



# **PUBLICATIONS / PRODUCTIONS**

**du laboratoire**

**CNRM, UMR 3589**

**ANNEE 2017**

**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...)**



# 2017

## GMAP

**GMAP-2017-ACL-1** : Arbogast, E., G. Desroziers and L. Berre: A parallel implementation of a 4DEnVar ensemble. Quarterly Journal of the Royal Meteorological Society, Volume : 143, Issue : 706, Pages : 2073-2083, Part : A, Doi : 10.1002/qj.3061. Published : JUL 2017.

**GMAP-2017-ACL-2** : Birman, C., J.-F. Mahfouf, M. Milz, J. Mendrok, S. A. Buehler, M. Brath (2016) : Information content on hydrometeors from millimeter and sub-millimeter wavelengths, TELLUS SERIES A-Dynamic Meteorology and Oceanography, Volume : 69, Article Number : 1271562, Doi : 10.1080/16000870.2016.1271562. Published : 2017.

**GMAP-2017-ACL-3** : Chabot V., L. Berre and G. Desroziers, 2017 : Diagnosis and normalisation of gridpoint background error variances induced by a block-diagonal wavelet covariance matrix - Quarterly Journal of the Royal Meteorological Society, Volume : 143, Issue : 704, Pages : 1268-1279, Part : A, Doi : 10.1002/qj.3003. Published : APR 2017.

**GMAP-2017-ACL-4** : Colavolpe, C., F. Voitus and P. Bénard, 2017 : RK-IMEX HEVI schemes for fully-compressible atmospheric models with advection: analyses and numerical testing ; Quarterly Journal of the Royal Meteorological Society, Volume : 143, Issue : 704, Pages : 1336-1350, Part : A, Doi : 10.1002/qj.3008. Published : APR 2017.

**GMAP-2017-ACL-5** : Drobinski, P., B. Alonzo, C. Basdevant, P. Cocquerez, A. Doerenbecher, N. Fourrié and M. Nuret : Lagrangian dynamics of the mistral during the HyMeX SOP2. Journal of Geophysical Research-Atmospheres, Volume : 122, Issue : 3, Pages : 1387-1402. Published: FEB 16 2017.

**GMAP-2017-ACL-6** : Duerinckx, A., R. Hamdi, A. Deckmyn, A. Djebbar, J.-F. Mahfouf and P. Termonia, 2017 : Combining an EKF soil analysis with a 3D-Var upper-air assimilation in a limited area NWP-model. Quarterly Journal of the Royal Meteorological Society, Volume : 143, Issue : 709, Pages : 2999-3013, Part : B, Doi : 10.1002/qj.3141. Published : OCT 2017.

**GMAP-2017-ACL-7** : Duruisseau F., P. Chambon, S. Guedj, V. Guidard, N. Fourrié, F. Taillefer, P. Brousseau, J.-F. Mahfouf and R. Roca, 2017 : Investigating the potential benefit of a Microwave sounder on-board a geostationary satellite on Numerical Weather Prediction with a meso-scale model. Quarterly Journal of the Royal Meteorological Society, Volume : 143, Issue : 706, Pages : 2104-2115, Part : A, Doi : 10.1002/qj.3070. Published : JUL 2017.

**GMAP-2017-ACL-8** : Geer, A.J., F. Baordo, N. Bormann, P. Chambon, S. J. English, M. Kazumori, H. Lawrence, P. Lean, K. Lonitz and C. Lupu, 2017 : The growing impact of satellite observations sensitive to humidity, cloud and precipitation. Quarterly Journal of the Royal Meteorological Society, Volume : 143, Issue : 709, Pages : 3189-3206, Part : B, Doi : 10.1002/qj.3172. Published : OCT 2017.

**GMAP-2017-ACL-9** : Geer, A.J., K. Lonitz, P. Weston, M. Kazumori, K. Okamoto, Y. Zhu, E.H. Liu, A. Collard, W. Bell, S. Migliorini, P. Chambon, N. Fourrié, M.-J. Kim, C. Köpken-Watts and C. Schraff, 2017 : All-sky satellite data assimilation at operational weather forecasting centres. Quarterly Journal of the Royal Meteorological Society, Doi : 10.1002/qj.3202. Published : 14 November 2017.

**GMAP-2017-ACL-10** : Geleyn J-F., J. Mašek, R. Brožková, P. Kuma, D. Degrauwe, G. Hello and N. Pristov, 2017 : Single interval longwave radiation scheme based on the net exchanged rate decomposition with bracketing. Quarterly Journal of the Royal Meteorological Society, Volume : 143, Issue : 704, Pages : 1313-1335, Part : A, Doi : 10.1002/qj.3006. Published : APR 2017.



**GMAP-2017-ACL-11** : Hersbach, H., S. Brönnimann, L. Haimberger, M. Mayer, L. Villiger, J. Comeaux, A. Simmons, D. Dee, S. Jourdain, C. Peubey, P. Poli, N. Rayner, A. M. Sterin, A. A. Simmons, D. Dee, S. Jourdain, C. Peubey, P. Poli, N. Rayner, A. M. Sterin, A. Stickler, M. A. Valente and S. J. Worley, 2017 : The potential value of early upper-air data in atmospheric climate reanalysis. Quarterly Journal of the Royal Meteorological Society, Volume : 143, Issue : 704, Pages : 1197-1210, Part : A, Doi : 10.1002/qj.3040. Published : APR 2017.

**GMAP-2017-ACL-12** : Marquet, P.: A Third-Law Isentropic Analysis of a Simulated Hurricane. Journal of the Atmospheric Sciences, Volume : 74, Issue : 10, Pages : 3451-3471, Doi : 10.1175/JAS-D-17-0126.1. Published : OCT 2017.

**GMAP-2017-ACL-13** : Neggers, R. A. J. , A. S. Ackerman, W. M. Angevine, E. Bazile, I. Beau, P. N. Blossey, I. A. Boutle, C. De Bruijn, A. Cheng, J. Van der Dussen, J. Fletcher, S. Dal Gesso, A. Jam, H. Kawai, S. K. Cheedela, V. E. Larson, M.-P. Lefebvre, A. P. Lock, N. R. Meyer, S. R. De Roode, W. De Rooy, I. Sandu, H. Xiao, K.-M. Xu. Single-Column Model Simulations of Subtropical Marine Boundary-Layer Cloud Transitions Under Weakening Inversions. Journal of Advances in Modeling Earth Systems, Volume : 9, Issue : 6, Pages : 2385-2412, Doi : 10.1002/2017MS001064. Published : OCT 2017

**GMAP-2017-ACL-14** : Vignon E. Hourdin F., Genthon G., Gallée H., Bazile E. Lefebvre M-P, Madeleine J-B, Van de Wiel B.J.H, Antarctic boundary layer parametrization in a general circulation model: 1-D simulations facing summer observations at Dome Cfirst. Journal of Geophysical Research-Atmospheres, Volume : 122, Issue : 13, Pages : 6818-6843, Doi : 10.1002/2017JD026802. Published : JUL 16 2017.

## GMEI

**GMEI-2017-ACL-1** : Arndt J., J. Sciare, M. Mallet, G. Roberts, N. Marchand, K. Sartelet, K. Sellegri, F. Dulac, R. M. Healy, and J. C. Wenger, 2017 : Sources and mixing state of summertime background aerosol in the northwestern Mediterranean basin. Atmospheric Chemistry and Physics, Volume : 17, Issue : 11, Pages : 6975-7001, Doi : 10.5194/acp-17-6975-2017. Published : JUN 14 2017.

**GMEI-2017-ACL-2** : Bordoïs, L., F. Auclair, A. Paci, Y. Dossmann and C. Nguyen (2017). Non-linear processes generated by supercritical tidal flow in shallow straits. Physics of Fluids, Volume: 29, Issue: 6, Article Number: 066603, DOI : 10.1063/1.4986260. Published: JUN 2017.

**GMEI-2017-ACL-3** : Brooks, I. M., Tjernström, M., Persson, P. O. G., Shupe, M. D., Atkinson, R. A., Guylaine Canut, Cathryn E. Birch, Thorsten Mauritsen, Joseph Sedlar, and Barbara J. Brooks, 2017 : The turbulent structure of the Arctic summer boundary layer during The Arctic Summer Cloud-Ocean Study. Journal of Geophysical Research-Atmospheres, Volume: 122, Issue: 18, Pages: 9685-9704, DOI: 10.1002/2017JD027234. Published: SEP 27 2017.

**GMEI-2017-ACL-4** : Martinet, P., Cimini, D., De Angelis, F., Canut, G., Unger, V., Guillot, R., Tzanos, D., and Paci, A., : Combining ground-based microwave radiometer and the AROME convective scale model through 1DVAR retrievals in complex terrain: an Alpine valley case study. Atmospheric Measurement Techniques, Volume : 10, Issue : 9, Pages : 3385-3402, Doi : org/10.5194/amt-10-3385-2017. Published : SEP 18 2017.

**GMEI-2017-ACL-5** : Ovadnevaite J., A. Zuend, A. Laaksonen, K. J. Sanchez, G. Roberts, D. Ceburnis, S. Decesari, M. Rinaldi, N. Hodas, M. C. Facchini, J. H. Seinfeld & C. O' Dowd 2017 : Surface tension prevails over solute effect in organic-influenced cloud drople activation. Nature, Volume : 546, Issue : 7660, Pages : 637-641, Doi : 10.1038/nature22806. Published : JUN 29 2017.



**GMEI-2017-ACL-6** : Reddington, C., K. Carslaw, P. Stier, N. Schutgens, H. Coe, D. Liu, J. Allan, J. Browse, K. Pringle, L. Lee, M. Yoshioka, J. S. Johnson, L. A. Regayre, D. V. Spracklen, G. W. Mann, A. Clarke, M. Hermann, S. Henning, H. Wex, T. B. Kristensen, W. R. Leaitch, U. Poeschl, D. Rose, M. O. Andreae, J. Schmale, Y. Kondo, N. Oshima, J. Schwarz, A. Nenes, B. E. Anderson, G. Roberts, J. Snider, C. Leck, P. K. Quinn, X. Chi, A. Ding, J. Jimenez, Q. Zhang, The Global Aerosol Synthesis and Science Project (GASSP): Measurements and modelling to reduce uncertainty. *Bulletin of American Meteorological Society*, Volume: 98, Issue: 9, Pages: 1857-1877, Doi : 10.1175/BAMS-D-15-00317.1. Published: SEP 2017.

**GMEI-2017-ACL-7** : Rottner, L., C. Baehr, A. Dabas, L. Hammoud; Stochastic Method for Turbulence Estimation from Doppler Lidar Measurements. *Journal of Applied Remote Sensing*, Volume: 11, Article Number: 046001, Doi: 10.1117/1.JRS.11.046001. Published: OCT 2 2017.

**GMEI-2017-ACL-8** : Sachspurger, J., S. Serafin, V. Grubišić, I. Stiperski and A. Paci, 2017 : The amplitude of lee waves on the boundary-layer inversion (pages 27–36). *Quarterly Journal of the Royal Meteorological Society*, Volume : 143, Issue : 702, Special Issue : UNDEFINED, Supplement : UNDEFINED, Pages : 27-36, Part : A, Doi : 10.1002/qj.2915. Published : JAN 2017.

**GMEI-2017-ACL-9** : Sanchez, K. J., G. C. Roberts, R. Calmer, K. Nicoll, E. Hashimshoni, D. Rosenfeld, J. Ovadnevaite, J. Preissler, D. Ceburnis, C. O'Dowd, L. M. Russell : Top-down and Bottom-up aerosol-cloud-closure: towards understanding sources of uncertainty in deriving cloud radiative flux. *Atmospheric Chemistry and Physics*, Volume: 17, Issue: 16, Pages: 9797-9814, Doi : 10.5194/acp-2017-201. Published: AUG 22 2017.

**GMEI-2017-ACL-10** : Schwier, A.N., K. Sellegri, S. Mas, B. Charrière, J. Pey, C. Rose, B. Terminé-Roussel, J.-L. Jaffrezo, D. Parin, D. Picard, M. Ribeiro, G.C. Roberts, R. Sempéré, N. Marchand, B. D'Anna. Primary marine aerosol physical and chemical emissions during a nutrient enrichment experiment in mesocosms in the Mediterranean Sea. *Atmospheric Chemistry and Physics*, Volume : 17, Pages : 4645-14660, Doi : 10.5194/acp-17-14645-2017. Published : 08 Dec 2017.

**GMEI-2017-ACL-11** : Stiperski, I., S. Serafin, A. Paci, H. Ágústsson, A. Belleudy, R. Calmer, K. Horvath, C. Knigge, J. Sachspurger, L. Strauss and V. Grubisic (2017). Water tank experiment on stratified flow over double mountain-shaped obstacles at high Reynolds number. *Atmosphere*, Volume: 8, Issue: 1, Article Number: 13, Doi : 10.3390/atmos8010013. Published: JAN 2017.

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**GMEI-2017-ACL-13** : Tulet, P., Di Muro, A., Colomb, A., Denjean, C., DufLOT, V., Arellano, S., Foucart, B., Brioude, J., Sellegri, K., Peltier, A., Aiuppa, A., Barthe, C., Bhugwant, C., Bielli, S., Boissier, P., Boudoire, G., Bourriane, T., Brunet, C., Burnet, F., Cammas, J.-P., Gabarrot, F., Galle, B., Giudice, G., Guadagno, C., Jeamblu, F., Kowalski, P., Leclair de Bellevue, J., Marquestaut, N., Mékies, D., Metzger, J.-M., Pianezze, J., Portafaix, T., Sciare, J., Tournigand, A., and Villeneuve, N.: First results of the Piton de la Fournaise STRAP 2015 experiment: multidisciplinary tracking of a volcanic gas and aerosol plume, *Atmospheric Chemistry and Physics*, Volume: 17, Issue: 8, Pages: 5355-5378, Doi : 10.5194/acp-17-5355-2017. Published: APR 25 2017.

**GMEI-2017-ACL-14** : Vignon, E., van de Wiel, B. J. H., van Hooijdonk, I. G. S., Genthon, C., van der Linden, S. J. A., van Hooft, J. A., Baas, P., Maurel, W., Traullé, O. and Casasanta, G. (2017), Stable boundary-layer regimes at Dome C, Antarctica: observation and analysis. *Quarterly Journal of the Royal Meteorological Society*, Volume : 143, Issue : 704, Pages : 1241-1253, Part : A, Doi : 10.1002/qj.2998. Published: APR 2017.





## GMGEC

**GMGEC-2017-ACL-1** : Abida, R., Attié, J.-L., El Amraoui, L., Ricaud, P., Lahoz, W., Eskes, H., Segers, A., Curier, L., de Haan, J., Kujanpää, J., Nijhuis, A. O., Tamminen, J., Timmermans, R., and Veefkind, P.: Impact of spaceborne carbon monoxide observations from the S-5P platform on tropospheric composition analyses and forecasts. *Atmospheric Chemistry and Physics*, Volume : 17, Issue : 2, Pages : 1081-1103, Doi : 10.5194/acp-17-1081-2017. Published : JAN 24 2017.

**GMGEC-2017-ACL-2** : Adloff, F., G. Jordà, S. Somot, F. Sevault, T. Arsouze, B. Meyssignac, L. Li, S. Planton, 2017 : Improving sea level simulation in Mediterranean regional climate models. *Climate Dynamics*, Pages : 1-12, Doi : 10.1007/s00382-017-3842-3. Published : AUG 9 2017

**GMGEC-2017-ACL-3** : Anderson, D. C., J. M. Nicely, G. M. Wolfe, T. F. Hanisco, Ross J. Salawitch, T. P. Canty, R. R. Dickerson, E. C. Apel, E. Atlas, S. Baidar, T. J. Bannan, N. J. Blake, D. Chen, B. Dix, R. P. Fernandez, S. R. Hall, R. S. Hornbrook, G. Huey, B. Josse, P. Jöckel, D. E. Kinnison, T. K. Koenig, M. LeBreton, V. Marécal, O. Morgenstern, L. D. Oman, L. L. Pan, C. Percival, D. Plummer, L. Revell, E. Rozanov, A. Saiz-Lopez, A. Stenke, S. Tilmes, K. Ullmann, R. Volkamer, A. J. Weinheimer, G. Zeng, Formaldehyde in the Tropical Western Pacific: Evaluation of controlling mechanisms, models, and its effects on the atmospheric oxidative capacity *J. Geophys. Res.*, vol. 122, 20, 11,201–11,226, 10.1002/2016JD026121, 2017.

**GMGEC-2017-ACL-4** : Ardilouze, C., Batté, L., Bunzel, F., Decremier, D., Déqué, M., Doblas-Reyes, F.J., Douville, H., Fereday, D., Guemas, V., MacLachlan, C., Müller, W., Prodhomme, C., 2017 : Multi-model assessment of the impact of soil moisture initialization on mid-latitude summer predictability. *Climate Dynamics*, Volume: 49, Issue: 11-12, Pages: 3959-3974, Doi: 10.1007/s00382-017-3555-7. Published: DEC 2017..

**GMGEC-2017-ACL-5** : Ardilouze, C., Batté, L., Déqué, M., 2017 : Subseasonal-to-seasonal (S2S) forecasts with CNRM-CM : a case study on the July 2015 West-European heat wave. *Advances in Science and Research*, Volume: 10, Pages: 115-121, Doi: 10.5194/asr-14-115-2017. Published: MAY 5 2017.

**GMGEC-2017-ACL-6** : Arndt, J., J. Sciare, M. Mallet, G. Roberts, N. Marchand, F. Dulac, R. M. Healy, and J. Wenger, Sources and mixing state of background aerosol in the Western Mediterranean Basin. *Atmospheric Chemistry and Physics*, Volume: 17, Issue: 11, Pages: 6975-7001, Doi : 10.5194/acp-17-6975-2017. Published: JUN 14 2017.

**GMGEC-2017-ACL-7** : Astudillo, O., B. Dewitte, M. Mallet, F. Frappart, J. Rutllant, M. Ramos, L. Bravo, K. Goubanova, S. Illig,. Surface winds off Peru-Chile: Observing closer to the coast from radar altimetry. *Remote Sensing of Environment*, Volume: 191, Pages: 179-196, DOI: 10.1016/j.rse.2017.01.010. Published: MAR 15 2017.

**GMGEC-2017-ACL-8** : Bador, M., Terray L., Boé J., Somot S., Alias A., Gibelin A.-L., Dubuisson B., 2017 : Future summer mega-heatwave and record-breaking temperatures in a warmer France climate. *Environmental Research Letters*, Volume : 12, Issue : 7, Article Number : 074025, Doi : 10.1088/1748-9326/aa751c. Published : JUL 2017.

**GMGEC-2017-ACL-9** : Barragan, R., M. Sicard, J. Totems, J.F. Leon, F. Dulac, M. Mallet et al. Spatio-temporal monitoring by ground-based and air- and space-borne lidars of a moderate Saharan dust event affecting southern Europe in June 2013 in the framework of the ADRIMED/ChArMEX campaign. *Air Quality Atmosphere and Health*, Volume: 10, Issue: 3, Pages: 261-285, Doi : 10.1007/s11869-016-0447-7. Published: APR 2017.

**GMGEC-2017-ACL-10** : Bellprat, O., J. García-Serrano, N. Fučkar, F. Massonnet, V. Guemas, and F. J. Doblas-Reyes, 2017 : The Role of Arctic Sea Ice and Sea Surface Temperatures on the Cold 2015 February Over North America *AMS. 1 Bulletin of the American Meteorological Society* December 2016, Vol. 97, No. 12, Doi : Doi : 10.1175/BAMS-D-16-0159. Published 12 Jan 2017.



**GMGEC-2017-ACL-11** : Benavent-Oltra, J.A., R. Roméan, M. J. Granados-Munoz, D. Pérez-Ramirez, P. Ortiz-Amezcuca, C. Denjean, A. Lopatin, H. Lyamani, B. Torres, J. L. Guerrero-Rascado, D. Fuertes, O. Dubovik, A. Chaikovskiy, F.J. Olmo, M. Mallet and L. Alados-Arboledas. Comparative assessment of GRASP algorithm for a dust event over Granada (Spain) during ChArMEx-ADRIMED 2013 campaign. *Atmospheric Measurement Techniques*, Volume: 10, Issue: 11, Pages: 4439-4457, DOI: 10.5194/amt-10-4439-2017. Published: NOV 17 2017.

**GMGEC-2017-ACL-12** : Berland, K., C. Rose, J. Pey, A. Culot, E. Freney, N. Kalivitis, N. Kouvakaris, J.C. Cerro, M. Mallet, K. Sartelet, M. Beckmann, T. Bourriane, G. Roberts, N. Marchand, N. Mihalopoulos and K. Sellegri. Spatial extend of new particle events over the Mediterranean basin from multiple ground-based and airborne measurements. *Atmospheric Chemistry and Physics*, Volume: 17, Issue: 15, Pages: 9567-9583, Doi: 10.5194/acp-17-9567-2017. Published: AUG 9 2017.

**GMGEC-2017-ACL-13** : Blanchard-Wrigglesworth, E., A. Barthélemy, M. Chevallier, R. Cullather, N. Fučkar, F. Massonnet, P. Posey, W. Wang, J. Zhang, C. Ardilouze, M. Bitz, G. Vernieres, A. Wallcraft and M. Wang, 2017 : Multi-model seasonal forecast of Arctic sea-ice: forecast uncertainty at pan-Arctic and regional scales. *Climate Dynamics*, Volume : 49, Issue : 4, Pages : 1399-1410, Doi : 10.1007/s00382-016-3388-9. Published : AUG 2017 .

**GMGEC-2017-ACL-14** : Bravo-Aranda, J.A., G. A. Moreira, J.L. Guerrero-Rascado, M. J. Granados-Munoz, F. Navas-Guzman, F.J. Olmo, M. Mallet and L. Alados-Arboledas. A new methodology for PBL height estimations based on lidar depolarization measurements: analysis and comparison against MWR and WRF model-based results. *Atmospheric Chemistry and Physics*, Volume: 17, Issue: 11, Pages: 6839-6851, Doi: 10.5194/acp-17-6839-2017. Published: JUN 12 2017.

**GMGEC-2017-ACL-15** : Cariolle, D., P. Moinat, H. Teysseire, L. Giraud, B. Josse, and F. Lefèvre, 2017 : ASIS v1.0 : an adaptive solver for the simulation of atmospheric chemistry. *Geoscientific Model Development*, Volume : 10, Issue : 4, Pages : 1467-1485, Doi : 10.5194/gmd-10-1467-2017, Published : APR 11 2017.

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**GMGEC-2017-ACL-17** : Cesana, G., K. Suselj and F. Briant, 2017 : On the Dependence of Cloud Feedbacks on Physical Parameterizations in WRF Aquaplanet Simulations. *Geophysical Research Letters*, Volume : 44, Issue : 20, Pages : 10762-10771, Doi : 10.1002/2017GL074820 Published: OCT 28 2017.

**GMGEC-2017-ACL-18** : Chadwick, R., H. Douville and C.B. Skinner, 2017 : Timeslice experiments for understanding regional climate projections: Applications to the tropical hydrological cycle and European winter circulation. *Climate Dynamics*, Volume : 49, Issue : 9-10, Pages : 3011-3029, Doi : 10.1007/s00382-016-3488-6. Published: NOV 2017.

**GMGEC-2017-ACL-19** : Chauvin F, H. Douville and A. Ribes, 2017 : Atlantic tropical cyclones water budget in observations and CNRM-CM5 model. *Climate Dynamics*, Volume: 49, Issue: 11-12, Pages: 4009-4021, Doi : 10.1007/s00382-017-3559-3. Published: DEC 2017.

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**GMGEC-2017-ACL-21** : Claeys, M., G. Roberts, M. Mallet, J. Arndt, K. Sellegri, J. Sciare, Wenger, J. and B. Sauvage : Optical, physical and chemical properties of aerosols transported to a coastal site in the western Mediterranean: a focus on primary marine aerosols, , *Atmos. Chem. Phys.*, 2017. *Atmospheric Chemistry and Physics*, Volume: 17 Issue: 12 Pages: 7891-7915, Doi : 10.5194/acp-17-7891-2017. Published: JUN 30 2017.





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# 2017

## GMAP

**GMAP-2017-ACLN-1** : Chambon P., Geer A. : All-sky assimilation of Megha-Tropiques/SAPHIR radiances in the ECMWF numerical weather prediction system. ECMWF Technical Memorandum n°802

**GMAP-2017-ACLN-2** : Dombrowski-Etchevers, V. Vionnet, L. Quéno : La prévision météorologique à l'échelle kilométrique au service de la nivologie, La Météorologie, soumis

**GMAP-2017-ACLN-3** : Labadie C., P. Cébron, P. Raynaud, L. Descamps, P. Arbogast : Le vendeur de glaces et le chaos : Expliquer la prévision probabiliste à travers un jeu. La Météorologie, 96, 21.

**GMAP-2017-ACLN-4** : Mahfouf J-F., J-M. Moisselin, F. Autonès, J. Vidot : Apport de l'observation satellitaire pour la prévision du temps, La Météorologie, 97, 27.

**GMAP-2017-ACLN-5** : Mahfouf J-F. "Les modèles de prévision numérique à aire limitée opérationnels de Météo-France" par C. Fischer, en préparation pour le numéro 100 de La Météorologie

**GMAP-2017-ACLN-6** : Penny, S. G., A. ella, S., Alves, O., Bishop, C., Buehner, M., Chevallier, M., Counillon, F., Draper, C., Frolov, S., Fujii, Y., Karspec, A., Kumar, A., Laloyaux, P., Mahfouf, J.-F., Martn, M., Pena, M., de Rosnay, P., Subramanian, A., Tardif, R., Wang, Y., & Wu, X. (2017) : Coupled data assimilation for integrated Earth system analysis and prediction : Goals, challenges and recommendations. WMO WWRP Report 2017-3, 50 pp.

## GMEI

**GMEI-2017-ACLN-1** : Roberts, G., F. Burnet, S. Barrau, P. Medina, P. Durand, M. Gavart, Un drone au-dessus des océans : le projet Miriad, in press, La Météorologie, 2017. (invited)

## GMGEC

**GMGEC-2017-ACLN-1** : Menut, L., J.-L. Attié, M. Beekmann, B. Bessagnet, C. Clerbaux, J. Cuesta, G. Dufour, G. Foret, L. El Amraoui, M. Mallet, F. Meleux, P. Ricaud, D. Tarré, S. Turquety, Apport de l'observation satellite à l'analyse et à la prévision de la qualité de l'air, La Météorologie, 97, 34-45, doi:10.4267/2042/62165, 2017.

## GMME

**GMME-2017-ACLN-1** : Calvet, J.-C., Ceschia, E., Courault, D., Dewaele, H., Goulas, Y., Inglada, J., Le Toan, T., and Maignan, F.: Observation de la végétation depuis l'espace, La Météorologie, 97, 86-93, 2017.



## CEN

**CEN-2017-ACLN-1** : Calonne, N., F. Flin and C. Geindreau, 2017 : Modélisation des métamorphoses de la neige sèche : de la microstructure à la couche de neige (Prix Prud'homme 2016). La Météorologie, Numéro: 98, Pages: 36-44, Doi: 10.4267/2042/62458, Published: AOU 2017.

**CEN-2017-ACLN-2** : Rabatel, A., E. Berthier, Y. Arnaud, J.-P. Dedieu, M. Dumont, S. Gascoin, M. Gay, K. Guerreiro, F. Karbou, A. Douraev, G. Picard, F. Rémy, P. Sirguey, E. Trouvé and E. Zakharova, 2017 : Télédétection satellitaire des surfaces enneigées et englacées. La Météorologie, n° 97, Pages: 78-85, Doi: 10.4267/2042/62170, Published : MAI 2017.

**CEN-2017-ACLN-3** : Vionnet, V., F. Naaim-Bouvet, Y. Deliot, H. Bellot, F. Karbou, M. Naaim, G. Guyomarc'h et Y. Durand, 2017 : Col du Lac Blanc: un site pour l'observation et la modélisation de la neige en haute montagne. La Météorologie, Numéro: 99, Série: 8, Pages: 35-44, Doi: 10.4267/2042/63588, Published: NOV 2017.

**CEN-2017-ACLN-4** : Wautier, A., C. Geindreau and F. Flin, 2017 : From X-ray tomography images to a numerical homogenized formulation of snow viscoplasticity, Poromechanics VI : Proceedings of the Sixth Biot Conference on Poromechanics. American Society of Civil Engineers, Reston, US, Pages: 1091-1098, Doi: 10.1061/9780784480779.136, Published: JUL. 2017.

## MULTI-GROUPES

**GMAP-CEN-2017-ACLN-1** : Dombrowski-Etchevers, I., V. Vionnet, 2017 : Pertinence des prévisions météorologiques à l'échelle kilométrique pour la modélisation du manteau neigeux en montagne. La Météorologie, Numéro: 99, Série: 8, Pages: 25-34, <https://hdl.handle.net/2042/63587>, Published: NOV 2017.



# ASCL

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



# 2017

## GMAP

**GMAP-2017-ASCL-1** : Berre, L., Arbogast, E., Ménétrier, B., G. Desroziers : Change of variable applied to mass and wind fields for covariance localisation. WMO CAS/JSC WGNE Blue Book, Edited by J. Côté., 2017

**GMAP-2017-ASCL-2** : El Ouaraini, R., Berre, L. and C. Fischer, Diagnosis of some error contributions in global and regional data assimilation cycling. WMO CAS/JSC WGNE Blue Book, Edited by J. Côté., 2017.

**GMAP-2017-ASCL-3** : Mahfouf, J.-F., H. Roquet, P. Tabary et P. Bougeault (2017) : Les enjeux de la radio-occultation des signaux GNSS pour la prévision du temps. Météo et Climat Info N°60

**GMAP-2017-ASCL-4** : Marquet P., W. Maurel, R. Honnert: On consequences of measurements of turbulent Lewis number from observations. WMO CAS/JSC WGNE Blue Book, Edited by J. Côté., 2017

**GMAP-2017-ASCL-5** : Marquet P.: The impacts of observed small turbulent Lewis number in stable stratification : changes in the thermal production?. WMO CAS/JSC WGNE Blue Book, Edited by J. Côté., 2017

## GMME

**GMME-2017-ASCL-1** : Ek, M., G. Abramowitz and A. Boone, 2017: GLASS science panel meeting, 3-5 October, Gif-sur-Yvette. GEWEX News, 27(1), 9-11.

**GMME-2017-ASCL-2** : Barlow, J., M. Best, S.I. Bohnenstengel, P. Clark, S. Grimmond, H. Lean, A. Christen, S. Emeis, M. Haefelin, I.N. Harman, A. Lemonsu, A. Martilli, E. Pardyjak, M.W. Rotach, S. Ballard, I. Boutle, A. Brown, X. Cai, M. Carpentieri, O. Coceal, B. Crawford, S. Di Sabatino, J. Dou, D.R. Drew, J.M. Edwards, J. Fallmann, K. Fortuniak, J. Gornall, T. Gronemeier, C.H. Halios, D. Hertwig, K. Hirano, A.A. Holtslag, Z. Luo, G. Mills, M. Nakayoshi, K. Pain, K.H. Schlünzen, S. Smith, L. Soulhac, G. Steeneveld, T. Sun, N.E. Theeuwes, D. Thomson, J.A. Voogt, H.C. Ward, Z. Xie, and J. Zhong, 2017: Developing a Research Strategy to Better Understand, Observe, and Simulate Urban Atmospheric Processes at Kilometer to Subkilometer Scales. Bull. Amer. Meteor. Soc., 98, ES261–ES264, <https://doi.org/10.1175/BAMS-D-17-0106.1>

**GMME-2017-ASCL-3** : Faisal H., M. Srinivasan, C. Peterson, M. Gosset, P. Le Moigne, L. Li and al., 2017 : Engaging the User Community for Advancing Societal Applications of the Surface Water Ocean Topography (SWOT) mission. Volume: 98, Pages: ES285-ES290. BAMS -D-17-0161.

**GMME-2017-ASCL-4** : Kim, H., J. Schewe, G. Abramowitz, M. Ek, A. Boone, S. I. Seneviratne, F. M. Hoffman, J. S. Famiglietti, T. Nakaegawa, Y. Onuma, T. Nitta, D. Yamazaki, T. Yoshikane, M. Kiguchi, K. Yoshimura, Y. Hirabayashi and T. Oki, 2017: 4th HESSS International Conference on Climate Extremes and Global Energy, Water and Carbon Cycles: Tokyo, Japan. GEWEX News, 27(3), 9.

## CEN

**CEN-2017-ASCL-1** : Hagenmuller P., 2017 : Le déclenchement des avalanches de plaque. Neige et Avalanches, n° 157, Pages: 10-14, Published: AVR 2017.

**CEN-2017-ASCL-2** : Hagenmuller P., 2017 : Influence des croûtes de regel sur la formation de couches fragiles persistantes. Neige et Avalanches, n° 159, Pages: 13-15, Published: OCT 2017.



**CEN-2017-ASCL-3** : Karbou, F. and M. Dumont, 2017 : La neige en montagne un défi pour la télédétection spatiale". Neige et Avalanches, n° 156, Pages: 23-25, Published: FEV 2017.

**CEN-2017-ASCL-4** : Mede T., G. Chambon, P. Hagenmuller and F. Nicot, 2017 : Mechanical behaviour of weak snow layers: modelling a porous structure of sintered grains. EPJ Web Conf., Powders and Grains 2017, 8th International Conference on Micromechanics on Granular Media, Volume: 140, Article number: 06008, Doi: 10.1051/epjconf/201714006008, Published: JAN 2017.

**CEN-2017-ASCL-5** : Morin, S., 2017 : Moins de neige ne veut pas dire moins d'avalanches. The Conversation, Published: FEV 2017.

## MULTI-GROUPES

**GMAP-GMGEC-2017-ASCL-1** : Marquet, P., S. Belamari: On new bulk formulas based on moist-air entropy. WMO CAS/JSC WGNE Blue Book, Edited by J. Côté., 2017



# C-INV

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





# 2017

## GMAP

**GMAP-2017-C-INV-1** : Bazile, E.: Key Note : The NWP system at Météo-France and the low cloud forecast: still a challenge ? EGU Vienne 24-28 Avril.

**GMAP-2017-C-INV-2** : Bazile, E. (MF): Key note "How to estimate uncertainties in the physics or model errors?" (invited) SRNWP workshop on physical parametrization and ensemble prediction, alias Stochastic Workshop, 24-26 October 2017, Madrid, Spain

**GMAP-2017-C-INV-3** : Fourrié, N., : Assimilation of simulated IRS data in a convective scale model. ECMWF workshop on assimilation of hyper-spectral geostationary satellite observations. ECMWF, Reading (UK), 24 Mai 2017

**GMAP-2017-C-INV-4** : Mahfouf, J.F., : Les missions spatiales : comment s'y prépare-t-on en prévision numérique du temps ? 2ème colloque de restitution du TOSCA, Maison des Océans, Paris, 22 Mars 2017.

**GMAP-2017-C-INV-5** : Mahfouf, J.-F., (2017) : Les catastrophes hydro-météorologiques : leur suivi et leur prévision depuis l'espace. Conférence-débat de l'Académie de Sciences sur le thème "Les catastrophes naturelles : observations spatiales et prévisions", 13 juin 2017, Paris (Institut de France).[http://public.weconext.eu/academie-sciences/2017-06-13/video\\_id\\_003/index.htm](http://public.weconext.eu/academie-sciences/2017-06-13/video_id_003/index.htm)

**GMAP-2017-C-INV-6** : Ménétrier, B., Developments in Ensemble Variational Data Assimilation at Météo-France, April 25, 2017, ECMWF, Reading (UK).

## GMME

**GMME-2017-C-INV-1** : Boone, A., 2017 : Lessons learned from over two decades of international land surface model inter-comparison projects. 4th Conference on Modelling Hydrology, Climate and Land surface Processes, Lillhammer, Norway, 12-14 Sept. 2017.

**GMME-2017-C-INV-2** : Bouttier, F. 2017: model error schemes in the Météo-France ensembles. invited talk. ECMWF Annual Seminar 'Ensemble prediction: past, present and future'. 11-14 Sept 2017, Reading, GB. [www.ecmwf.int](http://www.ecmwf.int)

**GMME-2017-C-INV-3** : Lafore J-P., Peyrillé P., Roehrig R., F. Beucher. An overview of the weather conditions and climate trends of extreme rainfall in the Sahel. Invited paper. Extended abstract: 5 pages. Sixth International Workshop on Monsoons (IWM-6) Singapore, 13-17 November 2017 .



# C-ACTI

**Communications avec actes dans un congrès international**



# 2017

## GMEI

**GMEI-2017-C-ACTI-1** : O'Connor, E., Anne Hirsikko, Christos Halios, Sven-Erik Gryning, Ronny Leinweber, Antti Manninen, Tobias Marke, Nina Petersen, Jana Preissler, Eileen Päsche, Umar Saeed, Jan Schween, Yang Shu, Irene Suomi, Minttu Tuononen, Ville Vakkari, Ludovic Thobois, Guy Pearson, Alain Dabas, and Johannes Buehl : Doppler lidar horizontal wind retrievals from a meteorological perspective. EMS 2017. Dublin, Ireland, 4-8 septembre 2017.

**GMEI-2017-C-ACTI-2** : Miró, J. R., J. Cuxart, A. Paci, J. Bech, M. R. Soler, M. Udina, L. Conangla, J. Barrié, G. Cayez, A. Dabas, S. Defoy, T. Douffet, J. M. Donier, O. Garrouste, P. Martinet, W ? Maurel, E. Moulin, G. Roberts, T. sabatier, S. González, D. Martínez-Villagrassa, G. Simó, M. A. Jiménez, R. Picos, A. López, A. sairouni, N. Pepin, E. F. Soler, L. Prapero, G. Molinié, B. Wrenger ; The Cerdanya-2017 observation field campaign: Cold Pool (CCP'17) and Gravity Waves and Orographic Precipitation (GWOP'17). 6<sup>th</sup> International Conference on Meteorology and Climatology of the Mediterranean (MetMed), Zagreb, Croatie, 20-22 Février 2017.

**GMEI-2017-C-ACTI-3** : Rieutord, T. and Rottner L., 2017 : « Sensitivity analysis of a new algorithm for fast estimation of turbulence ». 11th Advanced Mathematical and Computational Tools in Metrology and Testing, August 29-31, Glasgow.

**GMEI-2017-C-ACTI-4** : Tucker, B. and Carroll, B. and Rieutord, T. and Brewer, A. and Choukulkar, A. and Bonin, T. and Demoz, B. and Delgado, R., 2017 : « Determination of Planetary Boundary Layer Heights from Doppler Wind Lidar Measurements ». 10th International Symposium on Tropospheric Profiling, May 30 -June 2, Fort Collins.

## MULTI-GROUPES

**GMME-GMAP-2017-C-ACTI-1** : Di Girolamo, P., Flamant, C; Cacciani, M; Summa, D; Stelitano, D; Richard, E; Ducrocq, V; Fourrie, N; Said, F, 2017: Lidar observations of low-level wind reversals over the Gulf of Lion and characterization of their impact on the water vapour variability. Radiation in the Atmosphere and Ocean, Book Series : AIP Conference Proceedings, Volume : 1810, Article Number : UNSP 100001, Doi : 10.1063/1.4975556. Published : 2017.



# 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.**



# 2017

## GMAP

**GMAP-2017-AP-1** : L. Berre, P. Brousseau, G. Desroziers, C. Fischer et J.-F. Mahfouf (2017) : L'assimilation de données Météo-France. Rapport pour le comité scientifique consultatif de Météo-France – session 2017, 25 pp.

**GMAP-2017-AP-3** : Mahfouf J.-F. (2017) : On the use of atmospheric Ensemble Data Assimilation for improving soil moisture analysis. Note interne, 58 pp.

## GMEI

**GMEI-2017-AP-4** : Gryning, S. E., T. Mikkelsen, C. Baehr, A. Dabas, P. Gómez, E. O'Connor, L. Rottner, M. Sjöholm, I. Suomi, N. Vasiljevic : Measurement methodologies for wind energy based on ground-level remote sensing. In Renewable Energy Forecasting, edited by G. Kariniotakis, Elsevier, 2017.

## GMME

**GMME-2017-AP-4** : Cornforth R., Z. Mumba, D. J. Parker, G. Berry, N. Chapelon, K. Diakaria, M. Diop-Kane, V. Ermert, A. H. Fink, P. Knippertz, J-P. Lafore, A. Laing, S. Lepape, R. Maidment, J. Methven, B. N. Orji, D. Osika, E. Poan, R. Roca, S. Rowell, R. Smith, T. Spengler, C. Taylor, C. Thorncroft, J-C. Vincendon and C. York (2017) Synoptic Systems, in Meteorology of Tropical West Africa: The Forecasters' Handbook (eds D. J. Parker and M. Diop-Kane), John Wiley & Sons, Ltd, Chichester, UK. doi: 10.1002/9781118391297.ch2

**GMME-2017-AP-8** : Guichard, F., Kergoat, L., Hourdin, F., Léauthaud, C., Barbier, J., Mougin, E., and Diarra, B. 2017: Climate warming observed in the Sahel since 1950. In "Rural societies in the face of climatic and environmental changes in West Africa". (Sultan B, Lalou R, Amadou Sanni M, Oumarou A et Soumaré M A eds.), IRD Editions, pp 23-42.

**GMME-2017-AP-9** : Lafore J-P., M. Biasutti, P. Knippertz and C. Taylor, 2017 : The West African Monsoon. Chapter 4 (p35-5) of the book [The Global Monsoon System.: Research and Forecast. Editors Chih-Pei Chang, Hung-Chi Kuo, Ngar-Cheung Lau, Richard H. Johnson, Bin Wang, and Matthew C Wheeler. World Scientific Publishing Co., 385 pp. Singapore, ISBN: 978-981-3200-90-6.]

**GMME-2017-AP-10** : Lafore J-P., N. Chapelon, M. Diop-Kane, B. Gueye, Y. Largeron, S. Lepape, O. Ndiaye, D.J. Parker, E. Poan, R. Roca, R. Roehrig and C. Taylor (2017) Deep Convection, in Meteorology of Tropical West Africa: The Forecasters' Handbook (eds D. J. Parker and M. Diop-Kane), John Wiley & Sons, Ltd, Chichester, UK. doi: 10.1002/9781118391297.ch3

**GMME-2017-AP-11** : Lafore J-P., N. Chapelon, F. Beucher, M. Diop-Kane, A. Gaynard, A. Kasimou, S. Lepape, Z. Mumbae, B. N. Orji, D. Osika, D. J. Parker, E. Poan, L. G. Razafindrakoto and J-C. Vincendon (2017) West African Synthetic Analysis and Forecast: WASA/F, in Meteorology of Tropical West Africa: The Forecasters' Handbook (eds D. J. Parker and M. Diop-Kane), John Wiley & Sons, Ltd, Chichester, UK. doi: 10.1002/9781118391297.ch11

**GMME-2017-AP-13** : Parker, D. J., A. Kassimou; B. N. Orji, D. P. Osika, I. Hamza I, M. Diop-Kane, A. Fink, J. Galvin, F. Guichard F, B. L. Lamptey, H. Hamidou, R. van der Linden, R. Redl, T. Lebel, 2017: Local Weather , In: Parker DJ; Diop-Kane M (Ed) Meteorology of Tropical West Africa: The Forecasters' Handbook, John Wiley & Sons, Ltd, pp.130-174. doi: 10.1002/9781118391297.ch4



# THESES



# 2017

## GMAP

**GMAP-2017-AP-2** : Boukachaba, N., 2017 : "Apport des observations satellitaires hyperspectrales infra rouges IASI au-dessus des continents dans le modèle météorologique à l'échelle convective AROME' le 25 septembre 2017.

**GMAP-2017-AP-4** : Taillardat, M., 2017 : « Méthodes Non-Paramétriques de Post-Traitement des Prévisions d'Ensemble » le lundi 11 décembre 2017 à 14h en salle Joël Noilhan.

**GMAP-2017-AP-5** : Varino, F., 2017 : "Typologie des tempêtes du XXème siècle" le 22 septembre 2017.

## GMEI

**GMEI-2017-AP-1** : Brioulet, P.-E., 2017 : "Thermodynamique et turbulence dans les épisodes de vents forts sur le Golfe du Lion". Thèse soutenue le mardi 28 novembre 2017 à 14h en salle Coriolis de l'OMP.

**GMEI-2017-AP-2** : Rieutord, T., 2017 : "Sensitivity analysis of a filtering algorithm for wind measurements". Thèse soutenue le lundi 13 novembre 2017 à 14h en salle Joël Noilhan du CNRM.

**GMEI-2017-AP-3** : Tav, J., 2017 : "Etude du dépôt de radionucléides par les gouttelettes de brouillards et de nuages sur les végétaux à partir d'expérimentation in situ". Thèse soutenue le 12 octobre 2017.

## GMGEC

**GMGEC-2017-AP-2** : Kangah, Y., 2017 : "Mesure du protoxyde d'azote (N<sub>2</sub>O) depuis l'espace" le 1er décembre 2017.

## GMME

**GMME-2017-AP-1** : Barbier, J., 2017 : "Extrêmes climatiques : les vagues de chaleur au printemps sahélien". Thèse soutenue le vendredi 15 décembre 2017 à 14h en salle Joël Noilhan.

**GMME-2017-AP-3** : Bourgeois, E., 2017 : Les nuages de mi-niveau en Afrique de l'Ouest : observation, caractérisation, modélisation. Thèse soutenue le jeudi 7 décembre 2017 à 10h30 en salle Joël Noilhan.

**GMME-2017-AP-6** : Daniel, M., 2017 : "Ville, climat urbain et climat régional sur la France : étude par une approche de modélisation climatique couplée". Thèse soutenue le 17 novembre 2017.

**GMME-2017-AP-7** : Dewaele, H., 2017 : "Intégration de données satellitaires dans SURFEX pour le suivi de la végétation à l'échelle mondiale". Thèse soutenue le 4 décembre 2017.

**GMME-2017-AP-12** : Martinet, M., 2017 : Initiation et organisation d'un système fortement précipitant méditerranéen dans le cadre de la période d'observation spéciale HyMeX : simulations aux échelles hectométriques. Thèse Soutenu le 11 décembre 2017 à 10h30 en salle Joël Noilhan.

**GMME-2017-AP-14** : Redon, E., 2017 : "Modélisation de la végétation urbaine comme régulateur thermique". Thèse soutenue le 20 juin 2017 en salle Joël Noilhan.





## CEN

**CEN-2017-AP-2** : Queno, L., 2017 : "Apport de prévisions météorologiques à échelle kilométrique pour la modélisation du manteau neigeux en montagne" le 24 novembre 2017.

## MULTI-GROUPES

**GMME-GMEI-2017-AP-1** : Rodier, Q., 2017 : Paramétrisation de la turbulence atmosphérique dans la couche limite stable. Thèse soutenue le jeudi 14 décembre 2017 à 14h30 en salle Joël Noilhan.



# HDR

## Habilitations à Diriger des Recherches



# 2017

## GMGEC

**GMGEC-2017-AP-1** : El Amraoui, L., 2017 : "Apport de l'assimilation de données dans la chimie atmosphérique : De l'environnement stratosphérique vers la prévision de la qualité de l'air" le 10 janvier 2017.

**GMGEC-2017-AP-3** : Mallet, M., 2017 : "Interaction : "Aérosol, rayonnement et climat" à l'échelle régionale" le 14 décembre 2017.

**GMGEC-2017-AP-4** : Plu, M., 2017 : "Prévisibilité des tempêtes, des cyclones tropicaux et de la composition chimique de l'atmosphère" le 9 novembre 2017.

## GMME

**GMME-2017-AP-2** : Bouniol, D., 2017: Contributions à l'étude des processus physiques dans les nuages. HDR soutenue le mardi 14 novembre 2017.

**GMME-2017-AP-5** : Couvreur, F., 2017: Contribution à l'analyse des processus de couche limite et à leur représentation dans les modèles à partir de simulations explicites. HDR soutenue le 9 juin 2017.

## CEN

**CEN-2017-AP-1** : Dumont, M., 2017 : "De la couleur de la neige : mesure, modèle et applications". HDR soutenue le lundi 20 novembre 2017 à 15h30 à l'IGE (Grenoble).