

List of Publications

Piero Lionello
160 records - Scopus export, 16 July 2026
Reverse chronological order

2026

1. Lionello, Piero; Di Fant, Valeria; Pasquier, Ulysse; Tosi, Luigi; Cozannet, Gonéri Le; Nicholls, Robert J.; Cramer, Wolfgang; Cremades, Roger; Giupponi, Carlo; Hinkel, Jochen; Sfriso, Adriano; Teatini, Pietro; Vafeidis, Athanasios T.; Umgiesser, Georg; Haasnoot, Marjolijn. (2026). Long-term adaptation pathways for Venice and its lagoon under sea-level rise. *Scientific Reports*, **16**(1). DOI: 10.1038/s41598-026-39108-z

2025

2. Hassoun, Abed El Rahman; Mojtahid, Meryem; Merheb, Mohammad; Lionello, Piero; Gattuso, Jean-Pierre; Cramer, Wolfgang. (2025). Climate change risks on key open marine and coastal mediterranean ecosystems. *Scientific Reports*, **15**(1). DOI: 10.1038/s41598-025-07858-x
3. Jézéquel, Aglaé; Faranda, Davide; Drobinski, Philippe; Lionello, Piero. (2025). Extreme Event Attribution in the Mediterranean. *International Journal of Climatology*, **45**(7). DOI: 10.1002/joc.8799
4. Vicente-Serrano, Sergio M.; Tramblay, Yves; Reig, Fergus; González-Hidalgo, José C.; Beguería, Santiago; Brunetti, Michele; Kalin, Ksenija Cindrić; Patalen, Leonardo; Kržič, Aleksandra; Lionello, Piero; Lima, Miguel M.; Trigo, Ricardo M.; El-Kenawy, Ahmed M.; Eddenjal, Ali; Türkes, Murat; Koutroulis, Aristeidis; Manara, Veronica; Maugeri, Maurizio; Badi, Wafae; Mathbout, Shifa; Bertalanič, Renato; Bocheva, Lilia; Dabanli, Ismail; Dumitrescu, Alexandru; Dubuisson, Brigitte; Sahabi-Abed, Salah; Abdulla, Fayez; Fayad, Abbas; Hodzic, Sabina; Ivanov, Mirjana; Radevski, Ivan; Peña-Angulo, Dhais; Lorenzo-Lacruz, Jorge; Domínguez-Castro, Fernando; Gimeno-Sotelo, Luis; García-Herrera, Ricardo; Franquesa, Magí; Halifa-Marín, Amar; Adell-Michavila, Maria; Noguera, Ivan; Barriopedro, David; Garrido-Perez, Jose M.; Azorin-Molina, Cesar; Andres-Martin, Miguel; Gimeno, Luis; Nieto, Raquel; Llasat, Maria Carmen; Markonis, Yannis; Selmi, Rabeb; Ben Rached, Soumaya; Radovanović, Slavica; Soubeyroux, Jean-Michel; Ribes, Aurélien; Saidi, Mohamed Elmeahdi; Bataineh, Siham; El Khalki, El Mahdi; Robaa, Sayed; Boucetta, Amina; Alsafadi, Karam; Mamassis, Nikos; Mohammed, Safwan; Fernández-Duque, Beatriz; Cheval, Sorin; Moutia, Sara; Stevkov, Aleksandra; Stevkova, Silvana; Luna, M. Yolanda; Potopová, Vera. (2025). High temporal variability not trend dominates Mediterranean precipitation. *Nature*, **639**(8055), 658-666. DOI: 10.1038/s41586-024-08576-6
5. Pappaccogli, Gianluca; Zonato, Andrea; Martilli, Alberto; Buccolieri, Riccardo; Lionello, Piero. (2025). MLUCM BEP + BEM: an offline one-dimensional multi-layer urban canopy model based on the BEP + BEM scheme. *Geoscientific Model Development*, **18**(19), 7129-7145. DOI: 10.5194/gmd-18-7129-2025
6. Bozzeda, Fabio; Sigovini, Marco; Lionello, Piero. (2025). Neural Network Modelling of Temperature and Salinity in the Venice Lagoon. *Climate*, **13**(9). DOI: 10.3390/cli13090189
7. Parras-Berrocal, I.M.; Waldman, R.; Gonzalez, N.M.; Ahrens, B.; Cabos, W.; Jordà, G.; Lionello, P.; Sannino, G.; Somot, S.. (2025). Regionalized Mediterranean relative sea level projections under high-emission regional climate scenarios. *Environmental Research Letters*, **20**(11). DOI: 10.1088/1748-9326/ae15a5
8. Jebbad, Raghdia; Sierra, Joan Pau; Gironella, Xavier; Mössö, Cesar; González-Marco, Daniel; Lionello, Piero. (2025). Uncertainty in the Assessment of Wave Overtopping in Mediterranean Moroccan Ports Associated with Climate Change. *Journal of Marine Science and Engineering*, **13**(10). DOI: 10.3390/jmse13102021

2024

9. Pappaccogli, Gianluca; Giangrande, Francesco; Esposito, Antonio; Donateo, Antonio; Lionello, Piero; Buccolieri, Riccardo. (2024). Dynamics of urban heat island intensity in Lecce, Italy: seasonal, diurnal and heat wave influence. *Bulletin of Atmospheric Science and Technology*, **5**(1). DOI: 10.1007/s42865-024-00072-z
10. Parras-Berrocal, I.M.; Waldman, R.; Sevault, F.; Somot, S.; Gonzalez, N.; Ahrens, B.; Anav, A.; Djurdjević, V.; Gualdi, S.; Hamouda, M.E.; Li, L.; Lionello, P.; Sannino, G.; Sein, D.V.. (2024). Response of the Mediterranean

11. Causio, Salvatore; Federico, Ivan; Jansen, Eric; Mentaschi, Lorenzo; Ciliberti, Stefania Angela; Coppini, Giovanni; Lionello, Piero. (2024). The Black Sea near-past wave climate and its variability: a hindcast study. *Frontiers in Marine Science*, **11**. DOI: 10.3389/fmars.2024.1406855
12. Lionello, Piero; D'Agostino, Roberta; Ferreira, David; Nguyen, Hanh; Singh, Martin S.. (2024). The Hadley circulation in a changing climate. *Annals of the New York Academy of Sciences*, **1534**(1), 69-93. DOI: 10.1111/nyas.15114

2023

13. Flaounas, Emmanouil; Aragão, Leonardo; Bernini, Lisa; Dafis, Stavros; Doiteau, Benjamin; Flocas, Helena; Gray, Suzanne L.; Karwat, Alexia; Kouroutzoglou, John; Lionello, Piero; Miglietta, Mario Marcello; Pantillon, Florian; Pasquero, Claudia; Patlakas, Platon; Picornell, María Ángeles; Porcù, Federico; Priestley, Matthew D. K.; Reale, Marco; Roberts, Malcolm J.; Saaroni, Hadas; Sandler, Dor; Scoccimarro, Enrico; Sprenger, Michael; Ziv, Baruch. (2023). A composite approach to produce reference datasets for extratropical cyclone tracks: application to Mediterranean cyclones. *Weather and Climate Dynamics*, **4**(3), 639-661. DOI: 10.5194/wcd-4-639-2023
14. Ingrosso, Roberto; Lionello, Piero; Miglietta, Mario Marcello; Salvadori, Gianfausto. (2023). Brief communication: Towards a universal formula for the probability of tornadoes. *Natural Hazards and Earth System Sciences*, **23**(7), 2443-2448. DOI: 10.5194/nhess-23-2443-2023
15. Zittis, George; Ahrens, Bodo; Obermann-Hellhund, Anika; Giannakis, Elias; Risto, Danny; Agulles Gamez, Miguel; Jorda, Gabriel; Quesada Peña, Mónica; Lora Rodríguez, Veronica; Guersi Sauret, Jose Luis; Lionello, Piero; Briche, Elodie; Collignan, Julie; Grätz, Matthias; Arikas, Damian; Stylianou, Constantinos; Neophytou, Haris; Serghides, Despina. (2023). Maritime transport and regional climate change impacts in large EU islands and archipelagos. *Euro-Mediterranean Journal for Environmental Integration*, **8**(2), 441-454. DOI: 10.1007/s41207-023-00370-6
16. Kotsias, G.; Lolis, C.J.; Hatzianastassiou, N.; Bakas, N.; Lionello, P.; Bartzokas, A.. (2023). Objective climatology and classification of the Mediterranean cyclones based on the ERA5 data set and the use of the results for the definition of seasons. *Theoretical and Applied Climatology*, **152**(1-2), 581-597. DOI: 10.1007/s00704-023-04374-8
17. Ferrarin, Christian; Orlić, Mirko; Bajo, Marco; Davolio, Silvio; Umgieser, Georg; Lionello, Piero. (2023). The contribution of a mesoscale cyclone and associated meteotsunami to the exceptional flood in Venice on November 12, 2019. *Quarterly Journal of the Royal Meteorological Society*, **149**(756), 2929-2942. DOI: 10.1002/qj.4539

2022

18. Kotsias, George; Lolis, Christos J.; Hatzianastassiou, Nikolaos; Lionello, Piero; Bartzokas, Aristides. (2022). A comparison of different approaches for the definition of seasons in the Mediterranean region. *International Journal of Climatology*, **42**(3), 1954-1974. DOI: 10.1002/joc.7345
19. Reale, Marco; Cabos Narvaez, William David; Cavicchia, Leone; Conte, Dario; Coppola, Erika; Flaounas, Emmanouil; Giorgi, Filippo; Gualdi, Silvio; Hochman, Assaf; Li, Laurent; Lionello, Piero; Podrascanin, Zorica; Salon, Stefano; Sanchez-Gomez, Emilia; Scoccimarro, Enrico; Sein, Dmitry V.; Somot, Samuel. (2022). Future projections of Mediterranean cyclone characteristics using the Med-CORDEX ensemble of coupled regional climate system models. *Climate Dynamics*, **58**(9-10), 2501-2524. DOI: 10.1007/s00382-021-06018-x
20. Carnicer, Jofre; Alegria, Andrés; Giannakopoulos, Christos; Di Giuseppe, Francesca; Karali, Anna; Koutsias, Nikos; Lionello, Piero; Parrington, Mark; Vitolo, Claudia. (2022). Global warming is shifting the relationships between fire weather and realized fire-induced CO2 emissions in Europe. *Scientific Reports*, **12**(1). DOI: 10.1038/s41598-022-14480-8
21. Chiggiato, Jacopo; Schroeder, Katrin; Mourre, Baptiste; Miramontes, Elda; Lionello, Piero; Marcos, Marta; Pinardi, Nadia; Mason, Evan; Álvarez, Marta; Trincardi, Fabio. (2022). Introduction. *Oceanography of the Mediterranean Sea: An Introductory Guide*, 1-11. DOI: 10.1016/B978-0-12-823692-5.00002-9
22. Lionello, Piero; Giorgi, Filippo; Rohling, Eelco; Seager, Richard. (2022). Mediterranean climate. *Oceanography of the Mediterranean Sea: An Introductory Guide*, 41-91. DOI: 10.1016/B978-0-12-823692-5.00011-X

23. Lionello, Piero; Sannino, Gianmaria; Vilibić, Ivica. (2022). Surface wave and sea surface dynamics in the Mediterranean. *Oceanography of the Mediterranean Sea: An Introductory Guide*, 161-207. DOI: 10.1016/B978-0-12-823692-5.00007-8
24. Diez-Sierr, Javier; Iturbide, Maialen; Gutiérrez, José M.; Fernández, Jesús; Milovac, Josipa; Cofiño, Antonio S.; Cimadevilla, Ezequiel; Nikulin, Grigory; Levavasseur, Guillaume; Kjellström, Erik; Bülow, Katharina; Horányi, András; Brookshaw, Anca; García-Díe, Markel; Pérez, Antonio; Baño-Medin, Jorge; Ahrens, Bodo; Alias, Antoinette; Ashfaq, Moetasim; Bukovsky, Melissa; Buonomo, Erasmo; Caluwaerts, Steven; Chou, Sin Chan; Christensen, Ole B.; Ciarlò, James M.; Coppola, Erika; Corre, Lola; Demory, Marie-Estelle; Djurdjevic, Vladimir; Evans, Jason P.; Fealy, Rowan; Feldmann, Hendrik; Jacob, Daniela; Jayanarayanan, Sanjay; Katzfey, Jack; Keuler, Klaus; Kittel, Christoph; Kurnaz, Mehmet Levent; Laprise, René; Lionello, Piero; McGinnis, Seth; Mercogliano, Paola; Nabat, Pierre; Önal, Baris; Ozturk, Tugba; Panitz, Hans-Jürgen; Paquin, Dominique; Pieczka, Ildikó; Raffaele, Francesca; Remedio, Armelle Reca; Scinocca, John; Sevault, Florence; Somot, Samuel; Steger, Christian; Tangang, Fredolin; Teichmann, Claas; Termonia, Piet; Thatcher, Marcus; Torma, Csaba; Van Meijgaard, Erik; Robert Vautard; Kirsten Warrach-Sagi; Winger, Katja; Zittis, George. (2022). The Worldwide C3S CORDEX Grand Ensemble A Major Contribution to Assess Regional Climate Change in the IPCC AR6 Atlas. *Bulletin of the American Meteorological Society*, **103**(12), E2804-E2826. DOI: 10.1175/BAMS-D-22-0111.1
25. Ferrarin, Christian; Lionello, Piero; Orlić, Mirko; Raichich, Fabio; Salvadori, Gianfausto. (2022). Venice as a paradigm of coastal flooding under multiple compound drivers. *Scientific Reports*, **12**(1). DOI: 10.1038/s41598-022-09652-5

2021

26. Causio, Salvatore; Ciliberti, Stefania A.; Clementi, Emanuela; Coppini, Giovanni; Lionello, Piero. (2021). A modelling approach for the assessment of wave-currents interaction in the black sea. *Journal of Marine Science and Engineering*, **9**(8). DOI: 10.3390/jmse9080893
27. Kotsias, George; Lolis, Christos J.; Hatzianastassiou, Nikolaos; Lionello, Piero; Bartzokas, Aristides. (2021). An objective definition of seasons for the Mediterranean region. *International Journal of Climatology*, **41**(S1), E1889-E1905. DOI: 10.1002/joc.6819
28. Lionello, Piero; Barriopedro, David; Ferrarin, Christian; Nicholls, Robert J.; Orlić, Mirko; Raichich, Fabio; Reale, Marco; Umgiesser, Georg; Voudoukas, Michalis; Zanchettin, Davide. (2021). Extreme floods of Venice: Characteristics, dynamics, past and future evolution (review article). *Natural Hazards and Earth System Sciences*, **21**(8), 2705-2731. DOI: 10.5194/nhess-21-2705-2021
29. Agulles, Miguel; Jordà, Gabriel; Lionello, Piero. (2021). Flooding of Sandy Beaches in a Changing Climate. The Case of the Balearic Islands (NW Mediterranean). *Frontiers in Marine Science*, **8**. DOI: 10.3389/fmars.2021.760725
30. Ferrarin, Christian; Bajo, Marco; Benetazzo, Alvise; Cavaleri, Luigi; Chiggiato, Jacopo; Davison, Silvio; Davolio, Silvio; Lionello, Piero; Orlić, Mirko; Umgiesser, Georg. (2021). Local and large-scale controls of the exceptional Venice floods of November 2019. *Progress in Oceanography*, **197**. DOI: 10.1016/j.pocean.2021.102628
31. Zanchettin, Davide; Bruni, Sara; Raichich, Fabio; Lionello, Piero; Adloff, Fanny; Androsov, Alexey; Antonioli, Fabrizio; Artale, Vincenzo; Carminati, Eugenio; Ferrarin, Christian; Fofonova, Vera; Nicholls, Robert J.; Rubinetti, Sara; Rubino, Angelo; Sannino, Gianmaria; Spada, Giorgio; Thiéblemont, Rémi; Tsimplis, Michael; Umgiesser, Georg; Vignudelli, Stefano; Wöppelmann, Guy; Zerbini, Susanna. (2021). Sea-level rise in Venice: Historic and future trends (review article). *Natural Hazards and Earth System Sciences*, **21**(8), 2643-2678. DOI: 10.5194/nhess-21-2643-2021
32. Lionello, Piero; Belmonte, Genuario; Pollice, Fabio; Ruggiero, Livio. (2021). THE MUSEUM OF NATURAL ENVIRONMENT OF THE UNIVERSITY OF SALENTO: HISTORY, COLLECTION, MISSION; [IL MUSEO DELL'AMBIENTE DELL'UNIVERSITÀ DEL SALENTO: STORIA, CONTENUTI, MISSIONE]. *Annali di Storia delle Università Italiane*, **25**(1), 187-197. DOI: 10.17396/100962
33. Umgiesser, Georg; Bajo, Marco; Ferrarin, Christian; Cucco, Andrea; Lionello, Piero; Zanchettin, Davide; Papa, Alvise; Tosoni, Alessandro; Ferla, Maurizio; Coraci, Elisa; Morucci, Sara; Crosato, Franco; Bonometto, Andrea; Valentini, Andrea; Orlić, Mirko; Haigh, Ivan D.; Nielsen, Jacob Woge; Bertin, Xavier; Fortunato, André Bustorff; Pérez Gómez, Begoña; Alvarez Fanjul, Enrique; Paradis, Denis; Jourdan, Didier; Pasquet, Audrey; Mourre, Baptiste; Tintoré, Joaquín; Nicholls, Robert J.. (2021). The prediction of floods in Venice: Methods, models and uncertainty (review article). *Natural Hazards and Earth System Sciences*, **21**(8), 2679-2704. DOI: 10.5194/nhess-21-2679-2021

34. Lionello, Piero; Nicholls, Robert J.; Umgiesser, Georg; Zanchettin, Davide. (2021). Venice flooding and sea level: Past evolution, present issues, and future projections (introduction to the special issue). *Natural Hazards and Earth System Sciences*, **21**(8), 2633-2641. DOI: 10.5194/nhess-21-2633-2021

2020

35. Ingrosso, Roberto; Lionello, Piero; Miglietta, Mario Marcello; Salvadori, Gianfausto. (2020). A statistical investigation of mesoscale precursors of significant tornadoes: The Italian case study. *Atmosphere*, **11**(3). DOI: 10.3390/atmos11030301
36. Conte, Dario; Gualdi, Silvio; Lionello, Piero. (2020). Effect of model resolution on intense and extreme precipitation in the mediterranean region. *Atmosphere*, **11**(7). DOI: 10.3390/atmos11070699
37. Drobinski, Philippe; Da Silva, Nicolas; Bastin, Sophie; Mailler, Sylvain; Muller, Caroline; Ahrens, Bodo; Christensen, Ole B.; Lionello, Piero. (2020). How warmer and drier will the Mediterranean region be at the end of the twenty-first century?. *Regional Environmental Change*, **20**(3). DOI: 10.1007/s10113-020-01659-w
38. Sierra, Joan Pau; Castrillo, Ricard; Mestres, Marc; Mössö, César; Lionello, Piero; Marzo, Luigi. (2020). Impact of climate change on wave energy resource in the mediterranean coast of morocco. *Energies*, **13**(11). DOI: 10.3390/en13112993
39. Lin-Ye, Jue; García-León, Manuel; Gràcia, Vicente; Ortego, María Isabel; Lionello, Piero; Conte, Dario; Pérez-Gómez, Begoña; Sánchez-Arcilla, Agustín. (2020). Modeling of future extreme storm surges at the NW mediterranean coast (Spain). *Water (Switzerland)*, **12**(2). DOI: 10.3390/w12020472
40. D'Agostino, Roberta; Scambiati, Ascanio Luigi; Jungclaus, Johann; Lionello, Piero. (2020). Poleward Shift of Northern Subtropics in Winter: Time of Emergence of Zonal Versus Regional Signals. *Geophysical Research Letters*, **47**(19). DOI: 10.1029/2020GL089325
41. D'Agostino, Roberta; Lionello, Piero. (2020). The atmospheric moisture budget in the Mediterranean: Mechanisms for seasonal changes in the Last Glacial Maximum and future warming scenario. *Quaternary Science Reviews*, **241**. DOI: 10.1016/j.quascirev.2020.106392
42. Lionello, Piero; Scarascia, Luca. (2020). The relation of climate extremes with global warming in the Mediterranean region and its north versus south contrast. *Regional Environmental Change*, **20**(1). DOI: 10.1007/s10113-020-01610-z

2019

43. Reale, Marco; Liberato, Margarida L.R.; Lionello, Piero; Pinto, Joaquim G.; Salon, Stefano; Ulbrich, Sven. (2019). A Global Climatology of Explosive Cyclones using a Multi-Tracking Approach. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **71**(1), 1-19. DOI: 10.1080/16000870.2019.1611340
44. Bastin, Sophie; Drobinski, Philippe; Chiriaco, Marjolaine; Bock, Olivier; Roehrig, Romain; Gallardo, Clemente; Conte, Dario; Domínguez Alonso, Marta; Li, Laurent; Lionello, Piero; Parracho, Ana C.. (2019). Impact of humidity biases on light precipitation occurrence: Observations versus simulations. *Atmospheric Chemistry and Physics*, **19**(3), 1471-1490. DOI: 10.5194/acp-19-1471-2019
45. Lembo, Valerio; Folini, Doris; Wild, Martin; Lionello, Piero. (2019). Inter-hemispheric differences in energy budgets and cross-equatorial transport anomalies during the 20th century. *Climate Dynamics*, **53**(1-2), 115-135. DOI: 10.1007/s00382-018-4572-x
46. Isola, Ilaria; Zanchetta, Giovanni; Drysdale, Russell N.; Regattieri, Eleonora; Bini, Monica; Bajo, Petra; Hellstrom, John C.; Baneschi, Ilaria; Lionello, Piero; Woodhead, Jon; Greig, Alan. (2019). The 4.2 ka event in the central Mediterranean: New data from a Corchia speleothem (Apuan Alps, central Italy). *Climate of the Past*, **15**(1), 135-151. DOI: 10.5194/cp-15-135-2019
47. Lionello, Piero; Conte, Dario; Reale, Marco. (2019). The effect of cyclones crossing the Mediterranean region on sea level anomalies on the Mediterranean Sea coast. *Natural Hazards and Earth System Sciences*, **19**(7), 1541-1564. DOI: 10.5194/nhess-19-1541-2019

2018

48. Wolff, Claudia; Vafeidis, Athanasios T.; Muis, Sanne; Lincke, Daniel; Satta, Alessio; Lionello, Piero; Jimenez, Jose A.; Conte, Dario; Hinkel, Jochen. (2018). A Mediterranean coastal database for assessing the impacts of sea-level rise and associated hazards. *Scientific Data*, **5**. DOI: 10.1038/sdata.2018.44
49. Flaounas, Emmanouil; Kelemen, Fanni Dora; Wernli, Heini; Gaertner, Miguel Angel; Reale, Marco; Sanchez-Gomez, Emilia; Lionello, Piero; Calmanti, Sandro; Podrascanin, Zorica; Somot, Samuel; Akhtar, Naveed; Romera, Raquel; Conte, Dario. (2018). Assessment of an ensemble of ocean-atmosphere coupled and uncoupled regional climate models to reproduce the climatology of Mediterranean cyclones. *Climate Dynamics*, **51**(3), 1023-1040. DOI: 10.1007/s00382-016-3398-7
50. Cramer, Wolfgang; Guiot, Joël; Fader, Marianela; Garrabou, Joaquim; Gattuso, Jean-Pierre; Iglesias, Ana; Lange, Manfred A.; Lionello, Piero; Llasat, Maria Carmen; Paz, Shlomit; Peñuelas, Josep; Snoussi, Maria; Toreti, Andrea; Tsimplis, Michael N.; Xoplaki, Elena. (2018). Climate change and interconnected risks to sustainable development in the Mediterranean. *Nature Climate Change*, **8**(11), 972-980. DOI: 10.1038/s41558-018-0299-2
51. Pomaro, Angela; Cavaleri, Luigi; Papa, Alvise; Lionello, Piero. (2018). Data Descriptor: 39 years of directional wave recorded data and relative problems, climatological implications and use. *Scientific Data*, **5**. DOI: 10.1038/sdata.2018.139
52. Lionello, Piero; Scarascia, Luca. (2018). The relation between climate change in the Mediterranean region and global warming. *Regional Environmental Change*, **18**(5), 1481-1493. DOI: 10.1007/s10113-018-1290-1

2017

53. Rivetti, Irene; Boero, Ferdinando; Frascchetti, Simonetta; Zambianchi, Enrico; Lionello, Piero. (2017). Anomalies of the upper water column in the Mediterranean Sea. *Global and Planetary Change*, **151**, 68-79. DOI: 10.1016/j.gloplacha.2016.03.001
54. Lionello, Piero; Özsoy, Emin; Planton, Serge; Zanchetta, Giovanni. (2017). Climate Variability and Change in the Mediterranean Region. *Global and Planetary Change*, **151**, 1-3. DOI: 10.1016/j.gloplacha.2017.04.005
55. Pomaro, Angela; Cavaleri, Luigi; Lionello, Piero. (2017). Climatology and trends of the Adriatic Sea wind waves: analysis of a 37-year long instrumental data set. *International Journal of Climatology*, **37**(12), 4237-4250. DOI: 10.1002/joc.5066
56. Lembo, Valerio; Folini, Doris; Wild, Martin; Lionello, Piero. (2017). Energy budgets and transports: global evolution and spatial patterns during the twentieth century as estimated in two AMIP-like experiments. *Climate Dynamics*, **48**(5-6), 1793-1812. DOI: 10.1007/s00382-016-3173-9
57. D'Agostino, Roberta; Lionello, Piero. (2017). Evidence of global warming impact on the evolution of the Hadley Circulation in ECMWF centennial reanalyses. *Climate Dynamics*, **48**(9-10), 3047-3060. DOI: 10.1007/s00382-016-3250-0
58. D'Agostino, Roberta; Lionello, Piero; Adam, Ori; Schneider, Tapio. (2017). Factors controlling Hadley circulation changes from the Last Glacial Maximum to the end of the 21st century. *Geophysical Research Letters*, **44**(16), 8585-8591. DOI: 10.1002/2017GL074533
59. Sierra, J.P.; Genius, A.; Lionello, P.; Mestres, M.; Mössö, C.; Marzo, L.. (2017). Modelling the impact of climate change on harbour operability: The Barcelona port case study. *Ocean Engineering*, **141**, 64-78. DOI: 10.1016/j.oceaneng.2017.06.002
60. Lin-Ye, J.; García-León, M.; Gràcia, V.; Ortego, M.I.; Lionello, P.; Sánchez-Arcilla, A.. (2017). Multivariate statistical modelling of future marine storms. *Applied Ocean Research*, **65**, 192-205. DOI: 10.1016/j.apor.2017.04.009
61. Lionello, Piero; Conte, Dario; Marzo, Luigi; Scarascia, Luca. (2017). The contrasting effect of increasing mean sea level and decreasing storminess on the maximum water level during storms along the coast of the Mediterranean Sea in the mid 21st century. *Global and Planetary Change*, **151**, 80-91. DOI: 10.1016/j.gloplacha.2016.06.012

2016

62. Sánchez-Arcilla, Agustín; Sierra, Joan Pau; Brown, Sally; Casas-Prat, Mercè; Nicholls, Robert James; Lionello, Piero; Conte, Dario. (2016). A review of potential physical impacts on harbours in the Mediterranean Sea under climate change. *Regional Environmental Change*, **16**(8), 2471-2484. DOI: 10.1007/s10113-016-0972-9
63. Ruti, Paolo M.; Somot, S.; Giorgi, F.; Dubois, C.; Flaounas, E.; Obermann, A.; Dell'Aquila, A.; Pisacane, G.; Harzallah, A.; Lombardi, E.; Ahrens, B.; Akhtar, N.; Alias, A.; Arsouze, T.; Aznar, R.; Bastin, S.; Bartholy, J.; Béranger, K.; Beuvier, J.; Bouffies-Cloch , S.; Brauch, J.; Cabos, W.; Calmanti, S.; Calvet, J.-C.; Carillo, A.; Conte, D.; Coppola, E.; Djurdjevic, V.; Drobinski, P.; Elizalde-Arellano, A.; Gaertner, M.; Gal n, P.; Gallardo, C.; Gualdi, S.; Goncalves, M.; Jorba, O.; Jord , G.; L'Heveder, B.; Lebeaupin-Brossier, C.; Li, L.; Liguori, G.; Lionello, P.; Maci s, D.; Nabat, P.;  nol, B.; Raikovic, B.; Ramage, K.; Sevault, F.; Sannino, G.; Struglia, M.V.; Sanna, A.; Torma, C.; Vervatis, V.. (2016). Med-CORDEX initiative for Mediterranean climate studies. *Bulletin of the American Meteorological Society*, **97**(7), 1187-1208. DOI: 10.1175/BAMS-D-14-00176.1
64. Lionello, Piero; Trigo, Isabel F.; Gil, Victoria; Liberato, Margarida L.R.; Nissen, Katrin M.; Pinto, Joaquim G.; Raible, Christoph C.; Reale, Marco; Tanzarella, Annalisa; Trigo, Ricardo M.; Ulbrich, Sven; Ulbrich, Uwe. (2016). Objective climatology of cyclones in the Mediterranean region: A consensus view among methods with different system identification and tracking criteria. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **68**(1). DOI: 10.3402/tellusa.v68.29391
65. Mel, R.; Lionello, P.. (2016). Probabilistic Dressing of a Storm Surge Prediction in the Adriatic Sea. *Advances in Meteorology*, **2016**. DOI: 10.1155/2016/3764519

2015

66. Saadi, Sameh; Todorovic, Mladen; Tanasijevic, Lazar; Pereira, Luis S.; Pizzigalli, Claudia; Lionello, Piero. (2015). Climate change and Mediterranean agriculture: Impacts on winter wheat and tomato crop evapotranspiration, irrigation requirements and yield. *Agricultural Water Management*, **147**, 103-115. DOI: 10.1016/j.agwat.2014.05.008

2014

67. Zanchetta, G.; Bar-Matthews, M.; Drysdale, R.N.; Lionello, P.; Ayalon, A.; Hellstrom, J.C.; Isola, I.; Regattieri, E.. (2014). Coeval dry events in the central and eastern Mediterranean basin at 5.2 and 5.6ka recorded in Corchia (Italy) and Soreq caves (Israel) speleothems. *Global and Planetary Change*, **122**, 130-139. DOI: 10.1016/j.gloplacha.2014.07.013
68. Rivetti, Irene; Frascchetti, Simonetta; Lionello, Piero; Zambianchi, Enrico; Boero, Ferdino. (2014). Global warming and mass mortalities of benthic invertebrates in the Mediterranean Sea. *PLoS ONE*, **9**(12). DOI: 10.1371/journal.pone.0115655
69. Drobinski, P.; Ducrocq, V.; Alpert, P.; Anagnostou, E.; B ranger, K.; Borga, M.; Braud, I.; Chanzy, A.; Davolio, S.; Delrieu, G.; Estournel, C.; Filali Boubrahmi, N.; Font, J.; Grubi i , V.; Gualdi, S.; Homar, V.; Ivan an-Picek, B.; Kottmeier, C.; Kotroni, V.; Lagouvardos, K.; Lionello, P.; Llasat, M.C.; Ludwig, W.; Lutoff, C.; Mariotti, A.; Richard, E.; Romero, R.; Rotunno, R.; Roussot, O.; Ruin, I.; Somot, S.; Taupier-Letage, I.; Tintor, J.; Uijlenhoet, R.; Wernli, H.. (2014). HYMEX: A 10-year multidisciplinary program on the mediterranean water cycle. *Bulletin of the American Meteorological Society*, **95**(7), 1063-1082. DOI: 10.1175/BAMS-D-12-00242.1
70. Tanasijevic, Lazar; Todorovic, Mladen; Pereira, Luis S.; Pizzigalli, Claudia; Lionello, Piero. (2014). Impacts of climate change on olive crop evapotranspiration and irrigation requirements in the Mediterranean region. *Agricultural Water Management*, **144**, 54-68. DOI: 10.1016/j.agwat.2014.05.019
71. Borzelli, Gian Luca Eusebi; Malanotte-Rizzoli, Paola; Ga i , Miroslav; Lionello, Piero. (2014). Introduction to the mediterranean sea: Temporal variability and spatial patterns. *Geophysical Monograph Series*, **202**, 1-3.
72. Borzelli, Gian Luca Eusebi; Malanotte-Rizzoli, Paola; Ga i , Miroslav; Lionello, Piero. (2014). Introduction to The Mediterranean Sea: Temporal Variability and Spatial Patterns. *The Mediterranean Sea: Temporal Variability and Spatial Patterns*, **9781118847343**, 1-3. DOI: 10.1002/9781118847572.ch1
73. Borzelli, Gian Luca Eusebi; Gacic, Miroslav; Lionello, Piero; Malanotte-Rizzoli, Paola. (2014). Preface. *Geophysical Monograph Series*, **202**, xi.

74. Borzelli, Gian Luca Eusebi; Gačić, Miroslav; Lionello, Piero; Malanotte-Rizzoli, Paola. (2014). Preface. *The Mediterranean Sea: Temporal Variability and Spatial Patterns*, **9781118847343**, xi.
75. Garcia-Herrera, R.F.; Lionello, P.; Ulbrich, U.. (2014). Preface: Understanding dynamics and current developments of climate extremes in the Mediterranean region. *Natural Hazards and Earth System Sciences*, **14**(2), 309-316. DOI: 10.5194/nhess-14-309-2014
76. Lionello, P.; Congedi, L.; Reale, M.; Scarascia, L.; Tanzarella, A.. (2014). Sensitivity of typical Mediterranean crops to past and future evolution of seasonal temperature and precipitation in Apulia. *Regional Environmental Change*, **14**(5), 2025-2038. DOI: 10.1007/s10113-013-0482-y
77. Mel, Riccardo; Lionello, Piero. (2014). Storm surge ensemble prediction for the city of Venice. *Weather and Forecasting*, **29**(4), 1044-1057. DOI: 10.1175/WAF-D-13-00117.1
78. Lionello, Piero; Abrantes, Fatima; Gacic, Miroslav; Planton, Serge; Trigo, Ricardo; Ulbrich, Uwe. (2014). The climate of the Mediterranean region: research progress and climate change impacts. *Regional Environmental Change*, **14**(5), 1679-1684. DOI: 10.1007/s10113-014-0666-0
79. Borzelli, Gian Luca Eusebi; Gačić, Miroslav; Lionello, Piero; Malanotte-Rizzoli, Paola. (2014). The Mediterranean Sea: Temporal Variability and Spatial Patterns. *The Mediterranean Sea: Temporal Variability and Spatial Patterns*, **9781118847343**, 1-167. DOI: 10.1002/9781118847572
80. Mel, Riccardo; Lionello, Piero. (2014). Verification of an ensemble prediction system for storm surge forecast in the Adriatic Sea. *Ocean Dynamics*, **64**(12), 1803-1814. DOI: 10.1007/s10236-014-0782-x

2013

81. Ulbrich, Uwe; Leckebusch, Gregor C.; Grieger, Jens; Schuster, Mareike; Akperov, Mirseid; Bardin, Mikhail Yu.; Feng, Yang; Gulev, Sergey; Inatsu, Masaru; Keay, Kevin; Kew, Sarah F.; Liberato, Margarida L. R.; Lionello, Piero; Mokhov, Igor I.; Neu, Urs; Pinto, Joaquim G.; Raible, Christoph C.; Reale, Marco; Rudeva, Irina; Simmonds, Ian; Tilinina, Natalia D.; Trigo, Isabel F.; Ulbrich, Sven; Wang, Xiaolan L.; Wernli, Heini. (2013). Are Greenhouse Gas Signals of Northern Hemisphere winter extra-tropical cyclone activity dependent on the identification and tracking algorithm?. *Meteorologische Zeitschrift*, **22**(1), 61-68. DOI: 10.1127/0941-2948/2013/0420
82. Conte, D.; Lionello, P.. (2013). Characteristics of large positive and negative surges in the Mediterranean Sea and their attenuation in future climate scenarios. *Global and Planetary Change*, **111**, 159-173. DOI: 10.1016/j.gloplacha.2013.09.006
83. Hemming, Debbie; Agnew, Maureen D.; Goodess, Clare M.; Giannakopoulos, Christos; Salem, Skander Ben; Bindi, Marco; Bradai, Mohamed Nejmeddine; Congedi, Letizia; Dibari, Camilla; El-Askary, Hesham; El-Fadel, Mutasem; El-Raey, Mohamed; Ferrise, Roberto; Grünzweig, José M.; Harzallah, Ali; Hattour, Abdallah; Hatzaki, Maria; Kanas, Dina; Lionello, Piero; McCarthy, Mark; Aranda, César Mössö; Oweis, Theib; Sierra, Joan Pau; Psiloglou, Basil; Reale, Marco; Sánchez-Arcilla, Agustín; Senouci, Mohamed; Tanzarella, Annalisa. (2013). Climate Impact Assessments. *Advances in Global Change Research*, **52**, 61-104. DOI: 10.1007/978-94-007-5769-1_4
84. Sanna, A.; Lionello, P.; Gualdi, S.. (2013). Coupled atmosphere ocean climate model simulations in the Mediterranean region: Effect of a high-resolution marine model on cyclones and precipitation. *Natural Hazards and Earth System Sciences*, **13**(6), 1567-1577. DOI: 10.5194/nhess-13-1567-2013
85. Gualdi, Silvio; Somot, Samuel; May, Wilhelm; Castellari, Sergio; Déqué, Michel; Adani, Mario; Artale, Vincenzo; Bellucci, Alessio; Breitgand, Joseph S.; Carillo, Adriana; Cornes, Richard; Dell'Aquila, Alessandro; Dubois, Clotilde; Efthymiadis, Dimitrios; Elizalde, Alberto; Gimeno, Luis; Goodess, Clare M.; Harzallah, Ali; Krichak, Simon O.; Kuglitsch, Franz G.; Leckebusch, Gregor C.; L'Hévéder, Blandine; Li, Laurent; Lionello, Piero; Luterbacher, Jürg; Mariotti, Annarita; Navarra, Antonio; Nieto, Raquel; Nissen, Katrin M.; Oddo, Paolo; Ruti, Paolo; Sanna, Antonella; Sannino, Gianmaria; Scoccimarro, Enrico; Sevault, Florence; Struglia, Maria Vittoria; Toreti, Andrea; Ulbrich, Uwe; Xoplaki, Elena. (2013). Future Climate Projections. *Advances in Global Change Research*, **50**, 53-118. DOI: 10.1007/978-94-007-5781-3_3
86. Scarascia, Luca; Lionello, Piero. (2013). Global and regional factors contributing to the past and future sea level rise in the Northern Adriatic Sea. *Global and Planetary Change*, **106**, 51-63. DOI: 10.1016/j.gloplacha.2013.03.004

87. Mel, R.; Sterl, A.; Lionello, P.. (2013). High resolution climate projection of storm surge at the Venetian coast. *Natural Hazards and Earth System Science*, **13**(4), 1135-1142. DOI: 10.5194/nhess-13-1135-2013
88. Neu, Urs; Akperov, Mirseid G.; Bellenbaum, Nina; Benestad, Rasmus; Blender, Richard; Caballero, Rodrigo; Coccozza, Angela; Dacre, Helen F.; Feng, Yang; Fraedrich, Klaus; Grieger, Jens; Gulev, Sergey; Hanley, John; Hewson, Tim; Inatsu, Masaru; Keay, Kevin; Kew, Sarah F.; Kindem, Ina; Leckebusch, Gregor C.; Liberato, Margarida L.R.; Lionello, Piero; Mokhov, Igor I.; Pinto, Joaquim G.; Raible, Christoph C.; Reale, Marco; Rudeva, Irina; Schuster, Mareike; Simmonds, Ian; Sinclair, Mark; Sprenger, Michael; Tilinina, Natalia D.; Trigo, Isabel F.; Ulbrich, Sven; Ulbrich, Uwe; Wang, Xiaolan L.; Wernli, Heini. (2013). Imilast: A community effort to intercompare extratropical cyclone detection and tracking algorithms. *Bulletin of the American Meteorological Society*, **94**(4), 529-547. DOI: 10.1175/BAMS-D-11-00154.1
89. Goodess, Clare M.; Agnew, Maureen D.; Giannakopoulos, Christos; Hemming, Debbie; Salem, Skander Ben; Bindi, Marco; Bradai, Mohamed Nejmeddine; Congedi, Letizia; Dibari, Camilla; El-Askary, Hesham; El-Fadel, Mutasem; El-Raey, Mohamed; Ferrise, Roberto; Founda, Dimitra; Grünzweig, José M.; Harzallah, Ali; Hatzaki, Maria; Kay, Gillian; Lionello, Piero; Aranda, César Möso; Oweis, Theib; Sierra, Joan Pau; Psiloglou, Basil; Reale, Marco; Sánchez-Arcilla, Agustín; Senouci, Mohamed; Tanzarella, Annalisa; Varotsos, Konstantinos V.. (2013). Integration of the Climate Impact Assessments with Future Projections. *Advances in Global Change Research*, **52**, 105-162. DOI: 10.1007/978-94-007-5769-1_5
90. Agnew, Maureen D.; Goodess, Clare M.; Hemming, Debbie; Giannakopoulos, Christos; Salem, Skander Ben; Bindi, Marco; Bradai, Mohamed Nejmeddine; Congedi, Letizia; Dibari, Camilla; El-Askary, Hesham; El-Fadel, Mutasem; Ferrise, Roberto; Grünzweig, José M.; Harzallah, Ali; Hattour, Abdallah; Hatzaki, Maria; Kanas, Dina; Kostopoulou, Effie; Lionello, Piero; Oweis, Theib; Pino, Cosimo; Reale, Marco; Sánchez-Arcilla, Agustín; Senouci, Mohamed. (2013). Introduction. *Advances in Global Change Research*, **52**, 3-21. DOI: 10.1007/978-94-007-5769-1_1
91. Ulbrich, Uwe; Xoplaki, Elena; Dobricic, Srdjan; García-Herrera, Ricardo; Lionello, Piero; Adani, Mario; Baldi, Marina; Barriopedro, David; Coccimiglio, Paolo; Dalu, Giovanni; Efthymiadis, Dimitrios; Gaetani, Marco; Galati, Maria Barbara; Gimeno, Luis; Goodess, Clare M.; Jones, Phil D.; Kuglitsch, Franz G.; Leckebusch, Gregor C.; Luterbacher, Jürg; Marcos-Moreno, Marta; Mariotti, Annarita; Nieto, Raquel; Nissen, Katrin M.; Pettenuzzo, Daniele; Pinardi, Nadia; Pino, Cosimo; Shaw, Andrew G. P.; Sousa, Pedro; Toreti, Andrea; Trigo, Ricardo M.; Tsimplis, Mikis. (2013). Past and Current Climate Changes in the Mediterranean Region. *Advances in Global Change Research*, **50**, 9-51. DOI: 10.1007/978-94-007-5781-3_2
92. Agnew, Maureen D.; Goodess, Clare M.; Hemming, Debbie; Giannakopoulos, Christos; Salem, Skander Ben; Bindi, Marco; Bradai, Mohamed Nejmeddine; Dibari, Camilla; El-Askary, Hesham; El-Fadel, Mutasem; El-Raey, Mohamed; Ferrise, Roberto; Grünzweig, José M.; Harzallah, Ali; Hattour, Abdallah; Hatzaki, Maria; Kanas, Dina; Kostopoulou, Effie; Lionello, Piero; Oweis, Theib; Pino, Cosimo; Psiloglou, Basil; Abed, Salah Sahabi; Sánchez-Arcilla, Agustín; Senouci, Mohamed; Taleb, Mohamed Zoheir; Tanzarella, Annalisa. (2013). Physical and Socio-economic Indicators. *Advances in Global Change Research*, **52**, 39-60. DOI: 10.1007/978-94-007-5769-1_3
93. Agnew, Maureen D.; Goodess, Clare M.; Hemming, Debbie; Giannakopoulos, Christos; Bindi, Marco; Dibari, Camilla; El-Askary, Hesham; El-Hattab, Mamdouh; El-Raey, Mohamed; Ferrise, Roberto; Harzallah, Ali; Hatzaki, Maria; Kostopoulou, Effie; Lionello, Piero; Abed, Salah Sahabi; Sánchez-Arcilla, Agustín; Senouci, Mohamed; Sommer, Rolf; Taleb, Mohamed Zoheir; Tanzarella, Annalisa. (2013). Stakeholders. *Advances in Global Change Research*, **52**, 23-37. DOI: 10.1007/978-94-007-5769-1_2
94. Reale, M.; Lionello, P.. (2013). Synoptic climatology of winter intense precipitation events along the Mediterranean coasts. *Natural Hazards and Earth System Sciences*, **13**(7), 1707-1722. DOI: 10.5194/nhess-13-1707-2013
95. Goodess, Clare M.; Agnew, Maureen D.; Hemming, Debbie; Giannakopoulos, Christos; Bindi, Marco; Dibari, Camilla; El-Askary, Hesham; El-Fadel, Mutasem; El-Hattab, Mamdouh; El-Raey, Mohamed; Ferrise, Roberto; Grünzweig, José M.; Harzallah, Ali; Kanas, Dina; Lionello, Piero; Aranda, César Möso; Oweis, Theib; Sierra, Joan Pau; Reale, Marco; Sánchez-Arcilla, Agustín; Senouci, Mohamed; Sommer, Rolf; Tanzarella, Annalisa. (2013). Synthesis and the Assessment of Adaptation Measures. *Advances in Global Change Research*, **52**, 163-201. DOI: 10.1007/978-94-007-5769-1_6

2012

96. Schroeder, Katrin; García-Lafuente, Jesus; Josey, Simon A.; Artale, Vincenzo; Nardelli, Bruno Buongiorno; Carrillo, Adriana; Gačić, Miroslav; Gasparini, Gian Pietro; Herrmann, Marine; Lionello, Piero; Ludwig, Wolfgang; Millot, Claude; Özsoy, Emin; Pisacane, Giovanna; Sánchez-Garrido, Jose C.; Sannino, Gianmaria; Santoleri, Rosalia; Somot, Samuel; Struglia, Mariavittoria; Stanev, Emil; Taupier-Letage, Isabelle; Tsimplis, Michael N.; Vargas-Yáñez, Manuel; Zervakis, Vassilis; Zodiatis, George. (2012). Circulation of the mediterranean sea and its variability. *The Climate of the Mediterranean Region*, 187-256. DOI: 10.1016/B978-0-12-416042-2.00003-3
97. Ulbrich, Uwe; Lionello, Piero; Belušić, Danijel; Jacobeit, Jucundus; Knippertz, Peter; Kuglitsch, Franz G.; Leckebusch, Gregor C.; Luterbacher, Jürg; Maugeri, Maurizio; Maheras, Panagiotis; Nissen, Katrin M.; Pavan, Valentina; Pinto, Joaquim G.; Saaroni, Hadas; Seubert, Stefanie; Toreti, Andrea; Xoplaki, Elena; Ziv, Baruch. (2012). Climate of the mediterranean: Synoptic patterns, temperature, precipitation, winds, and their extremes. *The Climate of the Mediterranean Region*, 301-346. DOI: 10.1016/B978-0-12-416042-2.00005-7
98. Pizzigalli, Claudia; Palatella, Luigi; Zampieri, Matteo; Lionello, Piero; Miglietta, Mario M.; Paradisi, Paolo. (2012). Dynamical and statistical downscaling of precipitation and temperature in a Mediterranean area. *Italian Journal of Agronomy*, **7**(1), 3-12. DOI: 10.4081/ija.2012.e2
99. Lionello, P.; Galati, M.B.; Elvini, E.. (2012). Extreme storm surge and wind wave climate scenario simulations at the Venetian littoral. *Physics and Chemistry of the Earth*, **40-41**, 86-92. DOI: 10.1016/j.pce.2010.04.001
100. Lionello, Piero; Abrantes, Fatima; Congedi, Letizia; Dulac, Francois; Gačić, Miroslav; Gomis, Damià; Goodess, Clare; Hoff, Holger; Kutiel, Haim; Luterbacher, Jürg; Planton, Serge; Reale, Marco; Schröder, Katrin; Vittoria Struglia, Maria; Toreti, Andrea; Tsimplis, Michael; Ulbrich, Uwe; Xoplaki, Elena. (2012). Introduction: Mediterranean Climate-Background Information. *The Climate of the Mediterranean Region: From the Past to the Future*, xxxv-xc. DOI: 10.1016/B978-0-12-416042-2.00012-4
101. Li, Laurent; Casado, Alberto; Congedi, Letizia; Dell'Aquila, Alessandro; Dubois, Clotilde; Elizalde, Alberto; L' Hévéder, Blandine; Lionello, Piero; Sevault, Florence; Somot, Samuel; Ruti, Paolo; Zampieri, Matteo. (2012). Modeling of the Mediterranean Climate System. *The Climate of the Mediterranean Region: From the Past to the Future*, 419-448. DOI: 10.1016/B978-0-12-416042-2.00007-0
102. Li, Laurent; Casado, Alberto; Congedi, Letizia; Dell'Aquila, Alessandro; Dubois, Clotilde; Elizalde, Alberto; L' Hévéder, Blandine; Lionello, Piero; Sevault, Florence; Somot, Samuel; Ruti, Paolo; Zampieri, Matteo. (2012). Modeling of the mediterranean climate system. *The Climate of the Mediterranean Region*, 419-448. DOI: 10.1016/B978-0-12-416042-2.00007-0
103. Lionello, Piero; Gacic, Miroslav; Gomis, Dami; Garcia-Herrera, Ricardo; Giorgi, Filippo; Planton, Serge; Trigo, R.; Theocharis, A.; Tsimplis, Michael N.; Ulbrich, Uwe; Xoplaki, E.. (2012). Program focuses on climate of the Mediterranean region. *Eos*, **93**(10), 105-106. DOI: 10.1029/2012EO100001
104. Zampieri, M.; Giorgi, F.; Lionello, P.; Nikulin, G.. (2012). Regional climate change in the Northern Adriatic. *Physics and Chemistry of the Earth*, **40-41**, 32-46. DOI: 10.1016/j.pce.2010.02.003
105. Lionello, P.; Cavaleri, L.; Nissen, K.M.; Pino, C.; Raicich, F.; Ulbrich, U.. (2012). Severe marine storms in the Northern Adriatic: Characteristics and trends. *Physics and Chemistry of the Earth*, **40-41**, 93-105. DOI: 10.1016/j.pce.2010.10.002
106. Lionello, P.. (2012). The Climate of the Mediterranean Region. *The Climate of the Mediterranean Region*. DOI: 10.1016/C2011-0-06210-5
107. Planton, Serge; Lionello, Piero; Artale, Vincenzo; Aznar, Rolland; Carrillo, Adriana; Colin, Jeanne; Congedi, Letizia; Dubois, Clotilde; Elizalde, Alberto; Gualdi, Silvio; Hertig, Elke; Jacobeit, Jucundus; Jordà, Gabriel; Li, Laurent; Mariotti, Annarita; Piani, Claudio; Ruti, Paolo; Sanchez-Gomez, Emilia; Sannino, Gianmaria; Sevault, Florence; Somot, Samuel; Tsimplis, Michael. (2012). The climate of the mediterranean region in future climate projections. *The Climate of the Mediterranean Region*, 449-502. DOI: 10.1016/B978-0-12-416042-2.00008-2
108. Lionello, Piero. (2012). The Climate of the Mediterranean Region: From the Past to the Future. *The Climate of the Mediterranean Region: From the Past to the Future*, 1-502.
109. Lionello, P.. (2012). The climate of the Venetian and North Adriatic region: Variability, trends and future change. *Physics and Chemistry of the Earth*, **40-41**, 1-8. DOI: 10.1016/j.pce.2012.02.002

2011

110. Zampieri, M.; Lionello, P.. (2011). Anthropogenic land use causes summer cooling in central Europe. *Climate Research*, **46**(3), 255-268. DOI: 10.3354/cr00981

2010

111. Barriopedro, David; García-Herrera, Ricardo; Lionello, Piero; Pino, Cosimo. (2010). A discussion of the links between solar variability and high-storm-surge events in Venice. *Journal of Geophysical Research Atmospheres*, **115**(13). DOI: 10.1029/2009JD013114
112. Palatella, L.; Miglietta, M.M.; Paradisi, P.; Lionello, P.. (2010). Climate change assessment for Mediterranean agricultural areas by statistical downscaling. *Natural Hazards and Earth System Science*, **10**(7), 1647-1661. DOI: 10.5194/nhess-10-1647-2010
113. Lionello, Piero; Llasat, Maria Carmen. (2010). Promoting a precipitation database for the mediterranean region. *Eos*, **91**(8), 76. DOI: 10.1029/2010EO080005
114. Zampieri, M.; Lionello, P.. (2010). Simple statistical approach for computing land cover types and potential natural vegetation. *Climate Research*, **41**(3), 205-220. DOI: 10.3354/cr00846
115. Martucci, G.; Carniel, S.; Chiggiato, J.; Sclavo, M.; Lionello, P.; Galati, M.B.. (2010). Statistical trend analysis and extreme distribution of significant wave height from 1958 to 1999 - An application to the Italian Seas. *Ocean Science*, **6**(2), 525-538. DOI: 10.5194/os-6-525-2010
116. Drobinski, Philippe; Ducrocq, Véronique; Lionello, Piero. (2010). Studying the hydrological cycle in the Mediterranean. *Eos*, **91**(41), 373. DOI: 10.1029/2010EO410006

2009

117. Huth, Radan; Benestad, Rasmus; Lionello, Piero. (2009). Editorial. *Theoretical and Applied Climatology*, **96**(1-2), 1-2. DOI: 10.1007/s00704-008-0077-6

2008

118. Giorgi, Filippo; Lionello, Piero. (2008). Climate change projections for the Mediterranean region. *Global and Planetary Change*, **63**(2-3), 90-104. DOI: 10.1016/j.gloplacha.2007.09.005
119. Lionello, Piero; Boldrin, U.; Giorgi, F.. (2008). Future changes in cyclone climatology over Europe as inferred from a regional climate simulation. *Climate Dynamics*, **30**(6), 657-671. DOI: 10.1007/s00382-007-0315-0
120. Lionello, P.; Galati, M.B.. (2008). Links of the significant wave height distribution in the Mediterranean sea with the Northern Hemisphere teleconnection patterns. *Advances in Geosciences*, **17**, 13-18. DOI: 10.5194/adgeo-17-13-2008
121. Lionello, P.; Planton, S.; Rodo, X.. (2008). Preface: Trends and climate change in the Mediterranean region. *Global and Planetary Change*, **63**(2-3), 87-89. DOI: 10.1016/j.gloplacha.2008.06.004
122. Lionello, P.; Cogo, S.; Galati, M.B.; Sanna, A.. (2008). The Mediterranean surface wave climate inferred from future scenario simulations. *Global and Planetary Change*, **63**(2-3), 152-162. DOI: 10.1016/j.gloplacha.2008.03.004

2007

123. Garcia-Herrera, Ricardo; Luterbacher, Jürg; Lionello, Piero; González-Rouco, Fidel; Ribera, Pedro; Rodo, Xavier; Kull, Christoph; Zerefos, Christos. (2007). Reconstruction of past Mediterranean climate. *Eos*, **88**(9), 111. DOI: 10.1029/2007EO090010
124. Lionello, P.; Giorgi, F.. (2007). Winter precipitation and cyclones in the Mediterranean region: Future climate scenarios in a regional simulation. *Advances in Geosciences*, **12**, 153-158. DOI: 10.5194/adgeo-12-153-2007

2006

125. Lionello, P.; Sanna, A.; Elvini, E.; Mufato, R.. (2006). A data assimilation procedure for operational prediction of storm surge in the northern Adriatic Sea. *Continental Shelf Research*, **26**(4), 539-553. DOI: 10.1016/j.csr.2006.01.003
126. Luterbacher, Jürg; Xoplaki, Elena; Casty, Carlo; Wanner, Heinz; Pauling, Andreas; Küttel, Marcel; Rutishauser, This; Brönnimann, Stefan; Fischer, Erich; Fleitmann, Dominik; Gonzalez-Rouco, Fidel J.; García-Herrera, Ricardo; Barriendos, Mariano; Rodrigo, Fernando; Gonzalez-Hidalgo, Jose Carlos; Saz, Miguel Angel; Gimeno, Luis; Ribera, Pedro; Brunet, Manola; Paeth, Heiko; Rimbu, Norel; Felis, Thomas; Jacobeit, Jucundus; Dünkeloh, Armin; Zorita, Eduardo; Guiot, Joel; Türkeş, Murat; Alcoforado, Maria Joao; Trigo, Ricardo; Wheeler, Dennis; Tett, Simon; Mann, Michael E.; Touchan, Ramzi; Shindell, Drew T.; Silenzi, Sergio; Montagna, Paolo; Camuffo, Dario; Mariotti, Annarita; Nanni, Teresa; Brunetti, Michele; Maugeri, Maurizio; Zerefos, Christos; Zolt, Simona De; Lionello, Piero; Nunes, M. Fatima; Rath, Volker; Beltrami, Hugo; Garnier, Emmanuel; Ladurie, Emmanuel Ley Roy. (2006). Chapter 1 Mediterranean climate variability over the last centuries: A review. *Developments in Earth and Environmental Sciences*, **4**(C), 27-148. DOI: 10.1016/S1571-9197(06)80004-2
127. Tsimplis, Michael N.; Zervakis, Vassilis; Josey, Simon A.; Peneva, Elissaveta L.; Struglia, Maria Vittoria; Stanev, Emil V.; Theoharis, Alex; Lionello, Piero; Malanotte-Rizzoli, Paola; Artale, Vincenzo; Tragou, Elina; Oguz, Temel. (2006). Chapter 4 Changes in the oceanography of the Mediterranean Sea and their link to climate variability. *Developments in Earth and Environmental Sciences*, **4**(C), 227-282. DOI: 10.1016/S1571-9197(06)80007-8
128. Lionello, P.; Bhend, J.; Buzzi, A.; Della-Marta, P.M.; Krichak, S.O.; Jansà, A.; Maheras, P.; Sanna, A.; Trigo, I.F.; Trigo, R.. (2006). Chapter 6 Cyclones in the Mediterranean region: Climatology and effects on the environment. *Developments in Earth and Environmental Sciences*, **4**(C), 325-372. DOI: 10.1016/S1571-9197(06)80009-1
129. Ulbrich, U.; May, W.; Li, L.; Lionello, P.; Pinto, J.G.; Somot, S.. (2006). Chapter 8 The Mediterranean climate change under global warming. *Developments in Earth and Environmental Sciences*, **4**(C), 399-415. DOI: 10.1016/S1571-9197(06)80011-X
130. Lionello, P.; Malanotte-Rizzoli, P.; Boscolo, R.. (2006). Preface. *Developments in Earth and Environmental Sciences*, **4**(C), xiii-xv. DOI: 10.1016/S1571-9197(06)80002-9
131. De Zolt, S.; Lionello, P.; Nuhu, A.; Tomasin, A.. (2006). The disastrous storm of 4 November 1966 on Italy. *Natural Hazards and Earth System Science*, **6**(5), 861-879. DOI: 10.5194/nhess-6-861-2006
132. De Zolt, S.; Lionello, P.; Malguzzi, P.; Nuhu, A.; Tomasin, A.. (2006). The effect of the boundary conditions on the simulation of the 4 November 1966 storm over Italy. *Advances in Geosciences*, **7**, 199-204. DOI: 10.5194/adge-7-199-2006
133. Lionello, P.; Malanotte-Rizzoli, P.; Boscolo, R.; Alpert, P.; Artale, V.; Li, L.; Luterbacher, J.; May, W.; Trigo, R.; Tsimplis, M.; Ulbrich, U.; Xoplaki, E.. (2006). The Mediterranean climate: An overview of the main characteristics and issues. *Developments in Earth and Environmental Sciences*, **4**(C), 1-26. DOI: 10.1016/S1571-9197(06)80003-0

2005

134. Lionello, P.; Sanna, A.. (2005). Mediterranean wave climate variability and its links with NAO and Indian Monsoon. *Climate Dynamics*, **25**(6), 611-623. DOI: 10.1007/s00382-005-0025-4
135. Lionello, Piero; Mufato, R.; Tomasin, A.. (2005). Sensitivity of free and forced oscillations of the Adriatic Sea to sea level rise. *Climate Research*, **29**(1), 23-39. DOI: 10.3354/cr029023

2003

136. Lionello, P.; Nizzero, A.; Elvini, E.. (2003). A procedure for estimating wind waves and storm-surge climate scenarios in a regional basin: The Adriatic Sea case. *Climate Research*, **23**(3), 217-231. DOI: 10.3354/cr023217
137. Lionello, P.; Martucci, G.; Zampieri, M.. (2003). Implementation of a coupled atmosphere-wave-ocean model in the Mediterranean Sea: Sensitivity of the short time scale evolution to the air-sea coupling mechanisms. *Global Atmosphere and Ocean System*, **9**(1-2), 65-95. DOI: 10.1080/1023673031000151421

2002

138. Bignami, Francesco; Marullo, Salvatore; Lionello, Piero; Bozzano, Roberto. (2002). Comparison of SSM/I-derived meteorological surface fields to ship/buoy observations and model results in the Mediterranean Sea. *Proceedings of SPIE-The International Society for Optical Engineering*, **4544**, 123-134. DOI: 10.1117/12.452750
139. Lionello, P.; Dalan, F.; Elvini, E.. (2002). Cyclones in the Mediterranean region: The present and the doubled CO2 climate scenarios. *Climate Research*, **22**(2), 147-159. DOI: 10.3354/cr022147

2001

140. Lionello, P.; Pedlosky, J.. (2001). On the effect of a surface density front on the interior structure of the ventilated ocean thermocline. *Fluid Mechanics and its Applications*, **61**, 183-189. DOI: 10.1007/978-94-010-0792-4_23
141. Lionello, P.; Pedlosky, J.. (2001). The relation between the potential vorticity and the Montgomery function in the ventilated ocean thermocline. *Journal of Physical Oceanography*, **31**(1), 212-225. DOI: 10.1175/1520-0485(2001)031<0212:TRBTPV>2.0.CO;2

2000

142. Lionello, P.; Pedlosky, J.. (2000). The role of a finite density jump at the bottom of the quasi-continuous ventilated thermocline. *Journal of Physical Oceanography*, **30**(2), 338-351. DOI: 10.1175/1520-0485(2000)030<0338:TROAFD>2.0.CO;2

1998

143. Lionello, Piero; Malguzzi, P.; Buzzi, A.. (1998). Coupling between the atmospheric circulation and the ocean wave field: An idealized case. *Journal of Physical Oceanography*, **28**(2), 161-177. DOI: 10.1175/1520-0485(1998)028<0161:CBTACA>2.0.CO;2
144. Lionello, P.; Zampato, L.; Malguzzi, P.; Tomasin, A.; Bergamasco, A.. (1998). On the correct surface stress for the prediction of the wind wave field and the storm surge in the Northern Adriatic Sea. *Nuovo Cimento della Societa Italiana di Fisica C*, **21**(5), 515-532.

1997

145. Hasselmann, S.; Lionello, P.; Hasselmann, K.. (1997). An optimal interpolation scheme for the assimilation of spectral wave data. *Journal of Geophysical Research: Oceans*, **102**(C7), 15823-15836. DOI: 10.1029/96JC03453
146. Bauer, E.; Hasselmann, S.; Lionello, P.; Hasselmann, K.. (1997). Comparison of assimilation results from an optimal interpolation and the Green's function method using ERS-1 SAR wave mode spectra. *European Space Agency, (Special Publication) ESA SP(414 PART 3)*, 1131-1136.

1995

147. Lionello, P.; Günther, H.; Hansen, B.. (1995). A sequential assimilation scheme applied to global wave analysis and prediction. *Journal of Marine Systems*, **6**(1-2), 87-107. DOI: 10.1016/0924-7963(94)00010-9
148. Lionello, P.. (1995). Oceanographic prediction for the Venetian littoral. *Il Nuovo Cimento C*, **18**(3), 245-268. DOI: 10.1007/BF02508556

1991

149. Cavaleri, L.; Bertotti, L.; Canestrelli, P.; Lionello, P.. (1991). Extreme storms in the Adriatic Sea. *Proceedings of the Coastal Engineering Conference*, **1**, 218-226. DOI: 10.1061/9780872627765.018

1990

150. Cavaleri, Luigi; Lionello, Piero. (1990). Linear and nonlinear approaches to bottom friction in wave motion: A critical intercomparison. *Estuarine, Coastal and Shelf Science*, **30**(4), 355-367. DOI: 10.1016/0272-7714(90)90003-A
151. Janssen, P.A.E.M.; Lionello, P.; Zambresky, L.. (1990). On the interaction of wind and waves. *The dynamics of the coupled atmosphere and ocean. Proc. Royal Society meeting, 1988*, 135-147.

1989

152. Janssen, P.A.E.M.; Lionello, P.; Reistad, M.; Hollingsworth, A.. (1989). Hindcasts and data assimilation studies with the WAM model during the Seasat period. *Journal of Geophysical Research*, **94**(C1), 973-993. DOI: 10.1029/JC094iC01p00973
153. Cavaleri, Luid; Bertotti, Luciana; Lionello, Piero. (1989). Shallow water application of the third-generation WAM wave model. *Journal of Geophysical Research: Oceans*, **94**(6), 8111-8124.
154. Cavaleri, Luigi; Bertotti, Luciana; Lionello, Piero. (1989). Wind waves evaluation in the Adriatic and Mediterranean seas. *International Journal for Numerical Methods in Engineering*, **27**(1), 57-69. DOI: 10.1002/nme.1620270106

1988

155. Cavaleri, L.; Bertotti, L.; Lionello, P.; Zecchetto, S.. (1988). Local effects in wind and wave fields in the Tyrrhenian sea. *Il Nuovo Cimento C*, **11**(5-6), 693-702. DOI: 10.1007/BF02507011
156. Dr. Hasselmann, Klaus; Hasselmann, S.; Bauer, E.; Janssen, P.A.E.M.; Komen, G.J.; Bertotti, L.; Lionello, P.; Guillaume, A.; Cardone, V.C.; Greenwood, J.A.; Reistad, M.; Zambresky, L.; Ewing, J.A.. (1988). The WAM model - a third generation ocean wave prediction model. *J. PHYS. OCEANOGR.*, **18**(12 , Dec. 1988), 1775-1810. DOI: 10.1175/1520-0485(1988)018<1775:twmtgo>2.0.co;2
157. Cavaleri, L.; Curiotto, S.; Lionello, P.. (1988). Thermal expansion of a rig. *Il Nuovo Cimento C*, **11**(1), 126. DOI: 10.1007/BF02507901
158. Cavaleri, Luigi; Bertotti, Luciana; de Luis, Jose E.; Lionello, Piero. (1988). WAMS model applied to the Mediterranean Sea. pp. 566-577.

Undated

- 159.
- 160.