomis, D., Alvarez-Fanjul, E., Somot, S., 2012: Atmospheric contribution to Mediterranean and nearby Atlantic sea level variability under different climate change scenarios. Global and Planetary Change, Volume : 80-81, Pages : 198-214, Doi : 10.1016/j.gloplacha.2011.10.013. Published : JAN 2012.
- GMGEC-2012-ACL-27** : Krysztofiak, G., V., Catoire, G., Poulet, V. Marécal, M., Pirre, F., Louis, S., Canneaux, and B. Josse Detailed modeling of the atmospheric degradation mechanism of very-short lived brominated species. Atmospheric Environment, Volume: 59, Pages: 514-532, DOI: 10.1016/j.atmosenv.2012.05.026. Published: NOV 2012.
- GMGEC-2012-ACL-28** : Kukkonen, J., T. Olsson, D. M. Schultz, A. Baklanov, T. Klein, A. I. Miranda, A. Monteiro, M. Hirtl, V. Tarvainen, M. Boy, V.-H. Peuch, A. Poupkou, I. Kioutsioukis, S. Finardi, M. Sofiev, R. Sokhi, K. E. J. Lehtinen, K. Karatzas, R. San José, M. Astitha, G. Kallos, M. Schaap, E. Reimer, H. Jakobs, and K. Eben: A review of operational, regional-scale, chemical weather forecasting models in Europe. Atmospheric Chemistry and Physics, Volume: 12, Issue: 1, Pages: 1-87, DOI: 10.5194/acp-12-1-2012. Published: 2012.
- GMGEC-2012-ACL-29** : Lacressoniere, G., V.-H. Peuch, J. Arteta, B. Josse, M. Joly, V. Marecal, D. Saint-Martin, M. Deque, and L. Watson, 2013 : How realistic are air quality hindcasts driven by forcings from climate model simulations? Geoscientific Model Development, Volume : 5, Pages : 1565-1587, DOI:10.5194/gmd-5-1565-2012. Published DEC 2012.
- GMGEC-2012-ACL-30** : Lahoz, W.A., V.-H. Peuch, J. Orphal, J.-L. Attié, K. Chance, X. Liu, D. Edwards, H. Elbern, J.-M. Flaud, M. Claeysman, and L. El Amraoui: 2012 : Monitoring air quality from space: the case for the geostationary platform, Bull. Am. Meteorol. Soc., Volume: 93, Issue: 2, Pages: 221-233, DOI: 10.1175/BAMS-D-11-00045.1, Published: FEB 2012.
- GMGEC-2012-ACL-31** : Lintner, B. R., G. Bellon, A. H. Sobel, D. Kim, and J. D. Neelin, 2012: Implementation of the Quasi-equilibrium Tropical Circulation Model 2 (QTCM2): Global simulations and convection sensitivity to free tropospheric moisture. Journal of Advances in Modeling Earth Systems, 4, M12002, doi:10.1029/2012MS000174, Publication: DEC 2012.
- GMGEC-2012-ACL-32** : Marécal, V., M. Pirre, G. Krysztofiak, P. D. Hamer and B. Josse, 2012 : What do we learn about bromoform transport and chemistry in deep convection from fine scale modelling ? Atmospheric Chemistry and Physics, Volume: 12, Issue: 14, Pages: 6073-6093, DOI: 10.5194/acp-12-6073-2012. Published: 2012.
- GMGEC-2012-ACL-33** : Ménégos M., A. Voltaire, H. Teysseire, D. Salas y Melia, V.H. Peuch, and I. Goutevin, 2012 : How does the atmospheric variability drive the aerosol residence time in the Arctic region? 2012 : TELLUS Series B-Chemical and Physical Meteorology, Volume: 64, Article Number: 11596, DOI: 10.3402/tellusb.v64i0.11596. Published: 2012.
- GMGEC-2012-ACL-34** : Menkes, C. E., M. Lengaigne, P. Marchesio, N. C. Jourdain, E. M. Vincent, J. Lefèvre, F. Chauvin and J.-F. Royer, 2012: Comparison of tropical cyclogenesis indices on seasonal to interannual timescales, Climate Dynamics, Volume 38, Numbers 1-2, Pages: 301-321, DOI: 10.1007/s00382-011-1126-x. Published: JAN 2012.
- GMGEC-2012-ACL-35** : Meyssignac, B., D. Salas y Melia, M. Becker, W. Llovel, and A. Cazenave, 2012: Tropical Pacific spatial trend patterns in observed sea level: internal variability and/or anthropogenic signature ? Climate of The Past, Volume: 8, Issue: 2, Pages: 787-802, DOI: 10.5194/cp-8-787-2012. Published: AVR 2012.



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**GMGEC\_2012\_ACL-38** : Nabat, P., F. Solmon, M. Mallet, J.F. Kok, and S. Somot, 2012 : Dust emission size distribution impact on aerosol budget and radiative forcing over the Mediterranean region: a regional climate model approach, *Atmospheric Chemistry and Physics*, Volume : 12, Pages: 10545-10567, DOI :10.5194/acp-12-10545-2012, Published: NOV 2012.

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# ASCL

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# C-INV

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## GMAP

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**GMAP-2012-C-INV-2** : Desroziers G.: Diagnosis and specification of observation errors. Workshop on observation errors (ERA-CLIM) , Vienne – Autriche, 19-20 avril 2012

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**GMAP-2012-C-INV-4** : Guidard, V. : "Lumière et atmosphère : le blanc de la vie vu de l'espace". Colloque d'ALBUS à CANDIDUS , Montauban, 09/03/2012.

**GMAP-2012-C-INV-5** : Michel, Y.: Some developments for data assimilation at convective scale. NCAR Seminar, Boulder CO USA, Juillet 2012.

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## GMEI

**GMEI-2012-C-INV-1** : Paci, A. et Y. Dossmann : Ondes de gravité internes générées sur une topographie au laboratoire : marée interne et ondes orographiques, ENS Lyon, France, 22 mai 2012.

**GMEI-2012-C-INV-2** : Paci, A. : CNRM-GAME stratified water flume : A few laboratory studies of the atmospheric boundary layer and topographic internal gravity waves, Institute of Meteorology and Geophysics, University of Vienna, Autriche, 24 avril 2012.

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# C-ACTI

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# 2012

## GMAP

**GMAP-2012-C-ACTI-1** : Faijan, F., L. Lavanant and F. Rabier: Towards the use of cloud microphysical properties to simulate IASI spectra. ITSC conference, Toulouse, 21-27 mars 2012

**GMAP-2012-C-ACTI-2** : Fourrié N., V. Guidard, F. Rabier, T. Perttula and T. Pangaud : Use of cloudy radiances for NWP and retrieval of cloud parameters from IASI over Antarctica. ITSC conference, Toulouse, 21-27 mars 2012.

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**GMAP-2012-C-ACTI-12** : Martinet P., N. Fourrié, F. Rabier, V. Guidard, T. Montmerle, P. Brunel, L. Lavanant: Conférence Eumetsat: New developments for the use of microphysical variables for the assimilation of IASI radiances in convective scale models. 3 au 7 Septembre 2012 à Sopot, Pologne.

**GMAP-2012-C-ACTI-13** : Montmerle, T., E. Wattrelot and C. Geijo: Operational assimilation of radar data at convective scale in AROME France : current status and international cooperations. 7th European Conference on Radar in Meteorology and Hydrology (ERAD) , 24-29 juin, Toulouse, France.

**GMAP-2012-C-ACTI-14** : Payan, C. : Satellite winds activities at Météo France, 11th International Winds Workshop, Auckland, New-Zealand 20-24 Feb 2012

**GMAP-2012-C-ACTI-15** : Saint-Ramond N, A. Doerenbecher, F. Rabier, V. Guidard : Forecast sensitivity to satellite observations at Météo-France. Poster. ITSC conference, Toulouse, 21-27 mars 2012

**GMAP-2012-C-ACTI-16** : Vincensini, A., N. Fourrié, F. Rabier and V. Guidard : Data assimilation of IASI radiances over land. ITSC conference, Toulouse, 21-27 mars 2012

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**CEN-2012-AP-12** : Karbou, F. and J.-F. Mahfouf, 2012 : Modelling the surface emissivity to assimilate SSMS observations over land. International TOVS conference ITSC-18, Toulouse, Mars 2012.

**CEN-2012-AP-13** : Karbou, F., 2012 : The assimilation of surface sensitive microwave observations over land surfaces. 92nd American Meteorological Society Annual Meeting, Louisiane, USA, 22-26 Janvier 2012 (présentation donnée par J.-F. Mahfouf suite à une incapacité de déplacement).

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**CEN-2012-AP-16** : Lafaysse M., B. Hingray, A. Mezghani, J. Gailhard and L. Terray, 2012 : Statistical Downscaling Models of Meteorological Variables for Climate Change Impact Studies. Temporal Transferability and Uncertainties in Future Hydrological Projections. AMS Annual Meeting J19.5, New Orleans, USA, talk.

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**CEN-2012-AP-18** : Lessard-Fontaine, A., S. Allain, J.-P. Dedieu and Y. Durand, 2012 : Multi-temporal dry and wet snow mapping in alpine context using polarimetric radarsat-2 time-series. IGARSS 2012. IEEE Symposium, Munich, 22-27 July 2012.

**CEN-2012-AP-19** : Libois, Q., G. Picard, L. Arnaud, M. Dumont, C. M. Carmagnola and S. Morin, 2012 : Influence of snow grain shape on the penetration depth of light within a snowpack. Geophysical Research Abstracts, 13, EGU2012-9362, poster.

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**CEN-2012-AP-21** : Morin, S., F. Domine, A.-S. Taillandier, E. Brun, N. Calonne, M. Lafaysse and W. Simpson, 2012 : Measurements and simulations of the vertical profile of snow permeability at Fairbanks, Alaska. IGS Symposium on Seasonal Snow and Ice, Lahti Finland, May 2012, poster.

**CEN-2012-AP-22** : Naaïm, M. and Y. Durand, 2012 : Dense Avalanche Friction Coefficients : Influence of Nivological Parameters. ISSW 2012, Anchorage.

**CEN-2012-AP-23** : Naaïm-Bouvet, F. H. Bellot, K. Nishimura, C. Genthon, C. Parlerme and G. Guyomarc'h, 2012 : How to detect snow fall occurrence during blowing snow event ? . ISSW 2012, Anchorage, Poster.

**CEN-2012-AP-24** : Phan, X.-V, L. Ferro-Famil, M. Gay, Y. Durand, M. Dumont and G. d'Urso, 2012 : Multilayer snowpack backscattering model and assimilation of TERRASAR-X satellite data. IGARRS 2012, IEEE Symposium, Munich, 22-27 July 2012, poster.

**CEN-2012-AP-25** : Vikhamar-Schuler, D., S. Morin, E. Brun and K. Müller, 2012 : Snow modeling using SURFEX with the CROCUS snow scheme for Norway. IGS Symposium on Seasonal Snow and Ice, Lahti Finland, May 2012, poster.

## MULTI-GROUPES

**GMGEC-GMME-CEN-2012-AP-1** : Brun, E., V. Vionnet, B. Decharme, F. Karbou, Y. Peings, S. Morin and R. Valette, 2012 : Simulation of northern Eurasian local daily snow depth, mass and density using a detailed snowpack model and meteorological reanalyses. IGS Symposium on Seasonal Snow and Ice, Lahti Finland, May 2012, talk.

**GMGEC-GMME-2012-AP-2** : Habets F., J. Boé, M. Déqué, A. Ducharne, S. Gascoin, A. Hachour, E. Martin, C. Pagé, E. Sauquet, L. Terray, D. Thiéry, L. Oudin, P. Vienneot and S. Therry, 2011 : Impact du changement climatique sur les ressources en eau du bassin de la Seine, Collections du programme du PIREN-Seine, Agence de l'eau Seine-Normandie, 47 pages.

# THESES

# 2012

## GMAP

**GMAP-2012-AP-2** : Brousseau, P., 2012 : "Propagation de l'information observée dans le système d'assimilation et le modèle atmosphérique Arome" le 9 juillet 2012.

**GMAP-2012-AP-3** : Faijan, F., 2012 : "Vers une meilleure utilisation des observations du sondeur IASI pour la restitution des profils atmosphériques en conditions nuageuses" le 21 novembre 2012.

**GMAP-2012-AP-4** : Michel, C., 2012 : "Rôle du déferlement des ondes de Rossby dans la variabilité climatique aux latitudes tempérées" le 26 octobre 2012.

## GMEI

**GMEI-2012-AP-13** : Dossmann, Y., 2012 : "Ondes internes générées sur une dorsale océanique : du laboratoire à l'océan" le 27 septembre 2012.

**GMEI-2012-AP-21** : Mokthari, M., 2012 : "Amélioration de la prise en compte des aérosols terrigènes dans les modèles atmosphériques à moyenne échelle" le 20 décembre 2012.

## GMGEC

**GMGEC-2012-AP-1** : Barre, J., 2012 : "Etudes par assimilation de données satellites au limbe et au nadir dans un modèle de chimie-transport" le 19 novembre 2012.

**GMGEC-2012-AP-2** : Chevalier, M., 2012 : "Prévisibilité saisonnière de la glace de mer de l'océan Arctique" le 7 décembre 2012.

**GMGEC-2012-AP-6** : Lacressonnière, G., 2012 : "Etude par modélisation numérique de la qualité de l'air en Europe dans les climats actuel et futur" le 19 décembre 2012.

**GMGEC-2012-AP-8** : Oueslati, B., 2012 : "Interaction entre convection nuageuse et circulation de grande échelle dans les tropiques" le 10 décembre 2012.

**GMGEC-2012-AP-9** : Ouzeau, G., 2012 : "Influence de la stratosphère sur la variabilité et la prévisibilité climatique" le 28 novembre 2012.

**GMGEC-2012-AP-15** : Vergnes, J.P., 2012 : "Développement d'une modélisation hydrologique incluant la représentation des aquifères : évaluation sur la France et à l'échelle globale" le 14 décembre 2012.

## GMME

**GMME-2012-AP-5** : Honnert, R., 2012 : "Quelle turbulence dans les modèles atmosphériques à l'échelle kilométrique ?" Thèse de l'Université de Toulouse soutenue le 22 octobre 2012.

**GMME-2012-AP-8** : Pantillon, F. Transition extra-tropicale d'ouragans en Atlantique Nord et impact sur la prévisibilité d'événements extrêmes en Méditerranée, Thèse de l'Université de Toulouse soutenue le 24 septembre 2012 (co-direction : LA-GAME)

**GMME-2012-AP-9** : Singla, Stéphanie, 2012 : "La prévisibilité des ressources en eau à l'échelle saisonnière en France". Thèse de l'Université de Toulouse soutenue le 13 novembre 2012.

**GMME-2012-AP-10** : Szczypta, Camille, 2012 : "Hydrologie spatiale pour le suivi des sécheresses du bassin méditerranéen", Thèse de l'Université de Toulouse soutenue le 24 septembre 2012.

**GMME-2012-AP-11** : Vié, Benoît, 2012 : "Méthodes de prévision d'ensemble pour l'étude de la prévisibilité à l'échelle convective des épisodes de pluies intenses en Méditerranée" Thèse de l'Université Paris-est soutenue le 29 novembre 2012.

**GMME-2012-AP-12** : Vionnet, Vincent, 2012 : "Etudes du transport de la neige en conditions alpines : observations et simulations à l'aide d'un modèle couplé atmosphère/manteau neigeux". Thèse de l'Université Paris-Est soutenue le 30 novembre 2012.

# HDR

## Habilitations à Diriger des Recherches

# 2012

## GMAP

**GMAP-2012-AP-1** : Balsamo, G. : Apport de la modélisation et de l'assimilation de données pour la caractérisation des surfaces continentales en prévision numérique du temps. 30 novembre 2012

**GMAP-2012-AP-5** : Montmerle, T., 2012 : "Assimilation des données à moyenne échelle pour l'étude des systèmes précipitants" le 27 janvier 2012.

**GMAP-2012-AP-6** : Pannekoucke O.: Dynamique Et Modelisation De L'information Dans Les Modeles Meteorologiques. 15 Novembre 2012

**GMAP-2012-AP-8** : Rivière, G., 2012 : "Dynamique des dépressions des latitudes tempérées et leur rôle dans la circulation générale de l'atmosphère" le 25 janvier 2012.