



## **PUBLICATIONS / PRODUCTIONS**

**du laboratoire**

**CNRM/GAME, UMR 3589**

**2009 – 2014 (1<sup>er</sup> semestre)**

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...)**

# 2009

## GMAP

**GMAP-2009-ACL-1** : Argence S., Richard E., Lambert D., Arbogast Ph., 2009 ; Summer precipitation in the Vosges Black Forest region : pre-COPS investigations. *Meteorology and Atmospheric Physics*, Volume : 103, Issue : 1-4, Pages : 105-113, Published: MAR 2009. Doi : 10.1007/s00703-008-0328-1.

**GMAP-2009-ACL-2** : Argence S., D. Lambert, E. Richard, J-P. Chaboureau, P. Arbogast, K. Maynard 2009 ; Improving the numerical prediction of a cyclone in the Mediterranean by local potential vorticity modifications. *Quarterly Journal of the Royal Meteorological Society*, Volume : 135, Issue : 641, Pages : 865-879. Published: APR 2009. Doi : 10.1002/qj.422.

**GMAP-2009-ACL-3** : Desroziers G., L. Berre, V. Chabot and B. Chapnik: A posteriori diagnostics in an ensemble of perturbed analyses. *Monthly Weather Review*, 137, 3420-3436. doi: 10.1175/2009MWR2778.1.

**GMAP-2009-ACL-4** : Gérard L., J.-M. Piriou, R. Brozkova, J.-F. Geleyn, D. Banciu: Cloud and precipitation parameterization in a meso-gamma scale operational weather prediction model. *Monthly Weather Review*, 137, 3960-3977. doi: 10.1175/2009MWR2750.1.

**GMAP-2009-ACL-5** : Gilet J.-B., M. Plu, G. Rivière: Nonlinear baroclinic dynamics of surface cyclones crossing a zonal jet. *Journal of Atmospheric Sciences*, Volume : 66, Issue : 10, Pages : 3021-3041, Published : OCT 2009. Doi : 10.1175/2009JAS3086.1.

**GMAP-2009-ACL-6** : Joly A. et L. Descamps : La prévision et l'utilisation des incertitudes en météorologie. *La Houille Blanche*, Volume : 6, Pages : 42–51. Doi : 10.1051/lhb/2009076.

**GMAP-2009-ACL-7** : Montmerle T. and C. Faccani: Mesoscale assimilation of radial velocities from Doppler radar in a pre-operational framework. *Monthly Weather Review*, Volume : 137, Issue : 6, Pages : 1939-1953, Published : JUN 2009.

**GMAP-2009-ACL-8** : Pangaud T., N. Fourrié, V. Guidard, M. Dahoui, F. Rabier: Assimilation of AIRS radiances affected by mid to low-level clouds. *Monthly Weather Review*, 137, 4276-4292.

**GMAP-2009-ACL-9** : Pannekoucke O.: Heterogeneous correlation modelling based on the wavelet diagonal assumption and on the diffusion operator. *Monthly Weather Review*, Volume : 137, Issue : 9, Pages : 2995-3012, Published : SEP 29 2009. Doi : 10.1175/2009MWR2783.1.

**GMAP-2009-ACL-10** : Poli P., P. Moll, D. Puech, F. Rabier, and S.B. Healy : Quality control, error analysis, and impact assessment of FORMOSAT-3/COSMIC in numerical weather prediction. *Terrestrial, Atmospheric and Oceanic Sciences*, Volume : 20, Issue : 1, Pages : 101-113, Published : FEB 2009. Doi : 10.3319/TAO.2008.01.21.02(F3C).

**GMAP-2009-ACL-11** : Raynaud L., L. Berre , and G. Desroziers: Objective filtering of ensemble-based background-error variances. *Quarterly Journal of the Royal Meteorological Society*, Volume : 135, Issue : 642, Pages : 1177-1199, Part : Part A, Published : JUL 2009. Doi : 10.1002/qj.438.

**GMAP-2009-ACL-12** : Rivière G.: Effect of latitudinal variations in low-level baroclinicity on eddy life cycles and upper-tropospheric wave-breaking processes. *Journal of the Atmospheric Sciences*, Volume : 66, Issue : 6, Pages : 1569-1592, Published : JUN 2009. Doi : 10.1175/2008JAS2919.1.

**GMAP-2009-ACL-13** : Rivière O., G. Lapeyre and O. Talagrand : A novel technique for nonlinear sensitivity analysis : application to moist predictability. *Quarterly Journal of Royal the Meteorological Society*, Volume : 135, Issue : 643, Pages : 1520-1537, Part : Part B, Published : JUL 2009. Doi : 10.1002/qj.460.

**GMAP-2009-ACL-14** : Rotach, M. W., Ambrosetti P, Ament F, Appenzeller C, Arpagaus M, Bauer HS, Behrendt A, F. Bouttier, Buzzi A, Corazza M, Davolio S, Denhard M, Dorninger M, Fontannaz L, Frick J, Fundel F, Germann U, Gorgas T, Hegg C, Hering A, Keil C, Liniger MA, Marsigli C, McTaggart-Cowan R, Montani A, Mylne K, Ranzi R, Richard E, Rossa A, Santos-Muñoz D, Schär C, Y. Seity, Staudinger M, Stoll M, Volkert H, Walser A, Wang Y, Werhahn J, Wulfmeyer V, Zappa M: 2009, MAP D-PHASE: Real-time Demonstration of Weather Forecast Quality in the Alpine Region. Bulletin of the American Meteorological Society, Volume : 90, Issue : 9, Pages : 1321-+, Published : SEP 2009. Doi : 10.1175/2009BAMS2776.1.

**GMAP-2009-ACL-15** : Voitus F., Termonia P., and P. Bénard: Well-posed boundary Conditions for Spectral Semi-implicit Semi-Lagrangian Schemes: Tests in a One-Dimensional Model. Monthly Weather Review, Volume : 137, Issue : 1, Pages : 315-330, Published : JAN 2009. Doi : 10.1175/2008MWR2539.1.

## GMEI

**GMEI-2009-ACL-1** : Baehr, C. : Stochastic modeling and filtering of discrete measurements for a turbulent field. application to measurements of atmospheric wind, International Journal of Modern Physics B, Volume : 23, Issue : 28-29, Pages : 5424-5433 Published : NOV 20 2009. Doi : 10.1142/S0217979209063742.

**GMEI-2009-ACL-2** : Bou Karam D., C. Flamant, P. Tulet, J.-P. Chaboureau, A. Dabas, M. C. Todd : Estimate of Sahelian dust emissions in the intertropical discontinuity region of the West African Monsoon, Journal of Geophysical Research-Atmospheres, Volume : 114, Article Number : D13106, Published : JUL 11 2009. Doi : 10.1029/2008JD011444.

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**GMEI-2009-ACL-4** : Che, H., Zhang, X., Alfaro, S., Chatenet, B., Gomes, L., and Zhao, J., : Aerosol Optical Properties and its radiative forcing over Yulin, China in 2001 and 2002. Advances in Atmospheric Sciences. Volume : 26, Issue : 3, Pages : 564-576. Published 2009. Doi : 10.1007/s00376-009-0564-4.

**GMEI-2009-ACL-5** : Drobinski P., S. Bastin, S. Janicot, O. Bock, A. Dabas, P. Delville, O. Reitebuch, B. Sultan. On the late northward propagation of the West African monsoon in summer 2006 in the region of Niger/Mali. Journal of Geophysical Research-Atmospheres, Volume : 114, Article Number : D09108, Published : MAY 13 2009. Doi : 10.1029/2008JD011159.

**GMEI-2009-ACL-6** : Dzepina, K., R.M.Volkamer, S.Madronich, P.Tulet, I.M.Ulbrich, Q.Zhang, C.D.Cappa, P.J.Ziemann, and J.L. Jimenez, Evaluation of recently-proposed secondary organic aerosol models for a case study in Mexico City, Atmospheric Chemistry and Physics, Volume : 9, Pages : 5681-5709. Doi : 10.5194/acp-9-5681-2009.

**GMEI-2009-ACL-7** : Han, Q., Brenquier JL, Kuo KS, Naeger A, : A new IR technique for monitoring low cloud properties using geostationary satellite data. Atmospheric Science Letters, Volume : 10, Issue : 2, Pages : 115-121, Published : 2009. Doi : 10.1002/asl.218.

**GMEI-2009-ACL-8** : Kulmala, M., A. Asmi, H. K. Lappalainen, K. S. Carslaw, U. Pöschl, U. Baltensperger, Ø. Hov, J. L. Brenquier, S. N. Pandis, M. C. Facchini, H.-C. Hansson, A. Wiedensohler, and C. D. O'Dowd, Introduction: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) - integrating aerosol research from nano to global scales, Atmospheric Chemistry and Physics, Volume : 9, Pages : 3443-3444. Doi : 10.5194/acp-9-2825-2009.

**GMEI-2009-ACL-9** : Mallet, M., P. Tulet, D. Serça, F. Solmon, O. Dubovik, J. Pelon, F. Lohou, O. Thouroun and V. Pont, Impact of dust aerosols on the radiative budget, surface heat fluxes, heating rate profiles and convective activity over West Africa during March 2006. Atmospheric Chemistry and Physics, Volume 9, Pages : 143-7160. Doi:10.5194/acp-9-7143-2009.

**GMEI-2009-ACL-10** : Sandu, I., Brenguier J-L., O., Thouron O. and Stevens B., : How important is the vertical structure for the representation of aerosol impacts on the diurnal cycle of marine stratocumulus? Atmospheric Chemistry and Physics, Volume : 9, Issue : 12, Pages : 4039-4052 Published: 2009.

**GMEI-2009-ACL-11** : Shen, Z., Caquineau, S., Cao, J., Zhang, X., Han, Y., Gaudichet, A., and Gomes, L., Mineralogical characteristics of soil dust from source regions in Northern China., Particuology, Volume : 7, Issue : 6, Pages : 507-512, Published : DEC 2009. Doi : 10.1016/j.partic.2009.10.001.

**GMEI-2009-ACL-12** : Tabary, P., G. Vulpiani, J. Gourley, A. Illingworth, R. Thompson, and O. Bousquet, Unusually high differential attenuation at C-band: results from a two-year analysis of the French Trappes polarimetric radar data. Journal of Applied Meteorology and Climatology, Volume 48, Pages : 2037-2053. Doi : 10.1175/2009JAMC2039.1.

## GMGEC

**GMGEC-2009-ACL-1** : Ballester, J., H. Douville, and F. Chauvin, 2009 : Present-day climatology and projected changes of warm and cold days in the CNRM-CM3 global climate model. Climate Dynamics, Volume : 32, Issue : 1, Page : 35-54, Published : JAN 2009. Doi : 10.1007/s00382-008-0371-0.

**GMGEC-2009-ACL-2** : Barstad, I., A. Sorteberg, F. Flato, and M. Déqué. : Precipitation, temperature and wind in Norway: dynamical downscaling of ERA40. Climate Dynamics, Volume : 33, Issue : 6, Pages : 769-776, Published: NOV 2009. Doi : 10.1007/s00382-008-0476-5.

**GMGEC-2009-ACL-3** : Belviso, S., and G. Caniaux, 2009: A new assessment in North Atlantic waters of the relationship between DMS concentration and the upper mixed layer solar radiation dose. Global Biogeochemical Cycles, Volume : 23, Article Number: GB1014, Published : MAR 18 2009. Doi : 10.1029/2008GB003382.

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**GMGEC-2009-ACL-5** : Doblus-Reyes, F.J., A. Weisheimer, M. Déqué, N. Keenlyside, M. McVean, J.M. Murphy, P. Rogel, D. Smith, and T. N. Palmer, 2009: Addressing model uncertainty in seasonal and annual dynamical ensemble forecasts. Quarterly Journal of the Royal Meteorological Society, Volume : 135, Issue : 643, Pages : 1538-1559, Part : Part B, Published : JUL 2009. Doi : 10.1002/qj.464.

**GMGEC-2009-ACL-6** : Douville, H., 2009: Stratospheric polar vortex influence on Northern Hemisphere winter climate variability. Geophysical Research Letters, Volume : 36, Article Number : L18703 Published : SEP 23 2009. Doi : 10.1029/2009GL039334.

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**GMGEC-2009-ACL-8** : Guemas, V., D. Salas y Méliá, M. Kageyama, H. Giordani, A. Voldoire, and E. Sanchez-Gomez, 2009 : Winter interactions between weather regimes and marine surface in the North-Atlantic European region. Geophysical Research Letters Volume : 36, Article Number : L09816, Published: MAY 12 2009. Doi : 10.1029/2009GL037551.

**GMGEC-2009-ACL-9** : Herrmann, M., J. Bouffard, and K. Béranger , 2009 : Monitoring open-ocean deep convection from space. Geophysical Research Letters, Volume : 36, Article Number : L03606, Published : FEB 7 2009. Doi : 10.1029/2008GL036422.

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- GMGEC-2009-ACL-12** : Jomelli, V., D. Brunstein, M. Déqué, M. Vrac and D. Grancher, 2009: Impacts of future climatic change (2070–2099) on the potential occurrence of debris flows: a case study in the Massif des Ecrins (French Alps). *Climatic Change* Volume: 97, Issue: 1-2, Pages: 171-191, Published: NOV 2009. Doi : 10.1007/s10584-009-9616-0.
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- GMGEC-2009-ACL-15** : Laîné, A., M. Kageyama, D. Salas y Mélia, G. Ramstein, S. Planton, S. Denvil, and S. Tyteca, 2009: An energetics study of winter-time northern hemisphere storm tracks under 4xCO<sub>2</sub> conditions in two ocean-atmosphere coupled models. *Journal of Climate*, Volume : 22, Issue : 3, Pages : 819-839, Published: FEB 2009. Doi : 10.1175/2008JCLI2217.1.
- GMGEC-2009-ACL-16** : Marin, F., G. Caniaux, B. Boulès, H. Giordani, Y. Gouriou, and E. Key, 2009 : Why were sea surface temperatures so different in the Eastern Equatorial Atlantic in June 2005 and 2006? *Journal of Physical Oceanography*, Volume : 39 Issue : 6, Pages : 1416-1431, Published: JUN 2009. Doi : 10.1175/2008JPO4030.1.
- GMGEC-2009-ACL-17** : Martet, M., V.-H. Peuch, B. Laurent, B. Marticorena, and G. Bergametti, 2009 : Evaluation of long-range transport and deposition of desert dust with the CTM MOCAGE. *Tellus SERIES B-Chemical and Physical Meteorology*, Volume : 61 Issue : 2, Pages : 449-463, Published : APR 2009. Doi : 10.1111/j.1600-0889.2008.00413.x.
- GMGEC-2009-ACL-18** : Merlivat, L., M. Gonzalez Davila, G. Caniaux, J. Boutin, and G. Reverdin, 2009 : Mesoscale and diel to monthly variability of CO<sub>2</sub> and carbon fluxes at the ocean surface in the northeastern Atlantic. *Journal of Geophysical Research-Oceans* Volume : 114, Article Number : C03010, Published : MAR 17 2009. Doi : 10.1029/2007JC004657
- GMGEC-2009-ACL-19** : Myhre, G., M. Kvalevåg, G. Rädel, J. Cook, K. P. Shine, H. Clark, F. Karcher, K. Markowicz, A. Kardas, P. Wolkenberg, Y. Balkanski, M. Ponater, P. Forster, A. Rap, R. Rodriguez De Leon, 2009 : Intercomparison of radiative forcing calculations of stratospheric water vapour and contrails. *Meteorologische Zeitschrift*, Volume : 18, Issue : 6, Pages : 585-596, Published : DEC 2009. Doi : 10.1127/0941-2948/2009/0411.
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- GMGEC-2009-ACL-21** : Pellarin, T., J. P. Laurent, B. Cappelaere, B. Decharme, L. Descroix, and D. Ramier, 2009 : Hydrological modelling and associated microwave emission of a semi-arid region in South-western Niger. *Journal of Hydrology*, Volume : 375, Issue : 1-2, Special Issue : Sp. Iss. SI, Pages : 262-272, Published : AUG 30 2009. Doi : 10.1016/j.jhydrol.2008.12.003.
- GMGEC-2009-ACL-22** : Pitman, A. J., N. de Noblet-Ducoudré, F.T. Cruz, E.L. Davin, G.B. Bonan, V. Brovkin, M. Claussen, C. Delire, V. Gayler, B. J. J. M. van den Hurk, P. J. Lawrence, M. K. van der Molen, C. Müller, C. H. Reick, S. I. Seneviratne, B. J. Strengers, and A. Voldoire, 2009 : Uncertainties in climate responses to past land cover change: first results from the LUCID intercomparison study. *Geophysical Research Letters*, Volume : 36 Article Number : L14814, Published : JUL 23 2009. Doi:10.1029/2009GL039076.
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**GMGEC-2009-ACL-29** : Sanchez-Gomez, E., S. Somot, and A. Mariotti, 2009 : Future changes in the Mediterranean water budget projected by an ensemble of Regional Climate Models. *Geophysical Research Letters*, Volume : 36, Article Number : L21401 Published : NOV 3 2009. Doi : 10.1029/2009GL040120.

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## GMME

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## GMEI

**GMEI-2009-C-INV-1** : Baehr, C. : Filtrage stochastique non linéaire et approximation particulière pour des modèles météorologiques. Méthodes de filtrage d'Ensemble. Journée Assimilation de Données LEFE/ASSIM, 4 Décembre 2009, Paris.

**GMEI-2009-C-INV-2** : Bousquet O., 2009: The HyMeX program. Joint COST Action ES0207 and NetFAM workshop on "Usage of local, micrometeorological and remote-sensing observations for data-assimilation and validation of mesoscale atmospheric models". Oslo, Norway, 16 - 20 March 2009.

**GMEI-2009-C-INV-3** : Brenquier J. L., N. nankou : Survey of Common Interests among ESFRI PP Projects. Legal workshop - exchange of experience between Preparatory Phase Projects, Bruxelles, 6 février 2009.

**GMEI-2009-C-INV-4** : Brenquier J. L., F. Burnet, L. Chaumat : How observations shall be used to constrain numerical simulations. 4th IMS Workshop on Clouds & Turbulence, Imperial College. Londres, UK, 23-25 mars 2009.

**GMEI-2009-C-INV-5** : Brenquier J. L.: Aerosol, Clouds & Radiation : from Radiation to Cloud Physics. Workshop "Clouds: from satellite observations to atmospheric modelling" de l'ESA à Berlin (DE), 25-27 mars 2009.

**GMEI-2009-C-INV-6** : Brenquier J. L. : invitation de la Commission EU workshop on Organisational structure, the governance and the management of distributed Research Infrastructures, Bruxelles, 14 mai 2009.

**GMEI-2009-C-INV-7** : Brenquier J. L. : Invitation de la Commission EU: Working together to strengthen research in Europe, RTD-ERA, Bruxelles, 22-23 octobre 2009.

**GMEI-2009-C-INV-8** : Brenquier J. L. : invitation de l'ERF: Future Access to European Research Infrastructures: Benefits to Academia, Industry and Society, Lund, (SE), 27 octobre 2009.

**GMEI-2009-C-INV-9** : Brenquier J. L. : Sustainable Structure for Distributed Infrastructures - the EUFAR case. Workshop for the exchange of experiences between Preparatory Phase Projects, Bruxelles, 29-30 octobre 2009.

**GMEI-2009-C-INV-10** : Brenquier J. L. : Introduction to EUFAR. Comité inter-agence pour la recherche aéroportée US ICCAGRA, Tampa (FL), 9-10 novembre 2009.

**GMEI-2009-C-INV-11** : Gomes L., Aerosol, CCN and cloud measurements on French research aircraft ATR-42, International Workshop on SP2 and CCN measurements, Droplet Measurement Technology, Boulder, USA, December 7-12, 2009.

## GMGEC

**GMGEC-2009-C-INV-1** : Déqué, M., 2009: Regional climate simulations with mozaic GCMs. 2<sup>nd</sup> international Lund RCM workshop. 7 mai 2009, Lund. Sweden.

**GMGEC-2009-C-INV-2** : Déqué, M., 2009: Variable resolution and time slice AGCMs: status and open issues. WCRP meeting on regional climate modelling, 12 février 2009, Toulouse.

**GMGEC-2009-C-INV-3** : Douville, H., 2009: Influence of West African and Indian monsoon on extra-tropical variability. Alpine Summer School on Monsoon Systems, 8-13 juin 2009, Valsavarenche.

**GMGEC-2009-C-INV-4** : Douville, H., 2009: Land surface contribution to monsoon variability and predictability at seasonal timescales. Alpine Summer School on Monsoon Systems, 8-13 juin 2009, Valsavarenche.

- GMGEC-2009-C-INV-5** : Douville, H., M. Déqué, D. Salas, S. Somot, S. Planton, and A. Ribes, 2009: Uncertainties in global and regional climate projections: What did we learn from CMIP3?. Workshop on Climate and Health, 19-22 octobre 2009, Paphos, Chypre.
- GMGEC-2009-C-INV-6** : Douville, H., R. Alkama, B. Decharme, E. Martin, and A. Ribes, 2009: Réponse de l'hydrologie continentale au changement climatique: Du global au local et vice versa. 193<sup>e</sup> session du Comité Scientifique et technique de la Société Hydrotechnique de France, 31 mars et 1er avril 2009, Toulouse, 10 pp.
- GMGEC-2009-C-INV-7** : Douville, H., Y. Peings, B. Decharme, and R. Alkama, 2009: Importance of snow initial condition in seasonal forecasting. ECMWF/GLASS Workshop on Land Surface Modelling, Data Assimilation and the implications for predictability, 9-12 November 2009, ECMWF, Reading, UK, 167-175.
- GMGEC-2009-C-INV-8** : Peuch, V.-H., 2009: Forecasting European Air Quality with a multi-model approach in the context of GMES. Workshop COST ES0602 "Chemical Weather Forecasting", 12 mai 2009, Budapest, Hongrie.
- GMGEC-2009-C-INV-9** : Peuch, V.-H., 2009: GAS (GMES Atmospheric Service), programme européen de surveillance de l'atmosphère. Colloque « Météo, pollution de l'air et climat », SMF et ADEME, Ministère de l'Ecologie, 30 mars 2009, Paris.
- GMGEC-2009-C-INV-10** : Peuch, V.-H., 2009: Les modèles physico-chimiques. Ecole d'été SPECATMO (CNRS/INSU), 12 juin 2009, Ile de Ré.
- GMGEC-2009-C-INV-11** : Peuch, V.-H., 2009: Prévoir la Qualité de l'Air. Conférence pour les enseignants de l'Académie de Paris organisé par la Société Météorologique de France dans le cadre du Forum International de la Météo, 21 octobre 2009, Paris.
- GMGEC-2009-C-INV-12** : Peuch, V.-H., 2009: Towards European-Scale Air Quality Operational Services for GMES Atmosphere. Pre-CAS Technical Conference, Organisation Météorologique Mondiale, 17 novembre 2009, Incheon, Corée.
- GMGEC-2009-C-INV-13** : Planton, S., 2009: Météo et changement climatique. Conférence pour les enseignants de l'Académie de Paris organisé par la Société Météorologique de France dans le cadre du Forum International de la Météo, 21 octobre 2009, Paris.
- GMGEC-2009-C-INV-14** : Planton, S., 2009: Où en est-on des capacités à « régionaliser » le changement climatique ? Colloque du Conseil Supérieur de la Météorologie, Paris, 6 mai 2009.
- GMGEC-2009-C-INV-15** : Somot, S., N. Elquindi, E. Sanchez-Gomez, M. Herrmann, and M. Déqué, 2009: Estimating the Mediterranean Sea Water Budget: impact of RCM design. 2<sup>nd</sup> international Lund RCM workshop. 7 mai 2009, Lund. Sweden.

## GMME

- GMME-2009-C-INV-1** : Guichard, F., 2009: Bilans d'eau, Journées Scientifiques ICARE, Université de Paris VI, 8-9 octobre 2009, Paris, France.
- GMME-2009-C-INV-2** : Guichard, F., 2009: What can we learn from AMMA about physical processes and models?, Proceedings of the ECMWF Annual Seminar 2008 on "Parametrization of subgrid physical processes", 1-4 September 2008, Reading, Royaume Uni, 283-308.
- GMME-2009-C-INV-3** : Hautecoeur, O. and Roujean, J.-L., 2009: Validation of POLDER surface BRDF and albedo products based on a review of other satellites, ground and climate databases, The International Conference on Land Surface Radiation and Energy Budgets: Observations, Modeling and Analysis, 18-20 Mars 2009, Pékin, Chine.
- GMME-2009-C-INV-4** : Lac, C., Maric, T., Pinty, J.-P., Cuxart, J., Masson, V. and Tulet, P., 2009: The mesoscale meteorological models Meso-NH and AROME, International Conference on Optical Turbulence - Astronomy Meets Meteorology, Sep 15-18, Sardinia Italy, pp. 144-155

**GMME-2009-C-INV-5** : Lafore, J.-P., 2009: Evolution of our understanding of weather systems over West Africa., Joint Meeting of the Royal Meteorological Society and the European Meteorological Society "Evaluating climate processes in West Africa: New perspectives from the African Monsoon Multidisciplinary Analysis (AMMA), London

**GMME-2009-C-INV-6** : Lafore, J.-P., 2009: Towards a conceptual model of the African monsoon., 3rd International AMMA conference, Ouagadougou, Burkina Faso

**GMME-2009-C-INV-7** : Mahfouf, J.-F. and Balsamo, G., 2009: Recent developments in land data assimilation for numerical weather prediction, Proceedings of the 5th WMO International Symposium on Data Assimilation of Observations in Meteorology, Oceanography and Hydrology, 5-9 Octobre 2009, Melbourne, Australia, 16 pp.

**GMME-2009-C-INV-8** : Redelsperger, J.-L., Lebel, T. and Amani, A., 2009: AMMA: an integrated research program on a regional climate system., GEOOS-AWCS, Tunis

**GMME-2009-C-INV-9** : Roujean, J.-L., Manninen, T. and co-auteurs, 17., 2009: SNORTEX (Snow Reflectance Transition Experiment): remote sensing measurements of the dynamic properties of the boreal snow-forest in support to climate and weather forecast: report of IOP 2008, The International Conference on Land Surface Radiation and Energy Budgets: Observations, Modeling and Analysis, 18-20 Mars 2009, Pékin, Chine

## CEN

**CEN-2009-C-INV-1** : Meyssonier, J., Philip, A., Rolland du Roscoat, S., Ludwig, W., and Flin, F., Etude des mécanismes de déformation de la neige à l'échelle du grain, Colloque national Mecamat: Mécanique et mécanismes des changements de phases, Aussois, 26-30 january 2009, invited talk.

**CEN-2009-C-INV-2** : Meyssonier, J., Philip, A., Rolland du Roscoat, S., Ludwig, W., Flin, F., and Lesaffre, B., An X-ray study of dry-snow deformation mechanisms at the grain scale, MOCA-09, the IAMAS / IAPSO / IACS 2009 Joint Assembly, Montréal, Canada, 19-29 july 2009, invited talk.

## 2010

## GMAP

**GMAP-2010-C-INV-1** : Bazile E.: 3rd International Workshop on New Generation on NWP models. Jéju, Corée du Sud, 29-Aout 2 Septembre 2010.

**GMAP-2010-C-INV-2** : Bénard P.: NH modelling with AROME (and some properties of quasi-elastic systems), ECMWF Workshop on non-hydrostatic modelling, Reading, UK, 8-10 November 2010.

**GMAP-2010-C-INV-3** : Desroziers G.: Systèmes d'assimilation opérationnels. Météo/MathAppli, SMAI, Météo-France, DSNA/DTI. Toulouse, France, 8–9 mars 2010.

**GMAP-2010-C-INV-4** : A. Doerenbecher. Data assimilation and targeting developments in the HyMex Program. THORPEX Data Assimilation and Observing Systems meeting. Montréal. June 2010.

**GMAP-2010-C-INV-5** : Ei Khatib R., Ph. Marguinaud, L-F. Meunier, E. Sevault: Météo-France RAPS Benchmark, ECMWF HPC Workshop, Reading, IK, 3-5 novembre 2010.

**GMAP-2010-C-INV-6** : Guidard V., L. Lavanant: Cloudy infrared radiances: status of assimilation at Météo-France and intercomparison exercise. ECMWF/JCSDA Workshop on Assimilating Satellite Observations of Clouds and Precipitation into NWP Models, ECMWF, Reading (Grande-Bretagne), 15 au 17 juin 2010.

**GMAP-2010-C-INV-7** : Joly A.: Modèles de prévision numérique du temps: 5è rencontres Météo/MathAppli, SMAI, Météo-France, DSNA/DTI. Toulouse, France, 8–9 mars 2010.

**GMAP-2010-C-INV-8** : Montmerle T., Michel, Y., and B. Ménétrier: Modelling of background error covariances for the analysis of clouds and precipitation. Proceedings of the ECMWF -JCSDA Workshop on Assimilating Satellite Observations of Clouds and Precipitation, Reading UK, 15-17 June 2010.

## GMEI

**GMEI-2010-C-INV-1** : Baehr C. : Filtrage stochastique non linéaire et approximation particulière pour des modèles météorologiques. Groupe de Travail d'ALEA, Bordeaux, 7 Janvier 2010.

**GMEI-2010-C-INV-2** : Besson F., J. L. Maridet, A. Dabas : Lidar wind-shear monitoring : Nice Airport Trials. Wakenet-3 Europe / Greenwake dedicated workshop on "Wake vortex monitoring sensors in all weather conditions". Palaiseau, 29-30 mars 2010.

**GMEI-2010-C-INV-3** : Brenguier, J. L. : Introduction to EUFAR I3 and COPAL PP. Réunion ESFRI Environnement. Paris, 09 février 2010.

**GMEI-2010-C-INV-4** : Brenguier, J. L. : ECRI 2010, Conférence de l'UE sur les infrastructures de recherche. Barcelone, 22-23 mars 2010.

**GMEI-2010-C-INV-5** : Brenguier, J. L. : Contributions of the EUFAR network to volcanic ash measurements. ESA/EUMETSAT workshop on ash plume monitoring. Frascati, 26-27 mai 2010.

**GMEI-2010-C-INV-6** : Brenguier, J. L. : EUFAR Contribution to the Volcanic Ash Airborne Monitoring. EASA workshop: "Volcanic Ash Cloud: Detection, Observation, Measurement, Modelling - The way forward. Cologne, 21 juin 2010.

**GMEI-2010-C-INV-7** : Brenguier, J. L. : Improving the Accuracy of Particle Mass Concentration Prediction : Lessons learned from the Eyjafjallajokull crisis and other cases. International Air Safety & Climate Change Conference (IASCC), Cologne, 8-9 septembre 2010.

**GMEI-2010-C-INV-8** : Dabas A., N. Papineau: What we learnt about ashes from the French research aircrafts. ESA/EUMETSAT Workshop on Volcanic Ash Plume Monitoring, Frascati, 26-27 Mai 2010.

## GMGEC

**GMGEC-2010-C-INV-1**: Déqué, M., 2010: Techniques for dynamical downscaling. WCRP workshop on regional climate, 15 juin 2010, Lille.

**GMGEC-2010-C-INV-2** : Douville, H., Y. Peings, R. Alkama, and B. Decharme, 2010: Land surface contribution to climate variability and predictability. WWRP-WCRP workshop on intra-seasonal to seasonal prediction, 1-3 décembre 2010, Exeter, UK.

**GMGEC-2010-C-INV-3** : Peuch, V.-H., 2010: GMES atmosphère: le service "qualité de l'air en Europe" et le rôle de PrévAir. Forum national des utilisateurs GMES, Ministère de l'Ecologie, 16 novembre 2010, Paris.

**GMGEC-2010-C-INV-4** : Planton, S., 2010: Longues séries de températures », journée de débat sur le changement climatique organisé par l'Académie des Sciences, 20 septembre 2010, Paris.

**GMGEC-2010-C-INV-5** : Somot, S., 2010: Added-value and retained-value of Regional Climate Models: Mediterranean examples. 2<sup>nd</sup> MedCLIVAR-ESF-ICTP Summer School, 13-22 September 2010, Trieste, Italy.

**GMGEC-2010-C-INV-6** : Somot, S., 2010: Mediterranean Sea Heat Budget: observed estimates, present-climate model evaluation and climate change scenarios. 4<sup>th</sup> ESF-MedCLIVAR Workshop, 28-30 September 2010, Trieste, Italy.



## GMME

**GMME-2010-C-INV-1** : Carrer, D., Geiger, B., Roujean, J.-L., Hauteceur, O., Cedilnik, J., Mahfouf, J., Meurey, C. and Franchistéguy, L., 2010: Land surface albedo from MSG/SEVIRI: retrieval method, validation, and application for weather forecast, Colloque LES SATELLITES GRAND CHAMP pour le suivi de l'environnement, des ressources naturelles et des risques, 21-22 janvier 2010, Clermont-Ferrand

**GMME-2010-C-INV-2** : Ducrocq, V., 2010: Prévisibilité hydrométéorologique des pluies intenses et crues rapides en régions Méditerranéennes, Gérer le risque météorologique, Journée scientifique de la Société Météorologique de France, 23 mars 2010, Paris, France

**GMME-2010-C-INV-3** : Guichard, F., 2010: Couplings between surface energy balance, thermodynamics and boundary layer properties in the Sahel, Workshop on Atmosphere-soil-vegetation couplings at boundary layer and meso-scales, Université de Wageningen, 11 mars 2010, Wageningen, Pays Bas

**GMME-2010-C-INV-4** : Honnert, R., 2010: Turbulence in atmospheric models at kilometeric scale, Third International Workshop on Next-Generation NWP Models : Bridging parameterization, explicit clouds and large eddies, 29 August 1 September 2010, Jeju Island, South Korea

**GMME-2010-C-INV-5** : Mahfouf, J.-F., 2010: Advances in land data assimilation at Météo-France, ECMWF/GLASS Workshop on Land Surface Modelling, Data Assimilation and the implications for predictability, 9-12 Novembre 2009, Reading, UK, 65-75

**GMME-2010-C-INV-6** : Masson, V., 2010: Le changement climatique à Paris, 3èmes journées parisiennes de l'énergie et du climat, 19 octobre 2010

**GMME-2010-C-INV-7** : Masson, V., 2010: Le Grand Paris, Les entretiens du CERTU, 2 et 3 février 2010, Lyon, France

**GMME-2010-C-INV-8** : Masson, V., 2010: Le Grand Paris, séminaire "ville post-carbone" organisé par le MEEDM, 11 juin 2010

**GMME-2010-C-INV-9** : Nuissier, O., 2010: Convective-scale and short-range predictability of high-impact weather events, ECMWF 2010 Seminar, 6-9 Sept. 2010, Reading, UK

**GMME-2010-C-INV-10** : Pigeon, G., 2010: Impact of solar installations on the urban energetic surface-atmosphere budget, Workshop on the Solar Energy at the urban Scale, 25-26 Mai, Compiègne France

**GMME-2010-C-INV-11** : Pigeon, G., 2010: Le changement climatique : de l'échelle globale à l'échelle urbaine, 40ème Congrès des géomètres experts, 23-25 Juin, Marseille, France

**GMME-2010-C-INV-12** : Pigeon, G., 2010: L'impact des zones urbaines sur le climat, Le plan bâtiment Grenelle, 25 Octobre, Toulouse, France

**GMME-2010-C-INV-13** : Redelsperger, J.-L., 2010: AMMA, un programme interdisciplinaire sur la mousson d'Afrique de l'Ouest, sa variabilité et ses impacts sociétaux., Colloque "L'INSU a 25 ans", Collège de France.

**GMME-2010-C-INV-14** - Redelsperger, J.-L., 2010: Societal benefits of meteorological & climatological applications: Examples from AMMA programme, Conferences of Ministeries, Nairobi (Kenya)

**GMME-2010-C-INV-15** : Taylor, C., Gounou, A., Guichard, F., Harris, P., Ellis, R. and Couvreux, F., 2010: The impact of soil moisture on convective initiation in the Sahel, European Geosciences Union, General Assembly 2009, 2-7 mai 2010, Vienne Autriche, EGU2010-14934

## CEN

**CEN-2010-C-INV-1** : Legrand, M., Morin, S., Preunkert, S., and Jourdain, B., Aerosols (Sea Salt and Biogenic Sulfur) and Ozone in the Boundary Layer at the Coastal (Dumont d'Urville, DDU) and Inland (Concordia) Sites in East Antarctica, SCAR XXXI meeting, Open Science Conference, Buenos Aires, Argentina, invited talk.

**CEN-2010-C-INV-2** : Meyssonier, J., Brutel-Vuilmet, C., Chareyre, B., Darve, F., Flin, F., Gilibert, L., Hasan, A., Kozicki, J., Lesaffre, B., Ludwig, W., Nicot, F., Philip A., and Rolland du Roscoat, S., Experimental micromechanics of dry snow, ICACM-International Center for Applied Computational Mechanics. Scale transition for plastic crystalline and microstructured materials: from experiment to numerical modeling, 4th US-France Symposium, Paris, France, 2-4 June 2010, invited talk.

## 2011

### GMAP

**GMAP-2011-C-INV-1** : Arbogast, P. "Presentation of HYmex: a multi-disciplinary programme dedicated to the water cycle over the Mediterranean", THORPEX European Regional Meeting, 24-27 May 2011, Karlsruhe, Allemagne

**GMAP-2011-C-INV-2** : Auger L.: « Nowcasting strategies, rapid analysis refresh and high resolution modeling », WMO/WWRP Workshop on Use of NWP for Nowcasting, 24-26 October 2011, Boulder, USA

**GMAP-2011-C-INV-3** : Bazile E.: "La couche limite stable", ECMWF Reading UK, novembre 2011

**GMAP-2011-C-INV-4** : Bénard P.: Non-hydrostatic modelling with AROME (and some properties of quasi-elastic system). ECMWF Workshop Proceedings on non-hydrostatic modelling, 87-93.

**GMAP-2011-C-INV-5** : Descamps L., C. Labadie and E. Bazile: Representing model uncertainty using the multiparametrization method. ECMWF Workshop on Model Uncertainty. 175-182, 20 - 24 June 2011

**GMAP-2011-C-INV-6** : Desroziers G. : Accelerating minimizations in ensemble variational assimilation. London Mathematical Society Workshop on the Mathematics of Data Assimilation, Durham, UK, 1-11 August 2011.

**GMAP-2011-C-INV-7** : Desroziers, G. "Observation error specification" ECMWF seminar, Reading UK, 6-9 September 2011.

**GMAP-2011-C-INV-8** : Mahfouf J-E., "Data assimilation of the hydrological cycle" ECMWF seminar, Reading UK, 6-9 September 2011.

**GMAP-2011-C-INV-9** : Y. Michel. Data assimilation developments in the HyMEX Program. THORPEX Data Assimilation and Observing Systems meeting. Exeter. June 2011.

**GMAP-2011-C-INV-10** : Montmerle T. : « Data assimilation strategies for operational NWP at meso-scale and implication for nowcasting », WMO/WWRP Workshop on Use of NWP for Nowcasting, 24-26 October 2011, Boulder, USA.

**GMAP-2011-C-INV-11** : Pannekoucke, O.: Ensemble methods for variational data assimilation and forecasting, Journées de Statistique, Rennes, 20-21 octobre 2011.

**GMAP-2011-C-INV-12** : Rabier F. , "DAOS overview", THORPEX European Regional Meeting, 24-27 May 2011, Karlsruhe, Allemagne

**GMAP-2011-C-INV-13** : Rabier F.: "Pre and Post processing in Data Assimilation" ECMWF seminar, Reading UK, 6-9 September 2011.

**GMAP-2011-C-INV-14** : Rabier, F., "Concordiasi: A Project Dedicated to the Polar Atmosphere", SPARC data assimilation workshop, Bruxelles, Belgique, 20-22 juin 2011.

**GMAP-2011-C-INV-15** : Voitus E.: The dynamical kernel of ARPEGE: strengths and weaknesses in the view of exascale climate forecast. Workshop Dynamical Cores For Climate Models, Lecce, 14-15/12/2011.

### GMEI

**GMEI-2011-C-INV-1** : Baehr, C., Introduction à l'ingénierie météorologique et son application à l'aéronautique. Workshop ENAC/DSNA. 17 Février 2011.

**GMEI-2011-C-INV-2** : Burnet F., L. Gomes , P. Barnéoud et O. Thouron: Etude expérimentale des propriétés microphysiques du brouillard, Atelier National Brouillard, Palaiseau, 21-22 mars 2011.

**GMEI-2011-C-INV-3** : Paci A. : De l'atmosphère au laboratoire: quelques expériences sur la couche limite et les ondes internes, AG du CNFGG, 08 mars 2011.

## GMGEC

**GMGEC-2011-C-INV-1** : Déqué, M., 2011: Les échelles globales et régionales : quels scénarios et quels outils. Atelier GMES, 8 juin 2011, Paris.

**GMGEC-2011-C-INV-2** : Planton, S., 2011 : Application of climate models for regional climate change projections in the Mediterranean Area. Final MedCLIVAR-ESF annual workshop, 8 Juin 2011, Lecce, Italie.

**GMGEC-2011-C-INV-3** : Ribes, A.: Climate change detection and attribution : overview and future plans, Second UMI-IFAECI Meeting, 25 avril 2011, Buenos Aires, Argentine.

**GMGEC-2011-C-INV-4** : Ribes, A.: Methods for climate change detection - attribution, Spatial data methods for environmental and ecological processes, 2nd Edition, 2 septembre 2011, Foggia, Italie.

**GMGEC-2011-C-INV-5** : Somot, S., 2011 : The international Med-CORDEX initiative: A multi-component and multi-model approach to study the physical processes, the variability and the trends of the Mediterranean regional climate system. Final MedCLIVAR-ESF annual workshop, 8 Juin 2011, Lecce, Italie.

## GMME

**GMME-2011-C-INV-1** : Couvreur, F., Guichard, F., Rio, C., Lothon, M., Gounou, A., Bouniol, D., and Canut, G., : Transition from shallow to deep convection in a semi-arid environment analyzed with LES and observations: a focus on the role of surface and environmental conditions (solicited) , EMS, Berlin, September 2011

**GMME-2011-C-INV-2** : Masson, V., 2011: Cities and Climate Change, International urban workshop, 12-15 July 2011, Beijing, China

**GMME-2011-C-INV-3** : Masson, V., 2011: Modélisation intégrée de la ville: exemple du projet MUSCADE, Colloque "La modélisation de la ville : du modèle au projet urbain", 23-24 février 2011, Marnes-La-Vallée

## CEN

**CEN-2011-C-INV-1** : Domine, F., L. Arnaud, J. Bock, C. Carmagnola, N. Champollion, J.-C. Gallet, B. Lesaffre, S. Morin : G. Picard Vertical profiles of specific surface area, thermal conductivity and density of mid-latitude, Arctic and Antarctic snow: relationships between snow physics and climat, EOS Trans. AGU, Fall Meet. Suppl., Abstract C32B-01, 2011, invited talk.

**CEN-2011-C-INV-2** : Essery, R. and S. Morin : A comparison of 6561 snow models using observations from an alpine site. IUGG 2011 Conference, IACS Symposium, Melbourne, Australia, 2011, présentation invitée.

**CEN-2011-C-INV-3** : Flin, F., A. Hasan, L. Gillibert, A. Dufour, B. Chareyre, B. Lesaffre, W. Ludwig, J. Meyssonier, A. Philip, S. Rolland du Roscoat. Some numerical tools to study snow microstructure from 3D images, IUGG 2011 General Assembly, Melbourne, Australia, June 28 - July 7, 2011.

# 2012

## GMAP

- GMAP-2012-C-INV-1** : Berre, L.: Assimilation de données avancée pour les géosciences. 28 mai 2012 - 01 juin 2012. Les Houches
- 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
- GMAP-2012-C-INV-3** : Desroziers, G.: Assimilation de données avancée pour les géosciences. 28 mai 2012 - 01 juin 2012. Les Houches
- 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.
- GMAP-2012-C-INV-6** : Pannekoucke, O.: "Utilisation de l'optimisation pour la prévision numérique du temps", Journée MODE de la SMAI, Dijon, 28-30 Mars 2012.
- GMAP-2012-C-INV-7** : Pannekoucke, O.: « Journées de la Popularisation des Mathématiques » Orléans 15-16 mai 2012
- GMAP-2012-C-INV-8** : Rabier, F.: Assimilation de données avancée pour les géosciences. 04 - 08 juin 2012 Les Houches
- GMAP-2012-C-INV-9** : Rabier, F.: Le projet Concordiasi. Présentation invitée au Colloque de restitution du TOSCA du CNES, 22 mars 2012.
- GMAP-2012-C-INV-10** : Voitus F.: Defining a network of European profiling stations. Projet COST ES-0702/ACTRIS. Reading- UK, 28 mars 2012

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- 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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- GMGEC-2012-C-INV-4** : Somot, S.: The Med-CORDEX initiative: coordinated exercise with fully coupled Regional Climate System Models to study the Mediterranean climate variability and change. 6th International HyMeX Workshop, May 2012, Primosten, Croatia.

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**GMAP-2013-C-INV-2** : Berre Loïk : Conférence « MCPIT2013: Modelling, Control and Inverse Problems : for the Planet Earth in all its states », « Data assimilation for Numerical Weather Prediction », Institut Henri Poincaré, F-75005 Paris, France, 19-20 novembre 2013. <http://www.math.univ-metz.fr/~alabau/MCPIT2013/>

**GMAP-2013-C-INV-3** : Chambon P.: Quantitative precipitation estimates and forecasts : entering the Megha-Tropiques and GPM era. Second French-Japanese Workshop on the scientific utilization of Space-based Earth Observation data. May 29th 2013. CNES Headquarters, Paris, France

**GMAP-2013-C-INV-4** : Chambon P., Roca R and N Taburet : The error model for the TAPEER daily rainfall estimates. 1st International Megha-Tropiques Ground Validation Workshop, September 25-27th 2013, Observatoire Midi-Pyrénées, Toulouse

**GMAP-2013-C-INV-5** : Guidard V.: IASI in global and mesoscale operational NWP systems, 3<sup>ème</sup> Conférence Internationale IASI, Hyères, France, 4-8 février 2013

**GMAP-2013-C-INV-6**: Guidard, V.: Data compression - Regional data user perspective. ECMWF/EUMETSAT NWP-SAF Workshop on Efficient Representation of Hyper-spectral Infrared Satellite Observations, ECMWF, Reading (UK), 5-7 Novembre 2013.

**GMAP-2013-C-INV-7** : Montmerle T. : AROME-PI or how to take advantage of an existing operational NWP system at convective scale for nowcasting. Seminar on weather radar based precipitation products adapted to inflow forecasting and hydropower scheduling, MetNo, Oslo, 11-14/09/2013

**GMAP-2013-C-INV-8** : Montmerle T. : Forecast errors at convective scale, Sixth WMO Symposium on Data Assimilation, Washington, 07-11/10/2013

**GMAP-2013-C-INV-9** : Rabier, F. séminaire sur Concordiasi à la Cité de l'Espace, Toulouse, le 18 avril 2013.

**GMAP-2013-C-INV-10** : Rabier, F. Les données recueillies sont de plus en plus complètement mises à profit; présentation invitée au colloque sur les satellites organisé par le Conseil Supérieur de la Météorologie. 24 mai à Saint-Mandé.

**GMAP-2013-C-INV-11** : Wattrélot E. : Evolution, optimization and challenges of the radar data assimilation. Seminar on weather radar based precipitation products adapted to inflow forecasting and hydropower scheduling, MetNo, Oslo, 11-14/09/2013

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**GMGEC-2013-C-INV-1** : Déqué, M., 2013 : Conséquences du changement climatique sur l'évolution des précipitations et des épisodes de sécheresse. 15èmes journées nationales de la filière blé dur, 7 février 2013, Labège.

**GMGEC-2013-C-INV-2** : Déqué, M., 2013 : Improvement in winter seasonal predictability by including a stratospheric description in the forecast model. WCRP international workshop on seasonal to decadal prediction, 14 mai 2013, Toulouse.

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**GMGEC-2013-C-INV-5** : Déqué, M., 2013 : Overview of dynamical downscaling methods. Cordex conference, 6 novembre 2013, Bruxelles, Belgique.

**GMGEC-2013-C-INV-6** : Douville H., 2013 : Land surface contribution to climate predictability: the long way from early evidence to improved forecast skill (invited talk). EGU meeting, Vienne, 8-12/04/2013.

**GMGEC-2013-C-INV-7** : Guemas, V., 2013 : The role of sea ice in extended range prediction of atmosphere and ocean . ECMWF-WWRP/THORPEX workshop on polar prediction, 24-28 June 2013, Reading, UK.

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**GMME-2013 C-INV-1** : Ducrocq, V. and HyMeX EC-ISC Team, 2013 : HyMeX-SOP1, the field campaign dedicated to heavy precipitation and flash-flooding in Northwestern Mediterranean. EGU General Assembly ,Vol. 15, EGU2013-2539, 2013 2013

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**GMME-2013-C-INV-4** : Lafore, J.P., The cold pool parameterization in the LMD model: basics, results in 1D frameworks and challenges. COST WG1+2 Meeting: "Convectively Generated Cold Pools" September 3-4 septembre 2013, Bergen, Norvège

**GMME-2013-C-INV-5** : Lafore, J.P., Improving the representation of convection over Africa for semi-arid conditions. WCRP: "Understanding and representing atmospheric convection across scales" 18-20 janvier 2012, Devon, UK

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**CEN-2013-C-INV-1** : Calonne, N., C. Geindreau, F. Flin, B. Lesaffre and S. Rolland du Roscoat, 2013 : About the relationship between microstructural and effective physical properties of snow computed on 3D images: comparison with measurements and models, AGU Fall Meeting, 9-13 December, San Francisco, USA, C41C-0655, invited poster.

# C-ACTI

**Communications avec actes dans un congrès international**



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**GMAP-2009-C-ACTI-2** : Bouyssel F.: NETFAM workshop on Moist Processes in Future High Resolution NWP Models: « Status and plans for AROME », Norrköping, Suède, 15 au 17 juin 2009.

**GMAP-2009-C-ACTI-3** : Brousseau P., L. Berre, F. Bouttier, G. Desroziers: use of ensemble assimilation to represent flow-dependent B matrix in the AROME data assimilation system. The 5TH WMO Symposium on Data Assimilation, Melbourne, Australia 5th - 9th October, 2009.

**GMAP-2009-C-ACTI-4** : Eyre, J., E. Andersson, E. Charpentier, L. Ferranti, J. Lafeuille, M. Ondráš, J. Pailleux, F. Rabier and LP. Riishojgaard: Requirements of numerical weather prediction for observations of the oceans. Community White Paper for OceanObs'09, septembre 2009, Venise, Italie.

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**GMAP-2009-C-ACTI-6** : Michel Y.: Introducing Climatological Flow-Dependence in the WRFVAR Background Error Model For Variational Data Assimilation. Application to Antarctica.. 10th WRF Users' Workshop - Data Assimilation Development and Testing, Boulder, Colorado, USA, June 2009.

**GMAP-2009-C-ACTI-7** : Pangaud T., N. Fourrié, V. Guidard, F. Rabier, P. Poli et M. Dahoui: Assimilation of advanced sounder radiances in the French global Numerical Weather Prediction ARPEGE model. Conférence EUMETSAT, Bath, UK, septembre 2009.

**GMAP-2009-C-ACTI-8**: Raynaud L., L. Berre and G. Desroziers: Ensemble background-error variances : objective filtering and impact studies. Extended abstract - Fifth WMO Symposium on the Assimilation of Observations for Meteorology, Oceanography and Hydrology, Melbourne, Australie, 5-9 October 2009.

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**GMEI-2009-C-ACTI-1** : Bousquet O., 2009: Dynamical and microphysical properties of high impact orographic mesoscale convective systems from high resolution operational multiple-Doppler and polarimetric radar data. 34th Conference on Radar Meteorology, Williamsburg, USA, 4pp.

**GMEI-2009-C-ACTI-2** : Crumeyrolle S., L. Gomes, P. Tulet, A. Matsuki, A. Schwarzenboeck, H. Venzac, P. Laj, O. Laurent, G. Momboisse, and T. Bourrienne, The impact of the mesoscale convective systems (MCS) on aerosol physical and chemical properties, focusing on hygroscopicity, during the AMMA campaign, Proceedings from the 3rd AMMA International Conference, Ouagadougou, Burkina Faso, July 2009.

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**GMEI-2009-C-ACTI-5** : Etling, D., C. Knigge, A. Paci, and O. Eiff, Laboratory experiments on mountain induced rotors, 30th International Conference on Alpine Meteorology, Rastatt, Germany, May 2009.

**GMEI-2009-C-ACTI-6** : Kergomard A., P. Dupuy, O. Bousquet and P. Tabary, 2009: Real-time nationwide production of 3d wind and reflectivity fields in France: science, engineering and applications. 34th Conference on Radar Meteorology, Williamsburg, USA, 4pp.

**GMEI-2009-C-ACTI-7** : Lambert, D., et al., A Mediterranean atmospheric observatory in Corsica within the framework of Hymex, Charmex and Mermex, Proceedings from the EGU General Assembly 2009, Vienna, Austria, 19-24 April 2009.

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**GMME-2009-C-ACTI-6** : Carrer, D., Geiger, B., Roujean, J.-L., Hautecoeur, O., Cedilnik, J., Mahfouf, J.-F., Meurey, C. and Franchistéguy, L., 2009: Land surface albedo from MSG/SEVIRI : Retrieval method, validation, and application for weather forecasts, 2009 IEEE International Geoscience and Remote Sensing Symposium, 12-17 Juillet 2009, Le Cap, Afrique du Sud, 288-291

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**GMME-2009-C-ACTI-10** : Ducrocq, V., de St. Aubin, C., Bresson, E., Nuissier, O. and Ricard, D., 2009: A numerical study of the combined processes leading to Mediterranean quasi-stationary MCS, 30th International Conference on Alpine Meteorology, 11-15 May 2009, Rastatt, Germany, 112-113

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- GMME-2009-C-ACTI-24** : Masson, V., Pigeon, G. and Hamdi, R., 2009: Inclusion of a multi-layer drag approach in urban surface schemes: which benefits ?, Eighth Symposium on the Urban Environment, AMS, Janvier 2009, Phoenix
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# HDR

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