



# **PUBLICATIONS / PRODUCTIONS**

**du laboratoire**

**CNRM/GAME, URA 1357**

# **ANNEE 2011**

**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...)**

# 2011

## GMAP

**GMAP-2011-ACL-1** : Auligné T., A. Lorenc, Y. Michel, T. Montmerle, A. Jones, M. Hu, and J. Dudhia : TOWARD A NEW CLOUD ANALYSIS AND PREDICTION SYSTEM. Bulletin of the American Meteorological Society, Volume : 92, Issue : 2, Pages : 207-210, Published : APR 2011. Doi : 10.1175/2010BAMS2978.1.

**GMAP-2011-ACL-2** : Barthlott Christian, Ralph Burton, Daniel Kirshbaum, Kirsty Hanley, Evelyne Richard, Jean-Pierre Chaboureau, Jorg Trentmann, Bastian Kern , Hans-Stefan Bauer, Thomas Schwitall, Christian Keil, Yann Seity, Alan Gadian, Alan Blyth , Stephen Mobbs, Cyrille Flamant, Jan Handwerker, 2011 : Initiation of deep convection at marginal instability in an ensemble of mesoscale models: A case study from COPS. Quarterly Journal of Royal Meteorological Society, Volume: 137, Special Issue: SI Supplement: 1, Pages: 118-136, Published: JAN 2011. DOI: 10.1002/qj.707.

**GMAP-2011-ACL-3** : Bauer P., T. Auligné, W. Bell, A. Geer, V. Guidard, S. Heilliette, M. Kazumori, M-J. Kim, E. H.-C. Liu, A. P. McNally, B. Macpherson, K. Okamoto, R. Renshaw, L-P. Riishojgaard: Satellite cloud and precipitation assimilation at operational NWP centres. *Quarterly Journal of Royal Meteorological Society*, Volume : 137, Issue : 661, Special Issue : SI, Pages : 1934-1951, Doi : 10.1002/qj.905, Part : Part b. Published : OCT 2011.

**GMAP-2011-ACL-4** : Bonavita M., Raynaud L. and Isaksen L.: Estimating background-error variances with the ECMWF Ensemble of Data Assimilations system : some effects of ensemble size and day-to-day variability. Quarterly Journal of the Royal Meteorological Society, Volume : 137, Issue : 655, Pages : 423-434, Part : Part B, Published : JAN 2011. Doi : 10.1002/qj.756.

**GMAP-2011-ACL-5** : Bouteloup, Y., Y. Seity, and E. Bazile : Description of the sedimentation scheme used operationally in all Météo-France NWP models. TELLUS SERIES A-Dynamic Meteorology and Oceanography, Volume: 63, Issue: 2, Pages: 300-311, Published: MAR 2011. DOI: 10.1111/j.1600-0870.2010.00484.x.

**GMAP-2011-ACL-6** : Dupont T., M. Plu, P. Caroff, and G. Faure, 2011 : Verification of Ensemble-Based Uncertainty Circles around Tropical Cyclone Track Forecasts. Weather and Forecasting, Volume : 26, Issue : 5, Pages : 664-676, Doi : 10.1175/WAF-D-11-00007.1. Published: OCT 2011.

**GMAP-2011-ACL-7** : El Ouaraini R. and L. Berre: Sensitivity of ensemble-based variances to initial background perturbations. Journal of Geophysical Research-Atmospheres, Volume : 116, Article Number : D15106, Doi : 10.1029/2010JD015075. Published : AUG 5 2011.

**GMAP-2011-ACL-8** : Fischer C., L. Auger: Some experimental lessons on digital filtering in the Aladin-France 3D-VAR based on near-ground examination. Monthly Weather Review, Volume : 139, Issue : 3, Pages : 774-785, Published : MAR 2011. Doi : 10.1175/2010MWR3388.1.

**GMAP-2011-ACL-9** : Gérard, E., F. Karbou, F. Rabier: Potential use of Surface Sensitive Microwave Observations over Land in Numerical Weather Prediction. IEEE Transactions on Geoscience and Remote sensing, Volume : 49, Issue : 4, Pages : 1251-1262, Published : APR 2011. Doi : 10.1109/TGRS.2010.2075936.

**GMAP-2011-ACL-10** : Guidard V., N. Fourrié, P. Brousseau and F. Rabier: Impact of IASI assimilation at global and convective scales and challenges for the assimilation of cloudy scenes. *Quarterly Journal of Royal Meteorological Society*, Volume: 137 Issue : 661, Special Issue : SI, Pages : 1975-1987, Doi : 10.1002/qj.928 Part: Part b. Published : OCT 2011.

**GMAP-2011-ACL-11** : Jansa A., P. Arbogast, A. Doerenbecher, L. Garcies, A. Genoves, V. Homar, S. Klink, D. Richardson and S. Cahin: A new approach to sensitivity climatologies : The DTS-MEDEX-2009 campaign. *Natural Hazards and Earth System Sciences*, Volume : 11, Issue : 9 Pages : 2381-2390, Doi : 10.5194/nhess-11-2381-2011. Published : 2011.

**GMAP-2011-ACL-12** : Karbou F., F. Weng, A. French: Foreword to the Special Issue on Remote Sensing and Modeling of Surface Properties. *IEEE Transactions on Geoscience and Remote Sensing*, Volume : 49, Issue : 4, Pages : 1175-1176, Doi : 10.1109/TGRS.2011.2127270. Published : APR 2011.

**GMAP-2011-ACL-13** : Koster R.D., S. P. P. Mahanama, T. J. Yamada, G. Balsamo, A. A. Berg, M. Boisserie, P. A. Dirmeyer, F. J. Doblas-Reyes, G. Drewitt, C. T. Gordon, Z. Guo, J.-H. Jeong, W.-S. Lee, Z. Li, L. Luo, S. Malyshev, W. J. Merryfield, S. I. Seneviratne, T. Stanelle, B. J. J. M. van den Hurk, F. Vitart, and E. F. Wood: The Second Phase of the Global Land–Atmosphere Coupling Experiment: Soil Moisture Contributions to Subseasonal Forecast Skill. *Journal of Hydrometeorology*, Volume : 12, Issue : 5, Pages : 805-822, Doi : 10.1175/2011JHM1365.1. Published : OCT 2011.

**GMAP-2011-ACL-14** : Laine A, G. Lapeyre and G. Rivière, 2011 : A Quasigeostrophic Model for Moist Storm Tracks. *Journal of the Atmospheric Sciences*, Volume : 68, Issue : 6, Pages : 1306-1322, Doi : 10.1175/2011JAS3618.1. Published : Juin 2011.

**GMAP-2011-ACL-15** : Lavanant L., N. Fourrié, A. Gambacorta, G. Grieco, S. Heilliette, F. I. Hilton, M.-J. Kim, A. P. McNally, H. Nishihata, E. G. Pavelin, F. Rabier: Comparison of cloud products within IASI footprints for the assimilation of cloudy radiances. *Quart. Jour. Roy. Meteor. Soc.*, **137**, 1988-2003. DOI: 10.1002/qj.917

**GMME-2011-ACL-16** : Mahfouf, J.-F. and Bliznak, V., 2011: Combined assimilation of screen-level observations and radar derived precipitation for soil moisture analysis. *Quarterly Journal of the Royal Meteorological Society*, Volume : 137, Issue : 656, Pages : 709-722, Part : Part A, Published : APR 2011. Doi : 10.1002/qj.791

**GMAP-2011-ACL-17** : Ménétrier B. and T. Montmerle : Heterogeneous background error covariances for the analysis of fog. *Quarterly Journal of Royal Meteorological Society*, Volume : 137, Issue : 661, Special Issue : SI, Pages : 2004-2013, Doi : 10.1002/qj.802, Part : Part b. Published : OCT 2011.

**GMAP-2011-ACL-18** : Michel C., G. Rivière: The link between Rossby wave breakings and weather regimes transitions. *Journal of the Atmospheric Sciences*, Volume : 68, Issue : 8, Pages : 1730-1748, Doi : 10.1175/2011JAS3635.1. Published : 15 aout 2011.

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**GMAP-2011-ACL-20** : Michel Y., Auligné T. and T. Montmerle: Heterogeneous Convective-Scale Background Error Covariances with the Inclusion of Hydrometeor Variables. *Monthly Weather Review*, Volume : 139, Issue : 9, Pages : 2994-3015, Doi : 10.1175/2011MWR3632.1. Published : Septembre 2011.

**GMAP-2011-ACL-21** : Raynaud L., Berre L. and Desroziers G.: An extended specification of flow-dependent background error variances in the Météo-France global 4D-Var system. *Quarterly Journal of the Royal Meteorological Society*. Volume: 137, Issue: 656, Pages: 607-619, Part: Part a, Published: APR 2011. DOI: 10.1002/qj.795

**GMAP-2011-ACL-22** : Rivière G., 2011 : A Dynamical Interpretation of the Poleward Shift of the Jet Streams in Global Warming Scenarios. *Journal of the Atmospheric Sciences*, Volume : 68, Issue : 6, Pages : 1253-1272, Doi : 10.1175/2011JAS3641.1. Published : Juin 2011.

**GMAP-2011-ACL-23** : Varella, H., Berre L. and Desroziers G.: Diagnostic and impact studies of a wavelet formulation of background error correlations in a global model. *Quarterly Journal of the Royal Meteorological Society*, Volume : 137, Issue : 658, Special Issue : SI Pages : 1369-1379, Part : Part a, Published : JUL 2011. Doi : 10.1002/qj.845.

**GMAP-2011-ACL-24** : Wang Y., M. Bellus, C. Wittmann, M. Steinheimer, F. Weidle, A. Kann, S. Iatek-Sahdan, W. Tian, X. Ma, E. Bazile, 2011 :The Central European limited-area ensemble forecasting system: ALADIN-LAEF. Quarterly Journal of the Royal Meteorological Society, Volume 137, Issue 655, January 2011 Part B, Pages: 483–502. DOI: 10.1002/qj.751

## GMEI

**GMEI-2011-ACL-1** : Barthe, C., C. Mari, J.-P. Chaboureau, P. Tulet, F. Roux, and J.-P. Pinty., 2011: Numerical study of tracers transport by a mesoscale convective system over West Africa, Annales Geophysicae, Volume : 29, Issue : 5, Pages : 731-747, Doi : 10.5194/angeo-29-731-2011. Published : 2011.

**GMEI-2011-ACL-2** : Bennartz, R., A. Lauer, and J.-L. Brenguier 2011. Scale-aware integral constraints on autoconversion and accretion in regional and global climate models, Geophysical Research Letters, Volume: 38, Article Number: L10809, Published: MAY 28 2011. Doi : 10.1029/2011GL047618.

**GMEI-2011-ACL-3** : Brenguier, J.-L., F. Burnet, and O. Geoffroy, 2011 : Cloud optical thickness and liquid water path – does the k coefficient vary with droplet concentration?, Atmospheric Chemistry and Physics, Volume : 11, Issue : 18, Pages : 9771-9786, Doi : 10.5194/acp-11-9771-2011. Published : 2011.

**GMEI-2011-ACL-4** : Creamean, J., A. Ault, J.T. Hoeve, M. Jacobson, G. Roberts, and K. Prather, 2011: Measurements of aerosol chemistry during new particle formation events at a remote rural mountain site, Environmental Science & Technology, Volume : 45, Issue : 19, Pages : 8208-8216, Doi : 10.1021/es103692f. Published : OCT 1 2011.

**GMEI-2011-ACL-5** : Crumeyrolle, S., P. Tulet, L. Garcia-Carreras, C. Flamant, D. J. Parker, A. Matsuki, A. Schwarzenboeck, P. Formenti, and L. Gomes : Transport of dust particles from the Bodele region to the monsoon layer - AMMA case study of the 9-14 June 2006 period . Atmospheric Chemistry and Physics, Volume : 11 Issue: 2 Pages : 479-494 Published : 2011, 5051-5090. Doi : 10.5194/acp-11-479-2011.

**GMEI-2011-ACL-6** : Dossmann, Y, A., Paci, F, Auclair and J, W, Floor (2011) : Simultaneous velocity and density measurements for an energy-based approach to internal waves generated over a ridge. Experiments in Fluids, Volume : 51, Issue : 4, Pages : 1013-1028, Doi : 10.1007/s00348-011-1121-3. Published: OCT 2011.



**GMEI-2011-ACL-7** : Kulmala, M., A. Asmi, H. K. Lappalainen, U. Baltensperger, J.-L. Brenguier, M. C. Facchini, H.-C. Hansson, Hov, C. D. O'Dowd, U. Pöschl, A. Wiedensohler, R. Boers, O. Boucher, G. de Leeuw, H. Denier van den Gon, J. Feichter, R. Krejci, P. Laj, H. Lihavainen, U. Lohmann, G. McFiggans, T. Mentel, C. Pilinis, I. Riipinen, M. Schulz, A. Stohl, E. Swietlicki, E. Vignati, M. Amann, C. Alves, S. Arabas, P. Artaxo, D. C. S. Beddows, R. Bergström, J. P. Beukes, M. Bilde, J. F. Burkhardt, F. Canonaco, S. Clegg, H. Coe, S. Crumeyrolle, B. D'Anna, S. Decesari, S. Gilardoni, M. Fischer, A. M. Fjærraa, C. Fountoukis, C. George, L. Gomes, P. Halloran, T. Hamburger, R. M. Harrison, H. Herrmann, T. Hoffmann, C. Hoose, M. Hu, U. Hörrak, Y. Iinuma, T. Iversen, M. Josipovic, M. Kanakidou, A. Kiendler-Scharr, A. Kirkevåg, G. Kiss, Z. Klimont, P. Kolmonen, M. Komppula, J.-E. Kristjánsson, L. Laakso, A. Laaksonen, L. Labonnote, V. A. Lanz, K. E. J. Lehtinen, R. Makkonen, G. McMeeking, J. Merikanto, A. Minikin, S. Mirme, W. T. Morgan, E. Nemitz, D. O'Donnell, T. S. Panwar, H. Pawlowska, A. Petzold, J. J. Pienaar, C. Pio, C. Plass-Duelmer, A. S. H. Prévôt, S. Pryor, C. L. Reddington, G. Roberts, D. Rosenfeld, J. Schwarz, Ø. Seland, K. Sellegri, X. J. Shen, M. Shiraiwa, H. Siebert, B. Sierau, D. Simpson, J. Y. Sun, D. Topping, P. Tunved, P. Vaattovaara, V. Vakkari, J. P. Veefkind, A. Visschedijk, H. Vuollekoski, R. Vuolo, B. Wehner, J. Wildt, S. Woodward, D. R. Worsnop, G.-J. van Zadelhoff, A. A. Zardini, K. Zhang, P. G. van Zyl, V.-M. Kerminen, K. S. Carslaw, and S. N. Pandis, 2011 : General overview: 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 : 11, Issue : 24, Pages : 13061-13143, Doi : 10.5194/acp-11-13061-2011. Published : 2011.

**GMEI-2011-ACL-8** : Moore, M., H. Furutani, G.C. Roberts, R. Moffet, M. Gilles, B. Palenik, and K. Prather, Effect of Organic Compounds on Cloud Condensation Nuclei (CCN) Activity of Sea Spray Aerosol Produced by Bubble Bursting, Atmospheric Environment, Volume : 45, Issue : 39, Pages : 7462-7469, Doi : 10.1016/j.atmosenv.2011.04.034. Published : DEC 2011.

**GMEI-2011-ACL-9** : Tulet P. and N. Villeneuve, 2011. Large scale modeling of the transport, chemical transformation and mass budget of the sulfur emitted during the April 2007 eruption of Piton de la Fournaise. Atmospheric Chemistry and Physics, Volume : 11, Issue : 9, Pages : 4533-4546, Doi : 10.5194/acp-11-4533-2011. Published : 2011.

## GMGEC

**GMGEC-2011-ACL-1** : Alessandri, A., A. Borelli, A. Navarra, A. Arribas, M. Déqué, M., P. Rogel, and A. Weisheimer, : Evaluation of Probabilistic Quality and Value of the ENSEMBLES Multimodel Seasonal Forecasts: Comparison with DEMETER. Monthly Weather Review, Volume : 139, Issue : 2, Pages : 581-607, Published : FEB 2011. Doi : 10.1175/2010MWR3417.1.

**GMGEC-2011-ACL-2** : Alkama R., B. Decharme, H. Douville, and A. Ribes, 2011 : Trends in Global and Basin-Scale Runoff over the Late Twentieth Century: Methodological Issues and Sources of Uncertainty. Journal of Climate, Volume : 24, Issue : 12, Pages : 3000-3014, Doi : 10.1175/2010JCLI3921.1. Published : Juin 2011.

**GMGEC-2011-ACL-3** : Bais A.F., K. Tourpali, A. Kazantzidis, H. Akiyoshi, S. Bekki, P. Braesicke, M. P. Chipperfield, M. Dameris, V. Eyring, H. Garny, D. Iachetti, P. Jockel, A. Kubin, U. Langematz, E. Mancini, M. Michou, O. Morgenstern, T. Nakamura, P. A. Newman, G. Pitari, D. A. Plummer, E. Rozanov, Projections of UV radiation changes in the 21st century: impact of ozone recovery and cloud effects, Atmospheric Chemistry and Physics, Volume: 11, Issue: 15, Pages: 7533-7545, DOI: 10.5194/acp-11-7533-2011, Published: 2011.

**GMGEC-2011-ACL-4** : Batté, L., and M. Déqué, 2011: Seasonal predictions of precipitation over Africa using coupled ocean-atmosphere general circulation models : skill of the ENSEMBLES project multimodel ensemble forecasts. Tellus SERIES A-Dynamic Meteorology and Oceanography, Volume : 63, Issue : 2, Pages : 283-299, Published : MAR 2011. Doi : 10.1111/j.1600-0870.2010.00493.x.

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**GMGEC-2011-ACL-6** : Bellon, G., G. Gastineau, A. Ribes, and H. Le Treut, 2011: Analysis of the tropical climate variability in a two-column framework, *Climate Dynamics*, Volume : 37, Issue : 1-2, Pages : 73-81, Published : JUL 2011. Doi : 10.1007/s00382-010-0864-5.

**GMGEC-2011-ACL-7** : Bellon, G., 2011: Monsoon intraseasonal oscillation and land-atmosphere interaction in an idealized model, *Climate Dynamics*, Volume : 37, Issue : 5, 1081-1096, Published : SEPT 2011. Doi:10.1007/s00382-010-0893-0.

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**GMGEC-2011-ACL-15** : Douville, H., S. Bielli, C. Cassou, M. Déqué, N. Hall, S. Tyteca, A. VolDoire, 2011: Tropical influence on boreal summer mid-latitude stationary waves. *Climate Dynamics*, Volume : 37, Issue : 9-10, Pages : 1783-1798, Doi : 10.1007/s00382-011-0997-1. Published : Novembre 2011.



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**GMGEC-2011-ACL-20** : Giordani, H., and G. Caniaux, 2011 : Diagnosing vertical motion in the equatorial Atlantic. *Ocean Dynamics*, volume 61, pages: 1995-2018, PUBLISHED: July 19 2011,doi :10.1007/s10236-011-0467-7.

**GMGEC-2011-ACL-21** : Guemas V., D. Salas-Mélia, M. Kageyama, H. Giordani, and A. Voldoire, 2011 : Impact of the Ocean Mixed Layer Diurnal Variations on the Intraseasonal Variability of Sea Surface Temperatures in the Atlantic Ocean. *Journal of Climate*, Volume : 24, Issue : 12, Pages: 2889-2914, Doi : 10.1175/2010JCLI3660.1. Published : Juin 2011.

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**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, Buenaos Aires, Argentine.

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## 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

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## 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.

# C-ACTI

**Communications avec actes dans un congrès international**



# 2011

## GMAP

**GMAP-2011-C-ACTI-1** : August T, L. Lavanant, T. Perttula, N. Fourrié, V. Guidard and F. Rabier, 2011: Validation of IASI atmospheric retrievals over Antarctica with Concordiasi data, EUMETSAT conference, September 2011.

**GMAP-2011-C-ACTI-2** : Doerenbecher A., C. Fesquet, C. Basdevant, P. Cocquerez and N. Verdier: Boundary Layer Balloons in the Mediterranean During HyMeX. 20th ESA Symposium on European Rocket and Balloons Programmes and Related Research, 599-606

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**GMEI-2011-C-ACTI-2** : Bennouna, Y.S., J. Andrey; M.J. Granados; J.L. Gómez-Amo; B. Pigué; A. Minikin; J. Jensen; R. Krejci "An aircraft intercomparison for the measurement of aerosol size distribution during the ICARE 2010 intercalibration flights", par présenté à : V Reunión Española de Ciencia y Tecnología de Aerosoles– RECTA 2011. Conférence du 27 au 29 Juin 2011.

**GMEI-2011-C-ACTI-3** : Bouin M.N., D. Legain, O. Traullé, S. Belamari , A. Fiandrino, F. Lagarde, J. Barrié, E. Moulin, et G. Bouhours "Scintillometry: a new tool to retrieve sensible heat fluxes over sea and lakes, European Geoscience Union General Assembly, Vienna, Austria, 03–08 April 2011.

**GMEI-2011-C-ACTI-4** : Bousquet O., J. Gourley, E. Anagnostou, D. Jorgensen, J. Van-Baelen, J. Beck, Y. Dufournet, A. Berne, and M. Hagen: The weather radar component of HyMeX. 35th Conference on Radar Meteorology . 26-30 September 2011, Pittsburgh, PA, USA

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**GMEI-2011-C-ACTI-7** : Dossmann, Y., A. Paci, and F. Auclair (2011): Interaction of internal gravity waves with strong density gradients in numerical simulations and laboratory experiments, International Symposium on Stratified Flows (ISSF 2011), 22-26 May 2011, Roma, Italy

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**GMEI-2011- C-ACTI-9** : Lei M., et C. Baehr : RBPF-based Tracker with Adaptive Parameter Model for Maneuvering Tracking. 2nd International Conference on Computer Science and Automation Engineering - Shanghai, China, 10-12 Juin 2011.

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**CEN-2011-C-ACTI-1** : Flin, F., Lesaffre, B., Dufour, A., Gillibert, L., Hasan, A., Rolland du Roscoat, S., Cabanes, S. and Pugliese, P. : On the Computations of Specific Surface Area and Specific Grain Contact Area from Snow 3D Images, in Furukawa, Y., ed., 'Physics and Chemistry of Ice', Hokkaido University Press, Sapporo, Japan, Proceedings of the 12th International Conference on the Physics and Chemistry of Ice held at Sapporo, Japan, 5-10 September 2010, Pages : 321-328, 2011.

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**CEN-2011-C-ACTI-4** : Piazza, M., M. Deque, Y. Durand, I. Etchevers, G. Giraud, E. Martin, L. Méridol, C. Page, E. Sanchez-Gomez, M. Rousselot et L. Terray : Evaluation du changement climatique sur les zones de montagne en France à partir des méthodes de régionalisation. Société Hydrologique de France, Lyon, mars 2011.

## MULTI-GROUPES

**GMEI-GMME-2011-C-ACTI-1** : Beck J., O. Bousquet and M. Nuret: Real-time multiple-Doppler wind fields from RHYTMME and ARAMIS radars with implications for data assimilation within AROME for southeast France. 35th Conference on Radar Meteorology . 26-30 September 2011, Pittsburgh, PA, USA

**GMEI-GMME-2011-C-ACTI-2** : Bousquet O., J. Beck, M. Nuret, E Bresson, O. Nuissier and V. Ducrocq : Observation and Numerical Modeling of an Exceptionally Intense Orographic Precipitation Event in Southern France. 14th Conference on Mesoscale Processes, 1–4 August 2011, Los Angeles, California.

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# C-ACTN

**Communications avec actes dans un congrès national**

# 2011

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**GMME-2011-C-ACTN-1** : F. Couvreur, le 10 juillet un cas d'étude de l'initiation de la convection locale en zone semi-aride, Atelier de Modélisation de l'Atmosphère, Février 2011 l'article suivant est classé comme ACL, alors qu'il n'est pas encore accepté :

**GMME-2011-C-ACTN-2** : Piazza, M., Déqué, M., Durand, Y., Etchevers, I., Giraud, G., Martin, E., Mérindol, L., Pagé, C., Sanchez-Gomez, L., Terray, L., Li, L., Gallée, H. and Jomelli, V., 2011: Evaluation du changement climatique sur les zones de montagne en France à partir des méthodes de régionalisation, 2011.01.28, 8

**GMME-2011-C-ACTN-3** : Singla, S., Céron, J.-P., Martin, E., Regimbeau, F., Déqué, M., Habets, F. and Vidal, J.-P.: Predictability of soil moisture and river flows over France for the spring season, Hydrology and Earth System Sciences Discussions, 8, 7947--7986, 2011.

# 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.**



# 2011

## GMAP

**GMAP-2011-AP-1** : Sharanya J. Majumdar, Sim D. Aberson, Craig H. Bishop, Carla Cardinali, Jim Caughey, Alexis Doerenbecher, Pierre Gauthier, Ronald Gelaro, Thomas M. Hamill, Rolf H. Langland, Andrew C. Lorenc, Tetsuo Nakazawa, Florence Rabier, Carolyn A. Reynolds, Roger Saunders, Yucheng Song, Zoltan Toth, Christopher Velden, Martin Weissmann, Chun-Chieh Wu: Targeted Observations For Improving Numerical Weather Prediction: An Overview. WWRP/THORPEX No. 15.

**GMAP-2011-AP-2** : Farge, M., K. Schneider, O. Pannekoucke and R. Nguyen van Yen: Handbook on environmental fluid dynamics: Multiscale methods for fluid dynamics: fractals, self-similar random processes and wavelets. Taylor and Francis Publisher

**GMAP-2011-AP-4** : Rabier F. contributor to "Understanding Earth's Polar Challenges: International Polar Year 2007-2008 SUMMARY BY THE IPY JOINT COMMITTEE" <http://www.icsu.org/publications/reports-and-reviews/ipy-summary>, mars 2011, 724 pages

**GMAP-2011-AP-5** : F. Rabier: "D'ici, la Terre se précise..." de Coralie Hancock, *Sciences et vie*, numéro Hors série, "Antarctique, le continent du futur", décembre 2011, 122-123

## GMEI

**GMEI-2011-AP-1** : Alexander D., E. Pardyjak, M. Lothon, S. Derrien, J. Reuder, D. Legain, O. Traulle, H. Pietersen, O. Decoster, G. Canut, C. Darbieu, A. Garai, E. Pique, Investigation of the decay of turbulence over a forest during the Boundary Layer Late Afternoon and Sunset Turbulence (BLLAST) Experiment, AGU Fall Meeting 2011: 5-9 December, San Francisco, CA, USA.

**GMEI-2011-AP-2** : Baehr C., Some studies about the impact of ICAO Met data format. Workshop EUROCAE WG85. Madrid (Spain) 28 Septembre 2011

**GMEI-2011-AP-3** : Baehr C., An example of Wavelet Analysis: relationship between the water temperature and phytoplankton cell diameters. Chine Academy for Fishery Sciences. Guangzhou (Rep. Pop. Chine) 15 Décembre 2011

**GMEI-2011-AP-4** : Bousquet O. and co-authors, 2011: Weather Radar Data & Products Available in HyMeX SOPs. 5<sup>th</sup> HyMeX workshop, Menorca, Spain, 17-19 May 2011.

**GMEI-2011-AP-5** : Bousquet O., 2011: Retrieving high resolution 3-D wind vector fields from operational radar networks, "Doppler Radar", Intech Publishing, ISBN 979-953-307-352-0, 28pp. (contribution ouvrage)

**GMEI-2011-AP-6** : Buguet, M., S. Coquillat, S. Soula, C. Barthe, M. Chong, O. Bousquet and J. F. Georgis, 2011: Relationships between lightning activity, microphysics, and kinematics in thunderclouds above the Paris region: an analysis method that will be used during the HyMeX SOP. 5<sup>th</sup> HyMeX workshop, Menorca, Spain, 17-19 May 2011.

**GMEI-2011-AP-7** : Colin J. (2011) : Vers une version veine hydraulique de Meso-NH, Sixième réunion des utilisateurs de Meso-NH, Toulouse, octobre 2011

**GMEI-2011-AP-8** : T. Elias, J.-C. Dupont, M. Haeffelin, L. Gomes, F. Burnet, et D. Jolivet, Exploiter la base de données du SIRTa pour la prévision du brouillard: étude préparatoire de PreViBOSS, Journée scientifique du SIRTa, Palaiseau, 3 mai 2011.

**GMEI-2011-AP-9** : Gourley, J., Y. Hong, E. Anagnostou, O. Bousquet and D. Jorgensen, 2011: HyFLOW: HYdrometeorological Field Laboratory On Wheels. 5th HyMeX workshop, Menorca, Spain, 17-19 May 2011.

**GMEI-2011-AP-10** : Haeffelin M, J.C Dupont, C. Boitel, N. Boyouk, F. Lapouge, Y. Morille, C. Pietras, B. Romand, T. Elias, L. Gomes, F. Burnet, T. Bourriane, A. Protat, J. Delanoë, D. Richard, L. Musson-Genon, E. Dupont, Y. Lefranc, T. Lhoir, J. Sciare and J. Nicolas, The PARISFOG Field Campaign at SIRTa Site, Second Atmospheric System Research (ASR) Science Team Meeting, March 28-April 1, 2011, San Antonio, Texas

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**GMEI-2011-AP-12** : Pardyjak E., D. Alexander, M. Lothon, F. Lohou, S. Derrien, J. Reuder, D. Legain, O. Traulle, H. Pietersen, O. Decoster, G. Canut, C. Darbieu, A. Garai, E. Pique, First results from the surface heterogeneity focus area of the Boundary Layer Late Afternoon and Sunset Turbulence (BLLAST) Experiment, AGU Fall Meeting 2011: 5-9 December, San Francisco, CA, USA.

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**GMME-2011-AP-15** : Nuissier, O., Vié, B, Ducrocq, V. and Bouttier F., 2011: Towards an AROME ensemble prediction system: assessment in a heavy precipitation event framework in Mediterranean region. Joint SRNWP workshop on Data Assimilation and Ensemble Prediction System, 23-25 Feb. 2011, Bologna, Italy.

**GMME-2011-AP-16** : Pokrovsky, I., Pokrovsky, O. & Roujean, J.-L.,2011: An estimation of surface albedo from the SEVIRI/MSG observing system by using POLDER BRDF measurements., in Polarimetric Detection, Characterization and Remote Sensing, NATO, Science for Peace and Security, Ed. M.I. Mishchenko and al, Publisher : Springer Science and Business Media B.V., 341-382., 10.1007/978-94-007-1636-0-14 .

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**GMME-2011-AP-23** : Vincendon, B., Ducrocq V., Nuissier O., and Vié, B. : Hydrometeorological ensemble forecasting of Mediterranean flash-flood events, 5th Hymex workshop, Punta Prima (Sant Lluís), Menorca, Spain, 17-19 May 2011, orale presentation

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**GMME-2011-AP-25** : Vincendon, B., Ducrocq, V., Nuissier, O., and Vié, B.: Hydrometeorological ensemble forecasting of Mediterranean flash flood events, WRaH (Weather Radar and Hydrology), april 2011, Exeter, Great Britain, oral presentation

## CEN

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