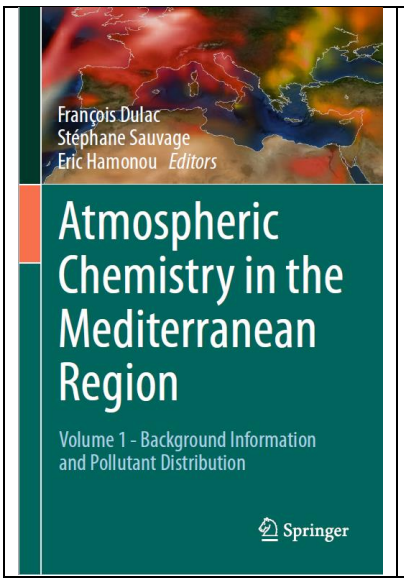
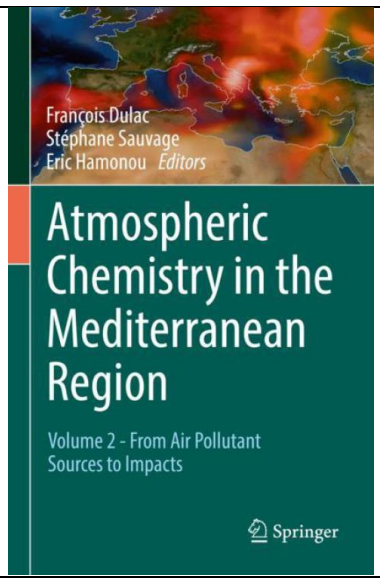
The Chemistry-Aerosol Mediterranean Experiment (ChArMEx)

List of peer-reviewed publications and PhD dissertations

(updated 08 March 2024; please report any error or omission to francois.dulac@cea.fr)

1. Edited book (reviewed)

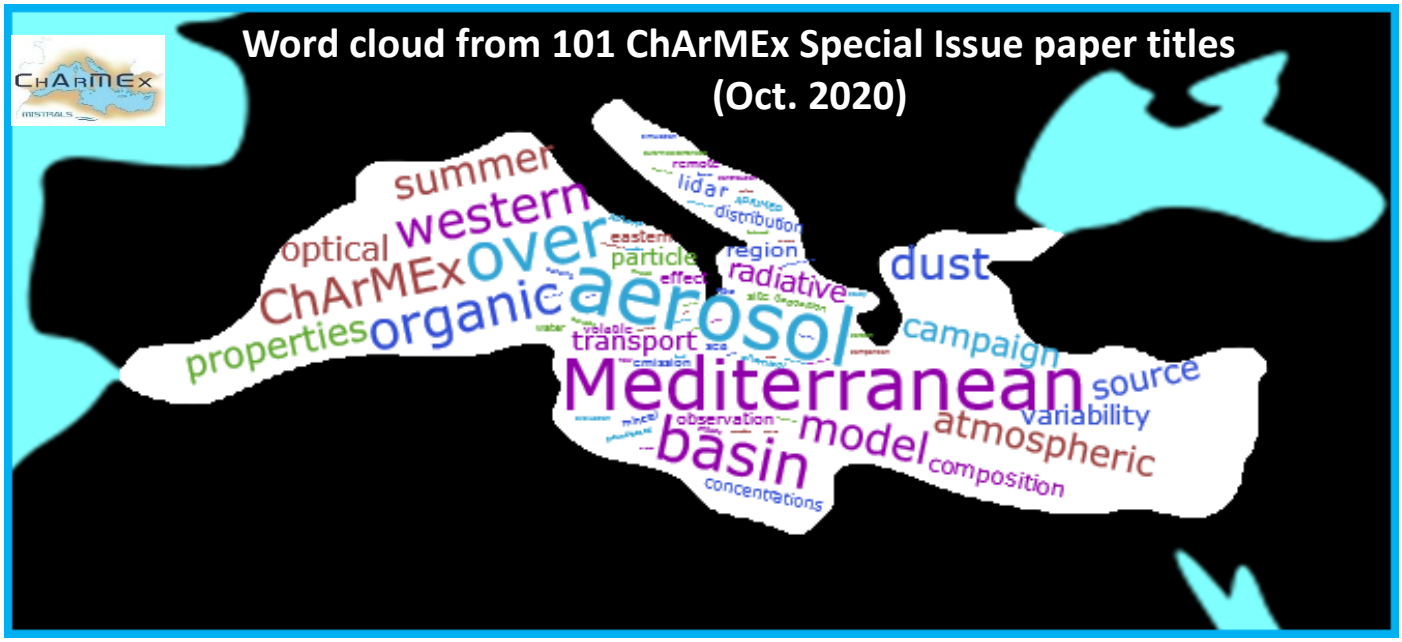




Dulac, F., Sauvage, S., Hamonou, E. (Eds.): **Atmospheric Chemistry in the Mediterranean Region, Vol. 1 – Background Information and Pollutant Distribution**. Springer, 583+li pp., https://doi.org/10.1007/978-3-031-12741-0, 2023.

Dulac, F., Sauvage, S., Hamonou, E. (Eds.): **Atmospheric Chemistry in the Mediterranean Region, Vol. 2 – From Air Pollutant Sources to Impacts**. Springer, 601+xlii pp., https://doi.org/10.1007/978-3-030-82385-6 , 2022.

2. ChArMEx Special Issue



1	12/11/2012	Nabat P., F. Solmon, M. Mallet, J. F. Kok, and S. Somot: **Dust emission size distribution impact on aerosol budget and radiative forcing over the Mediterranean region: a regional climate model approach**, Atmos. Chem. Phys., 12, 10545–10567, doi:10.5194/acp-12-10545-2012, 2012.
2	21/12/2012	Baghi R., P. Durand, C. Jambert, C. Jarnot, C. Delon, D. Serça, N. Striebig, M. Ferlicoq, and P. Keravec: **A new disjunct eddy-covariance system for BVOC flux measurements – validation on CO_2 and H_2O fluxes**, Atmos. Meas. Tech., 5, 3119–3132, doi:10.5194/amt-5-3119-2012, 2012.
3	06/03/2013	Guillon A., Flaud P.-M., Marchand N., Budzinski H., and E. Villenave: **Chemical characterization and stable carbon isotopic composition of particulate Polycyclic Aromatic Hydrocarbons issued from combustion of 15 Mediterranean woods**, Atmos Chem. Phys., 2703-2719, doi:10.5194/acp-13-2703-2013, 2013.

4	17/05/2013	Nabat P., S. Somot, M. Mallet, I. Chiapello, J.J. Morcrette, F. Solmon, S. Szopa, F. Dulac, W. Collins, S. Ghan, L.W. Horowitz, J.F. Lamarque, Y.H. Lee, V. Naik, T. Nagashima, D. Shindell, and R. Skeie: **A 4-D climatology (1979–2009) of the monthly tropospheric aerosol optical depth distribution over the Mediterranean region from a comparative evaluation and blending of remote sensing and model products**, Atmos. Meas. Tech., 6, 1287-1314, doi:10.5194/amt-6-1287-2013, 2013.
5	16/09/2013	Mallet M., O. Dubovik, P. Nabat, F. Dulac, R. Kahn, J. Sciare, D. Paronis, and J.F Léon: **Absorption properties of Mediterranean aerosols obtained from multi-year ground-based remote sensing observations**, Atmos. Chem. Phys., 13, 9195-9210, doi:10.5194/acp-13-9195-2013, 2013.
6	07/04/2014	Lurton T., J.-B. Renard, D. Vignelles, M. Jeannot, R. Akiki, J.-L. Mineau, and T. Tonnelier: **Light scattering at small angles by atmospheric irregular particles: modelling and laboratory measurements,** Atmos. Meas. Tech., 7, 931-939, doi:10.5194/amt-7-931-2014, 2014.
7	10/06/2014	Chazette P., F. Marnas, and J. Totems: **The mobile Water vapor Aerosol Raman LIdar and its implication in the frame of the HyMeX and ChArMEx programs: application to a dust transport process**, Atmos. Meas. Tech., 7, 1629-1647, 2014.
8	03/07/2014	Salvador P., S. Alonso-Pérez, J. Pey, B. Artíñano, J. J. de Bustos, A. Alastuey, and X. Querol: **African dust outbreaks over the western Mediterranean Basin: 11-year characterization of atmospheric circulation patterns and dust source areas**, Atmos. Chem. Phys., 14, 6759-6775, doi:10.5194/acp-14-6759-2014, 2014.
9	16/07/2014	Mishra A.K., K. Klingmueller, E. Fredj, J. Lelieveld, Y. Rudich, and I. Koren: **Radiative signature of absorbing aerosol over the eastern Mediterranean basin**, Atmos. Chem. Phys., 14, 7213-7231, doi:10.5194/acp-14-7213-2014, 2014.
10	08/09/2014	Sicard M., S. Bertolín, M. Mallet, P. Dubuisson, and A. Comerón: **Estimation of mineral dust longwave radiative forcing: sensitivity study to particle properties and application to real cases over Barcelona**, Atmos. Chem. Phys., 14, 9213-9231, doi:10.5194/acp-14-9213-2014, 2014.
11	16/09/2014	Chazette P., F. Marnas, and J. Totems: **Comparison of IASI water vapor retrieval with H_2O-Raman lidar in the frame of the Mediterranean HyMeX and ChArMEx programs**, Atmos. Chem. Phys., 14, 9583-9596, 2014.
12	22/09/2014	Kalogridis C., V. Gros, R. Sarda-Esteve, B. Langford, B. Loubet, B. Bonsang, N. Bonnaire, E. Nemitz, A.-C. Genard, C. Boissard, C. Fernandez, E. Ormeño, D. Baisnée, I. Reiter, and J. Lathière: **Concentrations and fluxes of isoprene and oxygenated VOCs at a French Mediterranean oak forest**, Atmos. Chem. Phys., 14, 10085-10102, doi:10.5194/acp-14-10085-2014, 2014.
13	09/10/2014	Doche C., G. Dufour, G. Foret, M. Eremenko, J. Cuesta, M. Beekmann, and P. Kalabokas: **Summertime tropospheric-ozone variability over the Mediterranean basin observed with IASI**, Atmos. Chem. Phys., 14, 10589-10600, doi:10.5194/acp-14-10589-2014, 2014.
14	29/10/2014	Ricaud, P., Sič, B., El Amraoui, L., Attié, J.-L., Zbinden, R., Huszar, P., Szopa, S., Parmentier, J., Jaidan, N., Michou, M., Abida, R., Carminati, F., Hauglustaine, D., August, T., Warner, J., Imasu, R., Saitoh, N., and Peuch, V.-H.: **Impact of the Asian monsoon anticyclone on the variability of mid-to-upper tropospheric methane above the Mediterranean Basin**, Atmos. Chem. Phys., 14, 11427–11446, doi:10.5194/acp-14-11427-2014, 2014.
15	17/11/2014	Wang Y., K. N. Sartelet, M. Bocquet, P. Chazette, M. Sicard, G. D'Amico, J. F. Léon, L. Alados-Arboledas, A. Amodeo, P. Augustin, J. Bach, L. Belegante, I. Binietoglou, X. Bush, A. Comerón, H. Delbarre, D. Garc\'ia-V\'izcaino, J. L. Guerrero-Rascado, M. Hervo, M. Iarlori, P. Kokkalis, D. Lange, F. Molero, N. Montoux, A. Muñoz, C. Muñoz, D. Nicolae, A. Papayannis, G. Pappalardo, J. Preissler, F. Rocadenbosch, K. Sellegri, F. Wagner, and F. Dulac: **Assimilation of lidar signals: application to aerosol forecasting in the Mediterranean Basin**, Atmos. Chem. Phys., 14, doi:10.5194/acp-14-12031-2014, 1231-1253, 2014.
16	14/01/2015	Genard-Zielinski A.-C., C. Boissard, C. Fernandez, C. Kalogridis, J. Lathière, V. Gros, N. Bonnaire, and E. Ormeño: **Variability of BVOC emissions from a Mediterranean mixed forest in southern France with a focus on *Quercus pubescens***, Atmos. Chem. Phys., 15, 431-446, doi:10.5194/acp-15-431-2015, 2015.
17	10/02/2015	Granados-Muñoz M.J., F. Navas-Guzmán, J.A. Bravo-Aranda, J.L. Guerrero-Rascado, H. Lyamani, A. Valenzuela, G. Titos, J. Fernández-Gálvez, and L. Alados-Arboledas: **Hygroscopic growth of atmospheric aerosol particles based on active remote sensing and radiosounding measurements: selected cases in southeastern Spain,** Atmos. Meas. Tech., 8, 705-718, doi:10.5194/amt-8-705-2015, 2015.
18	05/03/2015	Lyamani H., A. Valenzuela, D. Perez-Ramirez, C. Toledano, M. J. Granados-Muñoz, F. J. Olmo, and L. Alados-Arboledas: **Aerosol properties over the western Mediterranean Basin: temporal and spatial variability**, Atmos. Chem. Phys., 15, 2473-2486, doi:10.5194/acp-15-2473-2015, 2015.
19	24/03/2015	Nabat P., S. Somot, M. Mallet, M. Michou, F. Sevault, F. Driouech, D. Meloni, A. di Sarra, C. Di Biagio, P. Formenti, M. Sicard, J.-F. Léon, and M.-N. Bouin: **Dust aerosol radiative effects during summer 2012 simulated with a coupled regional aerosol–atmosphere–ocean model over the Mediterranean**, Atmos. Chem. Phys., 15, 3303-3326, doi:10.5194/acp-15-3303-2015, 2015b.
20	05/06/2015	Menut L., S. Mailler, G. Siour, B. Bessagnet, S. Turquety, G. Rea, R. Briant, M. Mallet, J. Sciare, P. Formenti, and F. Meleux: **Ozone and aerosol tropospheric concentrations variability analyzed using the ADRIMED measurements and the WRF and CHIMERE models**, Atmos. Chem. Phys., 15, 6159-6182, doi:10.5194/acp-15-6159-2015, 2015.
21	16/07/2015	Laurent B., R. Losno, S. Chevaillier, J. Vincent, P. Roullet, E. Bon Nguyen, N. Ouboulmane, S. Triquet, M. Fornier, P. Raimbault, and G. Bergametti: **An automatic collector to monitor insoluble atmospheric deposition: application for mineral dust deposition**, Atmos. Meas. Tech., 8, 2801-2811, doi:10.5194/amt-8-2801-2015, 2015.
22	17/07/2015	Menut L., G. Rea, S. Mailler, D. Khvorostyanov, and S. Turquety: **Aerosol forecast over the Mediterranean area during July 2013 (ADRIMED/CHARMEX)**, Atmos. Chem. Phys., 15, 7897-7911, doi:10.5194/acp-15-7897-2015, 2015.

23	20/07/2015	Schwier A.N., C. Rose, E. Asmi, A.M. Ebling, W.M. Landing, S. Marro, M.-L. Pedrotti, A. Sallon, F. Iuculano, S. Agusti, A. Tsiola, P. Pitta, J. Louis, C. Guieu, F. Gazeau, and K. Sellegri: **Primary marine aerosol emissions from the Mediterranean Sea during pre-bloom and oligotrophic conditions: correlations to seawater chlorophyll *a* from a mesocosm study**, Atmos. Chem. Phys., 15, 7961-7976, doi:10.5194/acp-15-7961-2015, 2015.
24	27/07/2015	Rea G., S. Turquety, L. Menut, R. Briant, S. Mailler, and G. Siour: **Source contributions to 2012 summertime aerosols in the Euro-Mediterranean region,** Atmos. Chem. Phys., 15, 8013-8036, doi:10.5194/acp-15-8013-2015, 2015.
25	28/07/2015	Athanasopoulou A., A.P. Protonotariou, E. Bossioli, A. Dandou, M. Tombrou, J.D. Allan, H. Coe, N. Mihalopoulos, J. Kalogiros, A. Bacak, J. Sciare, and G. Biskos: **Aerosol chemistry above an extended archipelago of the eastern Mediterranean basin during strong northern winds**, Atmos. Chem. Phys., 15, 8401-8421, doi:10.5194/acp-15-8401-2015, 2015.
26	27/08/2015	Di Biagio C., L. Doppler, C. Gaimoz, N. Grand, G. Ancellet, J.-C. Raut, M. Beekmann, A. Borbon, K. Sartelet, J.-L. Attié, F. Ravetta, and P. Formenti: **Continental pollution in the western Mediterranean basin: vertical profiles of aerosol and trace gases measured over the sea during TRAQA 2012 and SAFMED 2013**, Atmos. Chem. Phys., 15, 9611-9630, doi:10.5194/acp-15-9611-2015, 2015.
27	21/09/2015	Zannoni N., S. Dusanter, V. Gros, R. Sarda Esteve, V. Michoud, V. Sinha, N. Locoge, and B. Bonsang: **Intercomparison of two comparative reactivity method instruments in the Mediterranean basin during summer 2013**, Atmos. Meas. Tech., 8, 3851-3865, doi:10.5194/amt-8-3851-2015, 2015.
28	17/12/2015	Calzolai G., S. Nava, F. Lucarelli, M. Chiari, M. Giannoni, S. Becagli, R. Traversi, M. Marconi, D. Frosini, M. Severi, R. Udisti, A. di Sarra, G. Pace, D. Meloni, C. Bommarito, F. Monteleone, F. Anello, and D. M. Sferlazzo: **Characterization of PM_{10} sources in the central Mediterranean**, Atmos. Chem. Phys., 15, 13939-13955, doi:10.5194/acp-15-13939-2015, 2015.
29	19/01/2016	Mallet M., F. Dulac, P. Formenti, P. Nabat, J. Sciare, G. Roberts, J. Pelon, G. Ancellet, D. Tanré, F. Parol, C. Denjean, G. Brogniez, A. di Sarra, L. Alados-Arboledas, J. Arndt, F. Auriol, L. Blarel, T. Bourrianne, P. Chazette, S. Chevaillier, M. Claeys, B. D'Anna, Y. Derimian, K. Desboeufs, T. Di Iorio, J.-F. Doussin, P. Durand, A. Féron, E. Freney, C. Gaimoz, P. Goloub, J.L. Gomez-Amo, M.J. Granados Muñoz, N. Grand, E. Hamonou, I. Jankowiak, M. Jeannot, J.-F. Léon, M. Maillé, S. Mailler, D. Meloni, L. Menut, G. Momboisse, J. Nicolas, T. Podvin, V. Pont, G. Rea, J.-B. Renard, L. Roblou, K. Schepanski, A. Schwarzenboeck, K. Sellegri, M. Sicard, F. Solmon, S. Somot, B. Torres, J. Totems, S. Triquet, N. Verdier, C. Verwaerde, F. Waquet, J. Wenger, and P. Zapf: **Overview of the Chemistry-Aerosol Mediterranean Experiment/Aerosol Direct Radiative Forcing on the Mediterranean Climate (ChArMEx/ADRIMED) summer 2013 campaign**, Atmos. Chem. Phys., 16, 455–504, doi:10.5194/acp-16-455-2016, 2016.
30	01/02/2016	Denjean C., F. Cassola, A. Mazzino, S. Triquet, S. Chevaillier, N. Grand, T. Bourrianne, G. Momboisse, K. Sellegri, A. Schwarzenbock, E. Freney, M. Mallet, and P. Formenti: **Size distribution and optical properties of mineral dust aerosols transported in the western Mediterranean**. Atmos. Chem. Phys., 16, 1081-1104, doi:10.5194/acp-16-1081-2016, 2016.
31	03/02/2016	Mailler S., L. Menut, A.G. di Sarra, S. Becagli, T. Di Iorio, B. Bessagnet, R. Briant, P. Formenti, J.-F. Doussin, J. L. Gómez-Amo, M. Mallet, G. Rea, G. Siour, D. M. Sferlazzo, R. Traversi, R. Udisti, and S. Turquety: **On the radiative impact of aerosols on photolysis rates: comparison of simulations and observations in the Lampedusa island during the ChArMEx/ADRIMED campaign**, Atmos. Chem. Phys., 16, 1219-1244, doi:10.5194/acp-16-1219-201, 2016.
32	11/02/2016	Zannoni N., V. Gros, M. Lanza, R. Sarda, B. Bonsang, C. Kalogridis, S. Preunkert, M. Legrand, C. Jambert, C. Boissard, and J. Lathière: **OH reactivity and concentrations of biogenic volatile organic compounds in a Mediterranean forest of downy oak trees**, Atmos. Chem. Phys., 16, 1619-1636, doi:10.5194/acp-16-1619-2016, 2016.
33	04/03/2016	Chazette P., J. Totems, G. Ancellet, J. Pelon, and M. Sicard: **Temporal consistency of lidar observables during aerosol transport events in the framework of the ChArMEx/ADRIMED campaign at Menorca Island in June 2013**, Atmos. Chem. Phys., 16, 2863-2875, doi:10.5194/acp-16-2863-2016, 2016.
34	15/03/2016	Totems J., and P. Chazette: **Calibration of a water vapour Raman lidar with a kite-based humidity sensor,** Atmos. Chem. Phys., 16, 2863-2875,doi:10.5194/acp-16-2863-2016, 2016.
35	17/03/2016	Salameh T., S. Sauvage, C. Afif, A. Borbon, and N. Locoge: **Source apportionment vs. emission inventories of non-methane hydrocarbons (NMHC) in an urban area of the Middle East: local and global perspectives**, Atmos. Chem. Phys., 16, 3595-3607, doi:10.5194/acp-16-3595-2016, 2016.
36	15/04/2016	Ancellet G., J. Pelon, J. Totems, P. Chazette, A. Bazureau, M. Sicard, T. Di Iorio, F. Dulac, and M. Mallet: **Long-range transport and mixing of aerosol sources during the 2013 North American biomass burning episode: analysis of multiple lidar observations in the western Mediterranean basin**, Atmos. Chem. Phys., 16, 4725-4742, doi:10.5194/acp-16-4725-2016, 2016.
37	20/04/2016	Renard J.-B., F. Dulac, G. Berthet, T. Lurton, D. Vignelles, F. Jégou, T. Tonnelier, C. Thaury, M. Jeannot, B. Couté, R. Akiki, N. Verdier, M. Mallet, F. Gensdarmes, P. Charpentier, V. Duverger, J.-C. Dupont, S. Mesmin, T. Elias, V. Crenn, J. Sciare, J. Giacomoni, M. Gobbi, E. Hamonou, H. Olafsson, P. Dagsson-Waldhauserova, C. Camy-Peyret, C. Mazel, T. Décamps, M. Piringer, J. Surcin, and D. Daugeron: **LOAC: a small aerosol optical counter/sizer for ground-based and balloon measurements of the size distribution and nature of atmospheric particles – Part 1: Principle of measurements and instrument evaluation**, Atmos. Meas. Tech., 9, 1721-1742, doi:10.5194/amt-9-1721-2016, 2016.
38	06/06/2016	Sellitto P., A. di Sarra, S. Corradini, M. Boichu, H. Herbin, P. Dubuisson, G. Sèze, D. Meloni, F. Monteleone, L. Merucci, J. Rusalem, G. Salerno, P. Briole, and B. Legras: **Synergistic use of Lagrangian dispersion modelling, satellite and surface remote sensing measurements for the investigation of volcanic plumes: the Mount Etna eruption of 25–27 October 2013**, Atmos. Chem. Phys., 16, 6841-6861, doi:10.5194/acp-16-6841-2016, 2016.

39	09/06/2016	Granados-Muñoz M.J. , F. Navas-Guzmán, J.L. Guerrero-Rascado, J.A. Bravo-Aranda, I. Binietoglou, S.N. Pereira, S. Basart, J.M. Baldasano, L. Belegante, A. Chaikovsky, A. Comerón, G. D'Amico, O. Dubovik, L. Ilic, P. Kokkalis, C. Muñoz-Porcar, S. Nickovic, D. Nicolae, F.J. Olmo, A. Papayannis, G. Pappalardo, A. Rodríguez, K. Schepanski, M. Sicard, A. Vukovic, U. Wandinger, F. Dulac, and L. Alados-Arboledas: **Profiling of aerosol microphysical properties at several EARLINET/AERONET sites during July 2012 ChArMEx/EMEP campaign**, Atmos. Chem. Phys., 16, 7043-7066, doi:10.5194/acp-16-7043-2016, 2016.
40	14/06/2016	Bougiatioti A., S. Bezantakos, I. Stavroulas, N. Kalivitis, P. Kokkalis, G. Biskos, N. Mihalopoulos, A. Papayannis, and A. Nenes: **Influence of biomass burning on CCN number and hygroscopicity during summertime in the eastern Mediterranean**, Atmos. Chem. Phys., 16, 7389-7409, doi:10.5194/acp-16-7389-2016, 2016.
41	01/07/2016	Chane Ming F., D. Vignelles, F. Jegou, G. Berthet, J.-B. Renard, F. Gheusi, and Y. Kuleshov: **Gravity-wave effects on tracer gases and stratospheric aerosol concentrations during the 2013 ChArMEx campaign**, Atmos. Chem. Phys., 16, 8023-8042, doi:10.5194/acp-16-8023-2016, 2016.
42	15/07/2016	Gkikas A., S. Basart, N. Hatzianastassiou, E. Marinou, V. Amiridis, S. Kazadzis, J. Pey, X. Querol, O. Jorba, S. Gassó, and J. M. Baldasano: **Mediterranean intense desert dust outbreaks and their vertical structure based on remote sensing data**, Atmos. Chem. Phys., 16, 8609-8642, doi:10.5194/acp-16-8609-2016, 2016.
43	18/07/2016	Vincent J., B. Laurent, R. Losno, E. Bon Nguyen, P. Roullet, S. Sauvage, S. Chevaillier, P. Coddeville, N. Ouboulmane, A.G. di Sarra, A. Tovar-Sánchez, D. Sferlazzo, A. Massanet, S. Triquet, R. Morales Baquero, M. Fornier, C. Coursier, K. Desboeufs, F. Dulac, and G. Bergametti: **Variability of mineral dust deposition in the western Mediterranean basin and South-East of France**, Atmos. Chem. Phys., 16, 8749–8766, 2016.
44	09/08/2016	Renard J.-B., F. Dulac, G. Berthet, T. Lurton, D. Vignelles, F. Jégou, T. Tonnelier, C. Thaury, M. Jeannot, B. Couté, R. Akiki, N. Verdier, M. Mallet, F. Gensdarmes, P. Charpentier, S. Mesmin, V. Duverger, J.C. Dupont, T. Elias, V. Crenn, J. Sciare, J. Giacomoni, M. Gobbi, E. Hamonou, H. Olafsson, P. Dagsson-Waldhauserova, C. Camy-Peyret, C. Mazel, T. Décamps, M. Piringer, J. Surcin, and D. Daugeron: **LOAC: a small aerosol optical counter/sizer for ground-based and balloon measurements of the size distribution and nature of atmospheric particles – Part 2: First results from balloon and unmanned aerial vehicle flights**, Atmos. Meas. Tech., 9, 3673-3686, doi:10.5194/amt-9-3673-2016, 2016.
45	25/08/2016	Di Biagio C., P. Formenti, L. Doppler, C. Gaimoz, N. Grand, G. Ancellet, J.-L. Attié, S. Bucci, P. Dubuisson, F. Fierli, M. Mallet, and F. Ravetta: **Continental pollution in the Western Mediterranean basin: large variability of the aerosol single scattering albedo and influence on the direct shortwave radiative effect**, Atmos. Chem. Phys., 16, 10591-10607, doi:10.5194/acp-16-10591-2016, 2016.
46	12/09/2016	Founda D., S. Kazadzis, N. Mihalopoulos, E. Gerasopoulos, M. Lianou, and P.I. Raptis: **Long-term visibility variation in Athens (1931–2013): a proxy for local and regional atmospheric aerosol loads**, Atmos. Chem. Phys., 16, 11219-11236, doi:10.5194/acp-16-11219-2016, 2016.
47	28/09/2016	Sicard M., R. Barragan, F. Dulac, L. Alados-Arboledas, and M. Mallet: **Aerosol optical, microphysical and radiative properties at three regional background insular sites in the western Mediterranean Basin**, Atmos. Chem. Phys., 16, 12177-12203, doi:10.5194/acp-16-12177-2016, 2016.
48	20/10/2016	Menut L., G. Siour, S. Mailler, F. Couvidat, and B. Bessagnet: **Observations and regional modeling of aerosol optical properties, speciation and size distribution over northern Africa and western Europe**, Atmos. Chem. Phys., 16, 12961-12982, doi:10.5194/acp-16-12961-2016, 2016.
49	15/11/2016	Schepanski K., M. Mallet, B. Heinold, and M. Ulrich: **North African dust transport toward the western Mediterranean basin: atmospheric controls on dust source activation and transport pathways during June–July 2013,** Atmos. Chem. Phys., 16, 14147-14168, doi:10.5194/acp-16-14147-2016, 2016.
50	22/11/2016	Sič B., L. El Amraoui, A. Piacentini, V. Marécal, E. Emili, D. Cariolle, M. Prather, and J.-L. Attié: **Aerosol data assimilation in the chemical-transport model MOCAGE during the TRAQA/ChArMEx campaign: Aerosol optical depth**, Atmos. Meas. Tech., 9, 5535-5554, doi:10.5194/amt-9-5535-2016, 2016.
51	05/12/2016	Gheusi F., P. Durand, N. Verdier, F. Dulac, J.-L. Attié, P. Commun, B. Barret, C. Basdevant, A. Clénet, S. Derrien, A. Doerenbecher, L. El Amraoui, A. Fontaine, E. Hache, C. Jambert, E. Jaumouillé, Y. Meyerfeld, L. Roblou, and F. Tocquer: **Adapted ECC ozone sonde for long-duration flights aboard boundary-layer pressurized balloons**, Atmos. Meas. Tech., 9, 5811-5832, doi:10.5194/amt-9-5811-2016, 2016.
52	04/01/2017	Salameh T., A. Borbon, C. Afif, S. Sauvage, T. Leonardis, C. Gaimoz, and N. Locoge: **Composition of gaseous organic carbon during ECOCEM in Beirut, Lebanon: new observational constraints for VOC anthropogenic emission evaluation in the Middle East**, Atmos. Chem. Phys., 17, 193-209, doi:10.5194/acp-17-193-2017, 2017.
53	10/02/2017	Becagli S., F. Anello, C. Bommarito, F. Cassola, G. Calzolai, T. Di Iorio, A. di Sarra, J.-L. Gómez-Amo, F. Lucarelli, M. Marconi, D. Meloni, F. Monteleone, S. Nava, G. Pace, M. Severi, D. M. Sferlazzo, R. Traversi, and R. Udisti: **Constraining the ship contribution to the aerosol of the Central Mediterranean**, Atmos. Chem. Phys., 17, 2067-2084, doi:10.5194/acp-17-2067-2017, 2017.
54	23/02/2017	Liuzzi, G., Masiello, G., Serio, C., Meloni, D., Di Biagio, C., and Formenti, P.: **Consistency of dimensional distributions and refractive indices of desert dust measured over Lampedusa with IASI radiances**, Atmos. Meas. Tech., 10, 599-615, doi:10.5194/amt-10-599-2017, 2017.
55	12/06/2017	Bravo-Aranda, J. A., de Arruda Moreira, G., Navas-Guzmán, F., Granados-Muñoz, M. J., Guerrero-Rascado, J. L., Pozo-Vázquez, D., Arbizu-Barrena, C., Olmo Reyes, F. J., Mallet, M., and Alados Arboledas, L.: **A new methodology for PBL height estimations based on lidar depolarization measurements: analysis and comparison against MWR and WRF model-based results**, Atmos. Chem. Phys., 17, 6839-6851, doi:10.5194/acp-17-6839-2017, 2017.
56	14/06/2017	Arndt, J., Sciare, J., Mallet, M., Roberts, G. C., Marchand, N., Sartelet, K., Sellegri, K., Dulac, F., Healy, R. M., and Wenger, J. C.: **Sources and mixing state of summertime background aerosol in the northwestern Mediterranean basin**, Atmos. Chem. Phys., 17, 6975-7001, doi:10.5194/acp-17-6975-2017, 2017.

57	30/06/2017	Claeys, M., Roberts, G., Mallet, M., Arndt, J., Sellegri, K., Sciare, J., Wenger, J., and Sauvage, B.: **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., 17, 7891-7915, doi:10.5194/acp-17-7891-2017, 2017.
58	21/07/2017	Michoud, V., Sciare, J., Sauvage, S., Dusanter, S., Léonardis, T., Gros, V., Kalogridis, C., Zannoni, N., Féron, A., Petit, J.-E., Crenn, V., Baisnée, D., Sarda-Estève, R., Bonnaire, N., Marchand, N., DeWitt, H. L., Pey, J., Colomb, A., Gheusi, F., Szidat, S., Stavroulas, I., Borbon, A., and Locoge, N.: **Organic carbon at a remote site of the western Mediterranean Basin: composition, sources and chemistry during the ChArMEx SOP2 field experiment**, Atmos. Chem. Phys., 17, 8837-8865, doi:10.5194/acp-17-8837-2017, 2017.
59	09/07/2017	Berland, K., Rose, C., Pey, J., Culot, A., Freney, E., Kalivitis, N., Kouvaratis, G., Cerro, J. C., Mallet, M., Sartelet, K., Beckmann, M., Bourrianne, T., Roberts, G., Marchand, N., Mihalopoulos, N., and Sellegri, K.: **Spatial extent of new particle events over the Mediterranean basin from multiple ground-based and airborne measurements**, Atmos. Chem. Phys., 17, 9567-9583, doi:10.5194/acp-17-9567-2017, 2017.
60	25/09/2017	Debevec, C., Sauvage, S., Gros, V., Sciare, J., Pikridas, M., Stavroulas, I., Salameh, T., Leonardis, T., Gaudion, V., Depelchin, L., Fronval, I., Sarda-Esteve, R., Baisnée, D., Bonsang, B., Savvides, C., Vrekoussis, M., and Locoge, N.: **Origin and variability of volatile organic compounds observed at an Eastern Mediterranean background site (Cyprus)**, Atmos. Chem. Phys., 17, 11355-11388, doi:10.5194/acp-17-11355-2017, 2017.
61	12/10/2017	Torres, B., Dubovik, O., Fuertes, D., Schuster, G. L., Cachorro, V. E., Lapionak, T., Goloub, P., Blarel, L., Barreto, A., Mallet, M., Toledano, C., and Tanré, D.: **Advanced characterization of aerosol properties from measurements of spectral optical depth using the GRASP algorithm**, Atmos. Meas. Tech., 10, 3743-3781, doi:10.5194/amt-10-3743-2017, 2017.
62	23/10/2017	Chrit, M., Sartelet, K., Sciare, J., Pey, J., Marchand, N., Couvidat, F., Sellegri, K., and Beekmann, M.: **Modelling organic aerosol concentrations and properties during ChArMEx summer campaigns of 2012 and 2013 in the western Mediterranean region**, Atmos. Chem. Phys., 17, 12509-12531, doi:10.5194/acp-17-12509-2017, 2017.
63	25/10/2017	Zannoni, N., Gros, V., Sarda Esteve, R., Kalogridis, C., Michoud, V., Dusanter, S., Sauvage, S., Locoge, N., Colomb, A., and Bonsang, B.: **Summertime OH reactivity from a receptor coastal site in the Mediterranean Basin**, Atmos. Chem. Phys., 17, 12645-12658, doi:10.5194/acp-17-12645-2017, 2017.
64	08/11/2017	Dayan, U., Ricaud, P., Zbinden, R., and Dulac, F.: **Atmospheric pollution concentrations over the Eastern Mediterranean during summer – A review**, Atmos. Chem. Phys., 17, 13233–13263, doi:10.5194/acp-17-13233-2017, 2017.
65	15/11/2017	Fu, Y., Desboeufs, K., Vincent, J., Bon Nguyen, E., Laurent, B., Losno, R., and Dulac, F.: **Estimating chemical composition of atmospheric deposition fluxes from mineral insoluble particles deposition collected in the Western Mediterranean region**, Atmos. Meas. Tech., 10, doi:10.5194/amt-10-4389-2017, 10, 4389–4401, 2017.
66	17/11/2017	Benavent-Oltra, J. A., Román, R., Granados-Muñoz, M. J., Pérez-Ramírez, D., Ortiz-Amezcua, P., Denjean, C., Lopatin, A., Lyamani, H., Torres, B., Guerrero-Rascado, J. L., Fuertes, D., Dubovik, O., Chaikovsky, A., Olmo, F. J., Mallet, M., and Alados-Arboledas, L.: **Comparative assessment of GRASP algorithm for a dust event over Granada (Spain) during ChArMEx-ADRIMED 2013 campaign**, Atmos. Meas. Tech., 10, 4439-4457, doi:10.5194/amt-10-4439-2017, 2017.
67	08/12/2017	Schwier, A. N., Sellegri, K., Mas, S., Charrière, B., Pey, J., Rose, C., Terminé-Roussel, B., Jaffrezo, J.-L., Parin, D., Picard, D., Ribeiro, M., Roberts, G., Sempéré, R., Marchand, N., and D'Anna, B.: **Primary marine aerosol physical and chemical emissions during a nutrient enrichment experiment in mesocosms in the Mediterranean Sea**, Atmos. Chem. Phys., 17, 14645-14660, doi:10.5194/acp-17-14645-2017, 2017.
68	19/02/2018	Kazadzis, S., Founda, D., Psiloglou, B. E., Kambezidis, H., Mihalopoulos, N., Sanchez-Lorenzo, A., Meleti, C., Raptis, P. I., Pierros, F., and Nabat, P.: **Long-term series and trends in surface solar radiation in Athens**, Greece, Atmos. Chem. Phys., 18, 2395-2411, doi:10.5194/acp-18-2395-2018, 2018.
69	13/03/2018	Nehir, M. and Koçak, M.: **Atmospheric water-soluble organic nitrogen (WSON) in the eastern Mediterranean: Origin and ramifications regarding marine productivity**, Atmos. Chem. Phys., 18, 3603-3618, doi:10.5194/acp-18-3603-2018, 2018.
70	13/03/2018	Renard, J.-B., Dulac, F., Durand, P., Bourgeois, Q., Denjean, C., Vignelles, D., Couté, B., Jeannot, M., Verdier, N., and Mallet, M.: **In situ measurements of desert dust particles above the western Mediterranean Sea with the balloon-borne Light Optical Aerosol Counter/sizer (LOAC) during the ChArMEx campaign of summer 2013**, Atmos. Chem. Phys., 18, 3677-3699, doi:10.5194/ acp-18-3677-2018, 2018.
71	29/03/2018	Meloni, D., di Sarra, A., Brogniez, G., Denjean, C., De Silvestri, L., Di Iorio, T., Formenti, P., Gómez-Amo, J. L., Gröbner, J., Kouremeti, N., Liuzzi, G., Mallet, M., Pace, G., and Sferlazzo, D. M.: **Determining the infrared radiative effects of Saharan dust: a radiative transfer modelling study based on vertically resolved measurements at Lampedusa**, Atmos. Chem. Phys., 18, 4377-4401, doi:/10.5194/acp-18-4377-2018, 2018.
72	11/04/2018	Guth, J., Marécal, V., Josse, B., Arteta, J., and Hamer, P.: **Primary aerosol and secondary inorganic aerosol budget over the Mediterranean Basin during 2012 and 2013**, Atmos. Chem. Phys., 18, 4911-4934, doi:10.5194/acp-18-4911-2018, 2018.
73	16/05/2018	Brocchi, V., Krysztofiak, G., Catoire, V., Guth, J., Marecal, V., El Amraoui, L., Dulac, F., and Ricaud, P.: **Intercontinental transport of biomass burning pollutants over the Mediterranean Basin during the summer 2014 ChArMEx-GLAM airborne campaign**, Atmos. Chem. Phys., 18, 6887-6906, doi:10.5194/acp-18-6887-2018, 2018.
74	23/05/2018	Freney, E., Sellegri, K., Chrit, M., Adachi, K., Brito, J., Waked, A., Borbon, A., Colomb, A., Dupuy, R., Pichon, J.-M., Bouvier, L., Delon, C., Jambert, C., Durand, P., Bourianne, T., Gaimoz, C., Triquet, S., Féron, A., Beekmann, M., Dulac, F., and Sartelet, K.: **Aerosol composition and the contribution of SOA formation over Mediterranean forests**, Atmos. Chem. Phys., 18, 7041-7056, doi:10.5194/acp-18-7041-2018, 2018.

75	25/05/2018	Cholakian, A., Beekmann, M., Colette, A., Coll, I., Siour, G., Sciare, J., Marchand, N., Couvidat, F., Pey, J., Gros, V., Sauvage, S., Michoud, V., Sellegri, K., Colomb, A., Sartelet, K., Langley DeWitt, H., Elser, M., Prévot, A. S. H., Szidat, S., and Dulac, F.: **Simulation of fine organic aerosols in the western Mediterranean area during the ChArMEx 2013 summer campaign**, Atmos. Chem. Phys., 18, 7287, doi:10.5194/acp-18-7287-2018, 2018.
76	07/06/2018	Trisolino, P., di Sarra, A., Anello, F., Bommarito, C., Di Iorio, T., Meloni, D., Monteleone, F., Pace, G., Piacentino, S., and Sferlazzo, D.: **A long-term time series of global and diffuse photosynthetically active radiation in the Mediterranean: interannual variability and cloud effects**, Atmos. Chem. Phys., 18, 7985-8000, /doi:10.5194/acp-18-7985-2018, 2018.
77	04/07/2018	Jaidan, N., El Amraoui, L., Attié, J.-L., Ricaud, P., and Dulac, F.: **Future changes in surface ozone over the Mediterranean Basin in the framework of the Chemistry-Aerosol Mediterranean Experiment (ChArMEx)**, Atmos. Chem. Phys., 18, 9351-9373, doi:10.5194/acp-18-9351-2018, 2018.
78	09/07/2018	Chrit, M., Sartelet, K., Sciare, J., Pey, J., Nicolas, J. B., Marchand, N., Freney, E., Sellegri, K., Beekmann, M., and Dulac, F: A**erosol sources in the western Mediterranean during summertime: A model-based approach**, Atmos. Chem. Phys., 18, 9631-9659, doi:10.5194/acp-18-9631-2018, 2018.
79	18/07/2018	Kalogridis, A.-C., Vratolis, S., Liakakou, E., Gerasopoulos, E., Mihalopoulos, N., and Eleftheriadis, K.: **Assessment of wood burning versus fossil fuel contribution to wintertime black carbon and carbon monoxide concentrations in Athens**, Greece, Atmos. Chem. Phys., 18, 10219-10236, doi:10.5194/acp-18-10219-2018, 2018.
80	09/10/2018	Debevec, C., Sauvage, S., Gros, V., Sellegri, K., Sciare, J., Pikridas, M., Stavroulas, I., Leonardis, T., Gaudion, V., Depelchin, L., Fronval, I., Sarda-Esteve, R., Baisnée, D., Bonsang, B., Savvides, C., Vrekoussis, M., and Locoge, N.: **Driving parameters of biogenic volatile organic compounds and consequences on new particle formation observed at an eastern Mediterranean background site**, Atmos. Chem. Phys., 18, 14297-14325, doi:10.5194/acp-18-14297-2018, 2018.
81	09/10/2018	Theodosi, C., Tsagkaraki, M., Zarmpas, P., Liakakou, E., Grivas, G., Paraskevopoulou, D., Lianou, M., Gerasopoulos, E., and Mihalopoulos, N.: **Multiyear chemical composition of the fine aerosol fraction in Athens, Greece, with emphasis on the contribution of residential heating in wintertime**, Atmos. Chem. Phys., 18, 14371-14391, doi:10.5194/acp-18-14371-2018, 2018.
82	10/10/2018	Desboeufs, K., Bon Nguyen, E., Chevaillier, S., Triquet, S., and Dulac, F.: **Fluxes and sources of nutrients and trace metal atmospheric deposition in the northwestern Mediterranean**, Atmos. Chem. Phys., 18, 14477-14492, doi:10.5194/acp-18-14477-2018, 2018.
83	18/10/2018	Michoud, V., Sauvage, S., Léonardis, T., Fronval, I., Kukui, A., Locoge, N., and Dusanter, S.: **Field measurements of methylglyoxal using proton transfer reaction time-of-flight mass spectrometry and comparison to the DNPH–HPLC–UV method**, Atmos. Meas. Tech., 11, 5729-5740, doi:10.5194/amt-11-5729-2018, 2018.
84	09/11/2018	Panopoulou, A., Liakakou, E., Gros, V., Sauvage, S., Locoge, N., Bonsang, B., Psiloglou, B. E., Gerasopoulos, E., and Mihalopoulos, N.: **Non-methane hydrocarbons variability in Athens during winter-time: The role of traffic and heating**, Atmos. Chem. Phys., 18, 16139-16154, doi:10.5194/acp-18-16139-2018, 2018.
85	20/12/2018	Formenti, P., Mbemba Kabuiku, L., Chiapello, I., Ducos, F., Dulac, F., and Tanré, D.: **Aerosol optical properties derived from POLDER-3/PARASOL (2005–2013) over the western Mediterranean Sea: I. Quality assessment with AERONET and in situ airborne observations**, Atmos. Meas. Tech., 11, 6761-6784, doi:10.5194/amt-11-6761-2018, 2018.
86	20/12/2018	Chrit, M., Sartelet, K., Sciare, J., Majdi, M., Nicolas, J., Petit, J.-E., and Dulac, F.: **Modeling organic aerosol concentrations and properties during winter 2014 in the northwestern Mediterranean region**, Atmos. Chem. Phys., 18, 18079-18100, doi:10.5194/acp-18-18079-2018, 2018.
87	14/01/2019	Granados-Muñoz, M. J., Sicard, M., Román, R., Benavent-Oltra, J. A., Barragán, R., Brogniez, G., Denjean, C., Mallet, M., Formenti, P., Torres, B., and Alados-Arboledas, L.: **Impact of mineral dust on shortwave and longwave radiation: evaluation of different vertically resolved parameterizations in 1-D radiative transfer computations**, Atmos. Chem. Phys., 19, 523-542, doi:10.5194/acp-19-523-2019, 2019.
88	22/01/2019	Majdi, M., Turquety, S., Sartelet, K., Legorgeu, C., Menut, L., and Kim, Y.: **Impact of wildfires on particulate matter in the Euro-Mediterranean in 2007: sensitivity to the parameterization of emissions in air quality models**, Atmos. Chem. Phys., 19, 785-812, doi:10.5194/acp-19-785-2019, 2019.
89	24/01/2019	Stavroulas, I., Bougiatioti, A., Grivas, G., Paraskevopoulou, D., Tsagkaraki, M., Zarmpas, P., Liakakou, E., Gerasopoulos, E., and Mihalopoulos, N.: **Sources and processes that control the submicron organic aerosol composition in an urban Mediterranean environment (Athens): a high temporal-resolution chemical composition measurement study**, Atmos. Chem. Phys., 19, 901-919, doi:10.5194/acp-19-901-2019, 2019.
90	01/03/2019	Kalivitis, N., Kerminen, V.-M., Kouvarakis, G., Stavroulas, I., Tzitzikalaki, E., Kalkavouras, P., Daskalakis, N., Myriokefalitakis, S., Bougiatioti, A., Manninen, H. E., Roldin, P., Petäjä, T., Boy, M., Kulmala, M., Kanakidou, M., and Mihalopoulos, N.: **Formation and growth of atmospheric nanoparticles in the eastern Mediterranean: results from long-term measurements and process simulations**, Atmos. Chem. Phys., 19, 2671-2686, doi:10.5194/acp-19-2671-2019, 2019.
91	22/03/2019	Drugé, T., Nabat, P., Mallet, M., and Somot, S.: **Model simulation of ammonium and nitrate aerosols distribution in the Euro-Mediterranean region and their radiative and climatic effects over 1979–2016**, Atmos. Chem. Phys., 19, 3707-3731, doi:10.5194/acp-19-3707-2019, 2019.
92	26/03/2019	Chazette, P., Totems, J., and Shang, X.: **Transport of aerosols over the French Riviera - link between ground-based lidar and spaceborne observations**, Atmos. Chem. Phys., 19, 3885-3904, doi:10.5194/acp-19-3885-2019, 2019.
93	05/04/2019	Cholakian, A., Colette, A., Coll, I., Ciarelli, G., and Beekmann, M.: **Future climatic drivers and their effect on PM_{10} components in Europe and the Mediterranean Sea**, Atmos. Chem. Phys., 4459-4484, doi:10.5194/acp-19-4459-2019, 2019.

94	29/04/2019	Majdi, M., Sartelet, K., Lanzafame, G. M., Couvidat, F., Kim, Y., Chrit, M., and Turquety, S.: **Precursors and formation of secondary organic aerosols from wildfires in the Euro-Mediterranean region**, Atmos. Chem. Phys., 19, 5543–5569, doi:10.5194/acp-19-5543-2019, 2019.
95	03/09/2019	Mallet, M. D., D'Anna, B., Même, A., Bove, M. C., Cassola, F., Pace, G., Desboeufs, K., Di Biagio, C., Doussin, J.-F., Maille, M., Massabò, D., Sciare, J., Zapf, P., Giorgio di Sarra, A., and Formenti, P.: **Summertime surface PM_1 aerosol composition and size by source region at the Lampedusa island in the central Mediterranean Sea**, Atmos. Chem. Phys., 19, 11123–11142, doi:10.5194/acp-19-11123-2019, 2019.
96	25/10/2019	Cholakian, A., Beekmann, M., Coll, I., Ciarelli, G., and Colette, A.: **Biogenic secondary organic aerosol sensitivity to organic aerosol simulation schemes in climate projections**, Atmos. Chem. Phys., 19, 13209-13226, doi:10.5194/acp-19-13209-2019, 2019.
97	21/11/2019	Calmer, R., Roberts, G. C., Sanchez, K. J., Sciare, J., Sellegri, K., Picard, D., Vrekoussis, M., and Pikridas, M.: **Aerosol–cloud closure study on cloud optical properties using remotely piloted aircraft measurements during a BACCHUS field campaign in Cyprus**, Atmos. Chem. Phys., 19, 13989–14007, doi:10.5194/acp-19-13989-2019, 2019.
98	13/12/2019	Thera, B. T. P., Dominutti, P., Öztürk, F., Salameh, T., Sauvage, S., Afif, C., Çetin, B., Gaimoz, C., Keleş, M., Evan, S., and Borbon, A.: **Composition and variability of gaseous organic pollution in the port megacity of Istanbul: source attribution, emission ratios and inventory evaluation**, Atmos. Chem. Phys., 19, 15131–15156, doi:10.5194/acp-19-15131-2019, 2019.
99	17/07/2020	Nabat, P., Somot, S., Cassou, C., Mallet, M., Michou, M., Bouniol, D., Decharme, B., Drugé, T., Roehrig, R., and Saint-Martin, D.: **Modulation of radiative aerosols effects by atmospheric circulation over the Euro-Mediterranean region**, Atmos. Chem. Phys., 20, 8315–8349, doi:10.5194/acp-20-8315-2020, 2020.
100	18/08/2020	Chazette, P.: **Aerosol optical properties as observed from an ultralight aircraft over the Strait of Gibraltar**, Atmos. Meas. Tech., 13, 4461–4477, doi:10.5194/amt-13-4461-2020, 2020.
101	02/09/2020	El Amraoui, L., Sič, B., Piacentini, A., Marécal, V., Frebourg, N., and Attié, J.-L.: **Aerosol data assimilation in the MOCAGE chemical transport model during the TRAQA/ChArMEx campaign: lidar observations**, Atmos. Meas. Tech., 13, 4645–4667, doi:10.5194/amt-13-4645-2020, 2020.
102	03/02/2021	Debevec, C., Sauvage, S., Gros, F., Salameh, T., Sciare, J., Dulac, F., and Locoge, N.: **Seasonal variation and origins of volatile organic compounds observed during two years at a western Mediterranean remote background site (Ersa, Cape Corsica)**, Atmos. Chem. Phys., 21, 1449–1484, doi:10.5194/acp-21-1449-2021, 2021.
103	20/05/2021	Drugé, T., Nabat, P., Mallet, M., and Somot, S.: **Future evolution of aerosols and implications for climate change in the Euro-Mediterranean region**, Atmos. Chem. Phys., 21, 7639–7669, doi:10.5194/acp-21-7639-2021, 2021.
104	26/05/2021	Michoud, V., Hallemans, E., Chiappini, L., Leoz-Garziandia, E., Colomb, A., Dusanter, S., Fronval, I., Gheusi, F., Jaffrezo, J.-L., Léonardis, T., Locoge, N., Marchand, N., Sauvage, S., Sciare, J., and Doussin, J.-F.: **Molecular characterization of gaseous and particulate oxygenated compounds at a remote site in Cape Corsica in the western Mediterranean basin**, Atmos. Chem. Phys., doi:10.5194/acp-2020-1051, 2021.
105	14/07/2021	Freney, E., Sellegri, K., Nicosia, A., Williams, L. R., Rinaldi, M., Trueblood, J. T., Prévôt, A. S. H., Thyssen, M., Grégori, G., Haëntjens, N., Dinasquet, J., Obernosterer, I., Van Wambeke, F., Engel, A., Zäncker, B., Desboeufs, K., Asmi, E., Timonen, H., and Guieu, C.: **Mediterranean nascent sea spray organic aerosol and relationships with seawater biogeochemistry**; Atmos. Chem. Phys., 21, 10625–10641, doi:10.5194/acp-21-10625-2021, 2021.
106	27/08/2021	Chiapello, I., Formenti, P., Mbemba Kabuiku, L., Ducos, F., Tanré, D., and Dulac, F.: **Aerosol optical properties derived from POLDER-3/PARASOL (2005-2013) over the western Mediterranean Sea – Part 2: Spatial distribution and temporal variability**, Atmospheric Chemistry and Physics, 21, 12715–12737, doi:10.5194/acp-21-12715-2021, 2021.
107	09/09/2021	Kukui, A., Chartier, M., Wang, J., Chen, H., Dusanter, S., Sauvage, S., Michoud, V., Locoge, N., Gros, V., Bourrianne, T., Sellegri, K., and Pichon, J.-M.: **Role of Criegee intermediates in the formation of sulfuric acid at a Mediterranean (Cape Corsica) site under influence of biogenic emissions**, Atmos. Chem. Phys., 21, 13333–13351, doi:10.5194/acp-21-13333-2021, 2021.
108	18/02/2022	Desboeufs, K., Fu, F., Bressac, M., Tovar-Sánchez, A., Triquet, S., Doussin, J.-F., Giorio, C., Chazette, P., Disnaquet, J., Feron, A., Formenti, P., Maisonneuve, F., Rodríguez-Romero, A., Zapf, P., Dulac, F., and Guieu, C.: **Wet deposition in the remote western and central Mediterranean as a source of trace metals to surface seawater**, Atmos. Chem. Phys., 22, 2309–2332, doi:10.5194/acp-22-2309-2022, 2022.

3. Other peer-reviewed ChArMEx papers

1	20/07/2010	Assamoi E.M. and C. Liousse: **A new inventory for 2-wheels vehicle emissions in West Africa for 2002**, Atmos. Environ., 32, 3985-3996, doi:10.1016/j.atmosenv.2010.06.048, 2010.
2	14/01/2011	Lambert D., M. Mallet, V. Ducrocq, F. Dulac, F. Gheusi et N. Kalthoff: **CORSiCA: a Mediterranean atmospheric and oceanographic observatory in Corsica within the framework of HyMeX and ChArMEx,** Adv. Geosci., 26, 125–131, doi:10.5194/adgeo-26-125-2011, 2011.
3	13/04/2012	Labiadh M., G. Bergametti, B. Attoui and S. Sekrafi: **Particle size distributions of South Tunisian soils erodible by wind**, Geodin. Acta, 24, 37-47, doi:10.3166/ga.24.37-47, 2011.
4	09/04/2013	Labiadh M., G. Bergametti, M. Kardous, S. Perrier, Noel Grand, B. Attoui, S. Sekrafi, and B. Marticorena: **Soil erosion by wind over tilled surfaces in South Tunisia**, Geoderma, 202-203, 8-17, 2013.
5	04/03/2014	Leroy-Cancellieri V., P. Augustin, J.-B. Filippi, C. Mari, M. Fourmentin, F. Bossuer, F. Morandini, and H. Delbarre: **Evaluation of wildland fire smoke plume dynamics and aerosol load using UV scanning lidar and fire-atmosphere modelling during the Mediterranean Letia 2010 experiment**, Nat. Hazards Earth Syst. Sci., 14, 509-523, 2014.

6	11/03/2014	Liousse C., E. Assamoi, P. Criqui, C. Granier, and R. Rosset: **Explosive growth in African combustion emissions from 2005 to 2030**, Environ. Res. Lett., 9, 035003, doi:10.1088/1748-9326/9/3/035003, 2014.
7	11/04/2014	Turquety S, L. Menut, A. Anav, N. Viovy, F. Maignan, and M. J. Wooster: **APIFLAME v1.0: high-resolution fire emission model and application to the Euro-Mediterranean region**, Geosci. Model Dev., 7, 587-612, doi:10.5194/gmd-7-587-2014, 2014.
8	23/07/2014	Nabat P., S. Somot, M. Mallet, A. Sanchez-Lorenzo, and M. Wild: **Contribution of anthropogenic sulfate aerosols to the changing Euro-Mediterranean climate since 1980**, Geophys. Res. Lett., 41, 5605–5611, doi:10.1002/2014GL060798, 2014.
9	30/07/2014	Rahal F., N. Benharrats, N. Blond, A. Clappier, and J.-L. Ponche: **Modelling of air pollution in the area of Algiers City, Algeria**, Int. J. Environ. Poll., 54, 32-58, doi:10.1504/IJEP.2014.064049, 2014.
10	12/06/2014	Nabat P., S. Somot, M. Mallet, F. Sevault, M. Chiacchio, and M. Wild: **Direct and semi-direct aerosol radiative effect on the Mediterranean climate variability using a coupled regional climate system model**, Clim. Dyn., 44, 1127-1155, doi:10.1007/s00382-014-2205-6, 2015.
11	20/04/2015	Gaudel A., G. Ancellet, and S. Gaudin-Beekmann: **Analysis of 20 years of tropospheric ozone vertical profiles by lidar and ECC at Observatoire de Haute Provence (OHP) at 44°N, 6.7°E**, Atmos. Environ., 113, 78-89, doi:10.1016/j.atmosenv.2015.04.028, 2015.
12	01/06/2016	Sellegri, K., J. Pey, C. Rose, A. Culot, H. L. DeWitt, S. Mas, A. N. Schwier, B. Temime-Roussel, B. Charriere, A. Saiz-Lopez, A. S. Mahajan, D. Parin, A. Kukui, R. Sempere, B. D'Anna, and N. Marchand: **Evidence of atmospheric nanoparticle formation from emissions of marine microorganisms**, Geophys. Res. Lett., 43, doi:10.1002/2016GL069389, 2016.
13	22/08/2016	Sicard M., R. Barragan, C. Muñoz-Porcar, A. Comerón, M. Mallet, F. Dulac, J. Pelon, L. Alados Arboledas, A. Amodeo, A. Boselli, J.A. Bravo-Aranda, G. D'amico, M.J. Granados Muñoz, G. Leto, J.L. Guerrero Rascado, F. Madonna, L. Mona, G. Pappalardo, M. R. Perrone, P. Burlizzi, F. Rocadenbosch, A. Rodríguez-Gómez, S. Scollo, N. Spinelli, G. Titos, X. Wang, and R. Zanmar Sanchez: **Contribution of EARLINET/ACTRIS to the summer 2013 Special Observing Period of the ChArMEx project: monitoring of a Saharan dust event over the western and central Mediterranean**, Int. J. Remote Sens., 37, 4698-4711, doi:10.1080/01431161.2016.1222102, 2016.
14	18/10/2016	Doerenbecher A., C. Basdevant , P. Drobinski , P. Durand , C. Fesquet , F. Bernard , P. Cocquerez , N. Verdier, and A. Vargas: **Low-atmosphere drifting balloons: Platforms for environment monitoring and forecast improvement**, Bull. Am. Meteorol. Soc., 97, 1583--1599, doi:10.1175/BAMS-D-14-00182.1 (supplement material: doi:10.1175/BAMS-D-14-00182.2), 2016.
15	11/01/2017	Barragan R., M. Sicard, J. Totems, J. F. Léon, F. Dulac, M. Mallet, J. Pelon, L. Alados-Arboledas, A. Amodeo, P. Augustin, A. Boselli, J. A. Bravo-Aranda, P. Burlizzi, P. Chazette, A. Comerón, G. D'Amico, P. Dubuisson, M. J. Granados-Muñoz, G. Leto, J. L. Guerrero-Rascado, F. Madonna, L. Mona, C. Muñoz-Porcar, G. Pappalardo, M. R. Perrone, V. Pont, F. Rocadenbosch, A. Rodriguez-Gomez, S. Scollo, N. Spinelli, G. Titos, X. Wang, and R. Zanmar Sanchez: **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 ChArMEx/ADRIMED campaign**, Air Qual. Atmos. Health, doi:10.1007/s11869-016-0447-7, 2017.
16	18/04/2017	Dhaini, H.R., Salameh, T., Waked, A., Sauvage, S., Borbon, A., Formenti, P., Doussin, J.F., Locoge, N. and Afif, C.: **Quantitative cancer risk assessment and local mortality burden for ambient air pollution in an eastern Mediterranean City**, Environ. Sci. Poll. Res., 24, 14151-14162, 2017.
17	30/04/2017	Richon, C., Dutay, J.-C., Dulac, F., Wang, R., Balkanski, Y., Nabat, P., Aumont, O., Desboeufs, K., Laurent, B., Guieu, C., Raimbault, P., and Beuvier, J.: **Modeling the impacts of atmospheric deposition of nitrogen and desert dust-derived phosphorus on nutrients and biological budgets of the Mediterranean Sea**, Progr. Oceanog., 163, 21-39, doi:10.1016/j.pocean.2014.04.009, 2018.
18	30/09/2017	Roberts, T. J., Vignelles, D., Liuzzo, M., Giudice, G., Aiuppa, A., Coltelli, M., Salerno, G., Chartier, M., Couté, B., Berthet, G., Lurton, T., Dulac, F., and Renard, J.-B.: **The primary volcanic aerosol emission from Mt Etna: Size-resolved particles with SO_2 and role in plume reactive halogen chemistry**, Geochim. Cosmochim. Acta, 222, 74-93, doi:10.1016/j.gca.2017.09.040, 2018.
19	08/02/2018	Román, R., Benavent-Oltra, J.A., Casquero-Vera, J.A., Lopatin A., Cazorla, A., Lyamani, H., Denjean, C., Fuertes, D., Pérez-Ramírez, D., Torres, B., Toledano, C., Dubovik, O., Cachorro, V. E., de Frutos, A.M., Olmo, F. J., and Alados-Arboledas, L.: **Retrieval of aerosol profiles combining sunphotometer and ceilometer measurements in GRASP code**, Atmos. Res., 204, 161-177, doi:10.1016/j.atmosres.2018.01.021, 2018.
20	02/03/2018	Ricaud, P., Zbinden, R., Catoire, V., Brocchi, V., Dulac, F., Hamonou, E., Canonici, J.-C., El Amraoui, L., Massart, S., Piguet, B., Dayan, U., Nabat, P.,, Sciare, J., Ramonet, M., Delmotte, M., di Sarra, A., Sferlazzo, D., di Iorio, T., Piacentino, S., Cristofanelli, P., Mihalopoulos, N., Kouvarakis, G., Pikridas, M., Savvides, C., Mamouri, R.-E., Nisantzi, A., Hadjimitsis, D., Attié, J.-L., Ferré, H., Kangah, Y., Jaidan, N., Guth, J., Jacquet, P., Chevrier, S., Robert, C., Bourdon, A., Bourdinot, J.-F., Etienne, J.-C., Krysztofiak, G., and Théron, P.: **The GLAM airborne campaign across the Mediterranean basin**, Bull. Am. Met. Soc., 99, 361-380, doi:10.1175/BAMS-D-16-0226.1, 2018.
21	05/04/2018	Ounissi M., Amira, A.B., and Dulac, F.: **Riverine and wet atmospheric inputs of materials to a North Africa coastal site (Annaba Bay, Algeria)**, Progr. Oceanog., 165, 19-34, doi:10.1016/j.pocean.2018.04.001, 2018.
22	25/04/2018	Genard-Zielinski, A.-C., Boissard, C., Ormeño, E., Lathière, J., Reiter, I. M., Wortham, H., Orts, J.-P., Temime-Roussel, B., Guenet, B., Bartsch, S., Gauquelin, T., and Fernandez, C.: **Seasonal variations of Quercus pubescens isoprene emissions from an in natura forest under drought stress and sensitivity to future climate change in the Mediterranean area**, Biogeosciences, 15, 4711-4730, doi:10.5194/bg-15-4711-2018, 2018.
23	03/08/2018	Richon, C., Dutay, J.-C., Dulac F., Wang, R., and Y. Balkanski: **Modeling the biogeochemical impact of atmospheric phosphate deposition from desert dust and combustion sources to the Mediterranean Sea**, Biogeosci., 15, 2499–2524, doi:10.5194/bg-15-2499-2018, 2018.

24	11/10/2018	Gutiérrez, C., Somot, S., Nabat, P., Mallet, M., Gaertner, M. A., and Perpiñán, O.: **Impact of aerosols on the spatiotemporal variability of photovoltaic energy production in the Euro-Mediterranean area**, Solar Energy, 174, 1142-1152, doi:10.1016/j.solener.2018.09.085, 2018.
25	07/01/2019	Junkermann, W., and Hacker, J. M.: **Ultrafine particles in the lower troposphere: major sources, invisible plumes, and meteorological transport processes**, Bulletin of the American Meteorological Society, 2587-2602, 2018.
26	16/01/2019	Richon, C., Dutay, J.-C., Bopp, L., Le Vu, B., Orr, J. C., Somot, S., and Dulac, F.: **Biogeochemical response of the Mediterranean Sea to the transient SRES-A2 climate change scenario**, Biogeosciences, 16, 135-165, doi:10.5194/bg-16-135-2019, 2019.
27	06/08/2019	Bouet, C., Labiadh, M. T., Rajot, J. L., Bergametti, G., Marticorena, B., des Tureaux T. H., Ltifi, M., Sekrafi, S., and Féron, A.: **Impact of desert dust on air quality: What is the meaningfulness of daily PM Standards in regions close to the sources? The Example of southern Tunisia**, Atmosphere, 10, 452, doi:10.3390/atmos10080452, 2019.
28	03/03/2020	Gutiérrez, C., Somot, S., Nabat, P., Mallet, M., Corre, L., van Meijgaard, E., Perpiñán, O., and Gaertner, M.A.: **Future evolution of surface solar radiation and photovoltaic potential in Europe: investigating the role of aerosols**, Environmental Research Letters, 15, 034035, doi:10.1088/1748-9326/ab6666, 2020.
29	02/04/2020	Lemou, A., Rabhi, L., Merabet, H., Ladji, R., Nicolas, J. B., Bonnaire, N., Abou Mustapha, M., Dilmi, R., Sciare, J., Mihalopoulos, N., and Yassaa, N.: **Chemical characterization of fine particles ($PM_{2.5}$) at a coastal site in the South Western Mediterranean during the ChArMex experiment**, Environ Sci. Pollut. Res., 27, 20427–20445, doi:10.1007/s11356-020-08168-7, 2020.
30	15/05/2020	Cerro, J. C., Cerdà, V., Querol, X., Alastuey, A., Bujosa, C., and Pey, J.: **Variability of air pollutants, and PM composition and sources at a regional background site in the Balearic Islands: Review of western Mediterranean phenomenology from a 3-year study**, Science of the Total Environment, 717, 137177, doi:10.1016/j.scitotenv.2020.137177, 2020.
31	16/11/2020	Guieu, C., D'Ortenzio, F., Dulac, F., Taillandier, V., Doglioli, A., Petrenko, A., Barrillon, S., Mallet, M., Nabat, P., and Desboeufs, K.: **Introduction: Process studies at the air–sea interface after atmospheric deposition in the Mediterranean Sea – objectives and strategy of the PEACETIME oceanographic campaign (May–June 2017)**, Biogeosci., 17, 5563–5585, doi:10.5194/bg-17-5563-2020, 2020.
32	25/03/2021	Trueblood, J. V., Nicosia, A., Engel, A., Zäncker, B., Rinaldi, M., Freney, E., Thyssen, M., Obernosterer, I., Dinasquet, J., Belosi, F., Tovar-Sánchez, A., Rodriguez-Romero, A., Santachiara, G., Guieu, C., and Sellegri, K.: **A two-component parameterization of marine ice-nucleating particles based on seawater biology and sea spray aerosol measurements in the Mediterranean Sea**, Atmos. Chem. Phys., 21, 4659–4676, doi:10.5194/acp-21-4659-2021, 2021.
33	08/10/2021	Sellitto, P., Salerno, G., Doussin, J.-F., Triquet, S., Dulac, F., and Desboeufs, K.: **Photometric Observations of Aerosol Optical Properties and Emission Flux Rates of Stromboli Volcano Plume during the PEACETIME Campaign**, Remote Sens. 2021, 13(19), 4016, doi:10.3390/rs13194016, 2021.
34	15/12/2021	Bressac, M., Wagener, T., Leblond, N., Tovar-Sánchez, A., Ridame, C., Taillandier, V., Albani, S., Guasco, S., Dufour, A., Jacquet, S. H. M., Dulac, F., Desboeufs, K., and Guieu, C.: Subsurface iron accumulation and rapid aluminum removal in the Mediterranean following African dust deposition, Biogeosciences, 18, 6435–6453, doi:10.5194/bg-18-6435-2021, 2021.
35	12/05/2022	Thera, B., Dominutti, P., Colomb, A., Michoud, V., Doussin, J.-F., Beekmann, M., Dulac, F., Sartelet, K., and Borbon, A.: **O_3-NO_y photochemistry in boundary layer polluted plumes: insights from the MEGAPOLI (Paris), ChArMEx/SAFMED (North West Mediterranean) and DACCIWA (southern West Africa) aircraft campaigns**, Environ. Sci.: Atmos., 2(4), 659-686, doi:10.1039/d1ea00093d, 2022.

4. ChArMEx-related PhD dissertations

1	10/9/2011	Mohamed Taieb LABIADH	Univ. Paris 7	Quantification de l'érosion éolienne sur des surfaces anthropisées : simulations des flux en masse à l'échelle des zones arides Tunisiennes
2	11/2/2013	Audrey GAUDEL	Univ. Pierre et Marie Curie, Paris	Variabilité inter-annuelle de 20 ans de mesure de l'ozone troposphérique par lidar et sondes électrochimiques à l'Observatoire de Haute Provence (OHP)
3	15/10/2013	Romain BAGHI	Univ. Paul Sabatier, Toulouse	Émissions biogéniques de composés organiques volatils en région méditerranéenne : développement instrumental, mesures et modélisation
4	06/12/2013	José NICOLAS	Univ. Versailles Saint-Quentin	Caractérisation physico-chimique de l'aérosol troposphérique en Méditerranée : Sources et devenir
5	30/5/2013	Stavros STROMATAS	Polytechnique, Palaiseau	Contributions relatives des aérosols minéraux et de feux sur la qualité de l'air en Euro-Mediterannée
6	10/3/2014	Yiguo WANG	Polytechnique, Palaiseau	A new air quality modelling approach at the regional scale using lidar data assimilation
7	17/3/2014	Ambre DEMOISSON	Univ. de Toulon	Etude de la source et du transport des aérosols marins en zone côtière méditerranéenne
8	23/6/2014	Anne-Cyrielle GENARD	Univ. Aix-Marseille	Impact du stress hydrique sur les émissions d'isoprène du chêne blanc
9*	09/10/2014	Pierre NABAT	Univ. Paul Sabatier, Toulouse	Intéractions aérosols-rayonnement-nuages et variabilité climatique en méditerranée - Approche par la modelisation régionale couplée
10	27/10/2014	Tugba AGACAYAK	Istanbul Technical Univ. (Turkey)	Investigation of impacts of aerosols on Eastern Mediterranean Region Climate

11	07/11/2014	Clémence ROSE	Univ. Blaise Pascal Clermont-Ferrand	Nucléation et formation de nouvelles particules à haute altitude
12	07/11/2014	Athina Cerise KALOGRIDIS	Univ. Paris XI-Orsay	Caractérisation des composés organiques volatils en région méditerranéenne
13	14/11/2014	Thérèse SALAMEH	USJ-Beyrouth (Lebanon)	Composition and source apportionment of non-methane volatile organic compounds in Beirut, Lebanon
14	15/4/2015	Farid RAHAL	Univ. des Sciences et de la Technologie d'Oran (Algeria)	Modélisation et simulation de la pollution atmosphérique. Le cas de la région d'Alger
15	21/7/2015	Dalia SALAMEH	Univ. Aix Marseille	Impacts atmosphériques des activités portuaires et industrielles sur les particules fines ($PM_{2.5}$) à Marseille
16	13/9/2015	Leila AOURAGH	Univ de Batna (Algeria)	Etude de la qualité de l'air urbain au niveau de la ville de Batna : Cas du transport routier
17	16/10/2015	Géraldine REA	Univ. Pierre et Marie Curie, Paris	Impact des feux de végétation sur la pollution particulaire en région Euro-Méditerranéenne et en Australie
18	17/11/2015	Wani TAMAS	Univ. de Corse	Prévision statistique de la qualité de l'air et d'épisodes de pollution atmosphérique en Corse
19	30/11/2015	Nora ZANNONI	Paris XI-Orsay	OH reactivity measurements in the Mediterranean region
20	3/2016	Silvia BUCCI	Università di Ferrara	Aerosol and pollutant transport in the Mediterranean area
21	19/7/2016	Alexandre SYLVESTRE	Univ. Aix Marseille	Caractérisation de l'aérosol industriel et quantification de sa contribution aux $PM_{2.5}$ atmosphériques
22	03/10/2016	Julie VINCENT	Univ. Paris Diderot	Evaluation du dépôt atmosphérique de poussières sahariennes en Méditerranée
23	05/12/2016	Elise HALLEMANS	Univ. Paris Est Créteil	Étude de la formation, du vieillissement et de la composition chimique de l'aérosol organique secondaire dans le bassin méditerranéen
24	07/12/2016	Marine CLAEYS	Univ. Paul Sabatier, Toulouse	Modélisation des aérosols marins et de leur impact radiatif direct sur le bassin méditerranéen dans le cadre du projet CHARMEX
25	06/10/2017	Lydie Mbemba KABUIKU	Univ. Lille1	Contribution des observations ChArMEx en Méditerranée à l'analyse des produits avancés aérosols POLDER-3/PARASOL
26	01/12/2017	Kouadio Guy Yannick KANGAH	Univ. Paul Sabatier, Toulouse	Mesure du protoxyde d'azote (N_2O) depuis l'espace
27°	07/12/2017	Camille RICHON	UVSQ Paris-Saclay	Etude du devenir des apports atmosphériques à l'aide d'un modèle couplé dynamique-biogéochimie de la Méditerranée
28	11/12/2017	Cécile DEBEVEC	Univ. Lille1, IMT Nord Europe	Identification des déterminants de la concentration en polluants organiques gazeux dans le bassin Méditerranéen Est
29	18/12/2017	Vanessa BROCCHI	Université Orléans	Caractérisation de sources de pollution troposphérique en régions méditerranéenne et ouest-africaine par mesures in situ en avion et modélisation
30	05/2/2018	Nizar JAIDAN	Univ. Paul Sabatier, Toulouse	Etude des processus d'import et d'export de la pollution gazeuse et particulaire au-dessus du bassin méditerranéen dans le cadre du projet ChArMEx
31°	09/3/2018	Kahina DJAOUDI	Univ. Aix Marseille	Rôle de l'apport atmosphérique sur les processus de biodégradation et la stœchiométrie de la matière organique dissoute en mer Méditerranée
32	06/4/2018	Mounir CHRIT	Ecole des Ponts ParisTech, Univ. Paris Est Créteil	Formation des aérosols organiques et inorganiques en Méditerranée
33	04/10/2018	Yinghe FU	Univ. Paris Denis Diderot Paris 7	Etude du rôle des apports atmosphériques en aérosols désertiques comme source de métaux traces pour les espèces marines diazotrophes
34	17/12/2018	Arineh CHOLAKIAN	Univ. Paris Denis Diderot Paris 7	Evolution de la composition chimique de l'atmosphère au-dessus du bassin méditerranéen : forçages, mécanismes, et scénarios
35	20/12/2018	Marwa MAJDI	Ecole des Ponts ParisTech, Univ. Paris Est Créteil	Impact des feux de forêts sur la qualité de l'air : influence de la formation des aérosols organiques secondaires et du mélange des particules
36	19/11/2019	Anastasia PANOPOULOU	Univ. of Crete (Greece), IMT Nord Europe	VOC source apportionment and emission inventory evaluation over the great Athens, comparison with other cities of the Mediterranean basin
37	03/10/2020	Abdelkader Madjid LEMOU	U.S.T.B.H. Alger (Algeria)	Caractérisation chimique des sources aérosols dans un site côtier en Algérie
38	10/12/2020	José Carlos CERRO GARRIDO	Univ. Illes Balears	Study and characterization of regional background atmospheric aerosol in the Balearic Islands, Western Mediterranean
39	11/5/2021	Baye Toulaye Pehan THERA	Univ. Clermont Auvergne	La pollution photo-oxydante en zone source et au cours de son transport : étude comparée aux moyennes latitudes Nord, en Méditerranée et en Afrique de l'Ouest

40	05/12/2022	Marvin DUFRESNE	IMT Nord Europe	Sources et déterminants des composés organiques volatiles à Marseille
41	20/12/2023	Aliki CHRISTODOULOU	Univ. de Lille + Graduate School Cyprus Institute	New insights into the composition and sources of submicron aerosols and trace gases in contrasted urban environments of the Eastern Mediterranean

**Also part of HyMeX*

°*Also part of MERMEX*