

Artículos del personal de AEMET en revistas científicas - 2022 (act. 12/09/2023)

AUTOR	TÍTULO	PUBLICACIÓN
González-Alemán, Juan Jesús; Grams, Christian M.; Ayarzagüena, Blanca; Zurita Gotor, Pablo; Domeisen, Daniela I. V.; Gómara, Íñigo; Rodríguez Fonseca, Belén; Vitart, Frédéric	Tropospheric Role in the Predictability of the Surface Impact of the 2018 Sudden Stratospheric Warming Event	Geophysical Research Letters. 2022, 49(1), e2021GL095464 DOI: 10.1029/2021GL095464
Calvo Sancho, Carlos; Díaz Fernández, Javier; Martín, Yago; Bolgiani, Pedro; Sastre, Mariano; González-Alemán, Juan Jesús; Santos Muñoz, Daniel; Farrán Martín, José Ignacio; Martín, María Luisa	Supercell Convective Environments in Spain based on ERA5: Hail and Non-Hail Differences	Weather and Climate Dynamics. 2022, 3(3), 1021-1036 DOI: 10.5194/wcd-2022-27
Vicente Serrano, Sergio Martín; Maillard, Oswaldo; Peña Angulo, Dhais; Domínguez Castro, Fernando; Noguera, Iván; Lorenzo-Lacruz, Jorge; Azorín Molina, César; Juez, Carmelo; Guijarro Pastor, José Antonio; Halifa Marín, Amar; El-Kenawy, Ahmed	Evaluation of long-term changes in precipitation over Bolivia based on observations and Coupled Model Intercomparison Project models	International Journal of Climatology. 2022 DOI: 10.1002/joc.7924
Álvarez Fanjul, Enrique; Pérez Gómez, Begoña; Alfonso Alonso-Muñoyerro, Marta de; Lorente Jiménez, Pablo; García Sotillo, Marcos; Lin-Ye, Juen; Aznar Lecocq, Roland; Ruiz Gil de la Serna, María; Pérez-Rubio, Susana; Clementi, Emanuela; Coppini, Giovanni; García León, Manuel;	Western mediterranean recordbreaking storm Gloria: an integrated assessment based on models and observations	En: Copernicus Ocean State Report, Issue 6. Journal of Operational Oceanography. Volumen15:sup1, s159-s167 DOI: 10.1080/1755876X.2022.2095169

Fernandes, María; García-Valdecasas, José María; García Valdecasas, Javier; Santos Muñoz, Daniel; Luna Rico, Yolanda; Mestres, Marc; Molina, Raphael; Tintoré, Joaquin; Mourre, Baptiste; Masina, Simona; Mosso, César; Reyes, Emma; Santana, Alex

Contreras Osorio, Sebastián; Martín Pérez, Daniel; Ivarsson, Karl-Ivan; Nielsen, Kristian Pagh; Rooy, Wim de; Gleeson, Emily; McAufield, Ewa

Tu, Qiansi; Hase, Frank; Schneider, Matthias; García Rodríguez, Omaira Elena; Blumenstock, Thomas; Borsdorff, Tobias; Frey, Matthias; Khosrawi, Farahnaz; Lorente, Alba; Alberti, Carlos; Bustos Seguela, Juan José de; Butz, André; Carreño Corbella, Virgilio; Cuevas Agulló, Emilio; Curcoll, Roger; Diekmann, Christopher; Dubravica, Darko; Ertl, Benjamin; Estruch, Carme; León-Luis, Sergio Fabián; Marrero, Carlos; Morguí, Josep Anton; Ramos López, Ramón; Scharun, Christian; Schneider, Carsten; Sepúlveda Hernández, Eliezer; Toledano, Carlos; Torres, Carlos

Sánchez García, Eroteida; Rodríguez Camino, Ernesto; Bacciu, Valentina; Chiarle, Marta; Costa Saura, Jose Maria; Garrido del Pozo, Nieves; Lledó, Llorenç;

[Impact of the Microphysics in HARMONIE-AROME on Fog](#)

[Quantification of CH₄ emissions from waste disposal sites near the city of Madrid using ground- and space-based observations of COCCON, TROPOMI and IASI](#)

[Co-design of sectoral climate services based on seasonal prediction information in the Mediterranean](#)

Atmosphere. 2022, 13(12), 2127

DOI: [10.3390/atmos13122127](https://doi.org/10.3390/atmos13122127)

Atmospheric Chemistry and Physics. 2022, 22, p. 295-317

DOI: [10.5194/acp-22-295-2022](https://doi.org/10.5194/acp-22-295-2022)

Climate Services. 2022, 28, 100337

DOI: [10.1016/j.cliser.2022.100337](https://doi.org/10.1016/j.cliser.2022.100337)

<p>Navascués, Beatriz; Paranunzio, Roberta; Terzago, Silvia ... etc.</p>		
<p>Calbet, Xavier; Carbajal-Henken, Cintia; DeSouza-Machado, Sergio; Sun, Bomin; Reale, Anthony</p>	<p>Horizontal small-scale variability of water vapor in the atmosphere: implications for intercomparison of data from different measuring systems</p>	<p>Atmospheric Measurement Techniques. 2022, 15, 7105-7118 DOI: 10.5194/amt-15-7105-2022</p>
<p>Bedoya Valestt, Shalenys; Azorín Molina, César; Gimeno, Luis; Guijarro Pastor, José Antonio; Sánchez Morcillo, Víctor José; Aguilar, Enric; Brunet, Manola</p>	<p>Opposite trends of sea-breeze speeds and gusts in Eastern Spain, 1961-2019</p>	<p>Climate Dynamics. 2022 DOI: 10.1007/s00382-022-06473-0</p>
<p>García Rodríguez, Omaira Elena; Sanromá, Esther; Hase, Frank; Schneider, Matthias; León-Luis, Sergio Fabián; Blumenstock, Thomas; Sepúlveda Hernández, Eliezer; Torres, Carlos; Prats Porta, Natalia; Redondas, Alberto; Carreño Corbella, Virgilio</p>	<p>Impact of instrumental line shape characterization on ozone monitoring by FTIR spectrometry</p>	<p>Atmospheric Measurement Techniques. 2022, 15, 4547-4567 DOI: 10.5194/amt-15-4547-2022</p>
<p>Tamayo, Jorge; Rodríguez Camino, Ernesto; Hernanz Lázaro, Alfonso; Covalada, Sara</p>	<p>Downscaled climate change scenarios for Central America</p>	<p>Advances in Science and Research. 2022, 19, 105-115 DOI: 10.5194/asr-19-105-2022</p>
<p>Perčec Tadić, Melita; Pasarić, Zoran; Guijarro Pastor, José Antonio</p>	<p>Croatian high-resolution monthly gridded dataset of homogenised surface air temperature</p>	<p>Theoretical and Applied Climatology. 2022 DOI: 10.1007/s00704-022-04241-y</p>

<p>Buisán Sanz, Samuel Tomás; Serrano Notivoli, Roberto; Kochendorfer, John; Bello Millán, Francisco Javier</p>	<p>Adjustment of solid precipitation during the Filomena extreme snowfall event in Spain: from observations to “true precipitation”</p>	<p>Bulletin of the American Meteorological Society. 2022, 103(11), p. E2570-E2578 DOI: 10.1175/BAMS-D-22-0012.1</p>
<p>Bedoya Velásquez, Andrés Esteban; Hoyos Restrepo, Manuela; Barreto Velasco, África; García Cabrera, Rosa Delia; Romero Campos, Pedro Miguel; García Rodríguez, Omaira Elena; Ramos López, Ramón; Roininen, Reijo; Toledano, Carlos; Sicard, Michaël; Ceolato, Romain</p>	<p>Estimation of the Mass Concentration of Volcanic Ash Using Ceilometers: Study of Fresh and Transported Plumes from La Palma Volcano</p>	<p>Remote Sensing. 2022, 14(22), 5680 DOI: 10.3390/rs14225680</p>
<p>Báez, José C.; Pennino, María Grazía; Czerwinski, Ivone A.; Coll, Marta; Bellido, José M.; Sánchez-Laulhé, José María; García, Alberto; Giráldez, Ana; García Soto, Carlos</p>	<p>Long term oscillations of Mediterranean sardine and anchovy explained by the combined effect of multiple regional and global climatic indices</p>	<p>Regional Studies in Marine Science. 2022, 56, 102709 DOI: 10.1016/j.rsma.2022.102709</p>
<p>Navas-Martín, Miguel Ángel; López Bueno, José Antonio; Ascaso Sánchez, M. S.; Sarmiento Suárez, Rodrigo; Follos Pliego, Fernando; Vellón Graña, José Manuel; Mirón Pérez, Isidro J.; Luna Rico, Yolanda; Sánchez Martínez, Gerardo; Culqui Lévano, Dante R.; Linares, Cristina; Díaz, D.</p>	<p>Gender differences in adaptation to heat in Spain (1983-2018)</p>	<p>Environmental Research. 2022, 215(Part 1), 113986 DOI: 10.1016/j.envres.2022.113986</p>
<p>Schneider, Matthias; Ertl, Benjamin; Tu, Qiansi; Diekmann, Christopher; Khosrawi, Farahnaz; Röhling, Amelie N.; Hase, Frank; Dubravica, Darko; García Rodríguez, Omaira Elena; Sepúlveda Hernández,</p>	<p>Synergetic use of IASI profile and TROPOMI total-column level 2 methane retrieval products</p>	<p>Atmospheric Measurement Techniques. 2022, 15(14), 4339-4371 DOI: 10.5194/amt-15-4339-2022</p>

<p>Eliezer; Borsdorff, Tobias; Landgraf, Jochen; Lorente, Alba; Butz, André; Chen, Huilin; Kivi, Rigel; Laemmel, Thomas; Ramonet, Michel; Crevoisier, Cyril; Pernin, Jérôme; Steinbacher, Martin; Meinhardt, Frank; Strong, Kimberly; Wunch, Debra; Warneke, Thorsten; Roehl, Coleen M.; Wennberg, Paul O.; Morino, Isamu; Iraci, Laura; Shiomi, Kei; Deutscher, Nicholas Michael; Griffith, David W. T.; Velazco, Voltaire A.; Pollard, David F.</p>		
<p>Amaré, J.; Bandac, I.; Blancas, A.; Borjabad, S.; Buisán Sanz, Samuel Tomás; Cebrián, S.; Cintas, D.; Coarasa, I.; García, E.; Martínez, M.; Núñez Lagos, R.; Oliván, M. A.; Ortigoza, Y.; Ortiz de Solórzano, A.; Pérez, C.; Puimedón, J.; Rodríguez, S.; Salinas, A.; Sarsa, M. L.; Villar, P.</p>	<p>Long term measurement of the ²²²Rn concentration in the Canfranc Underground Laboratory</p>	<p>The European Physical Journal C. 2022, 82, 891 DOI: 10.1140/epjc/s10052-022-10859-z</p>
<p>López Bueno, José Antonio; Navas-Martín, Miguel Ángel; Díaz, Julio; Mirón Pérez, Isidro J.; Luna Rico, Yolanda; Sánchez Martínez, Gerardo; Culqui Lévano, Dante R.; Linares, Cristina</p>	<p>Population vulnerability to extreme cold days in rural and urban municipalities in ten provinces in Spain</p>	<p>Science of the Total Environment. 2022, 852, 158165 DOI: 10.1016/j.scitotenv.2022.158165</p>
<p>Barreto Velasco, África; García Cabrera, Rosa Delia; Guirado-Fuentes, Carmen; Cuevas Agulló, Emilio; Almansa Rodríguez, Antonio Fernando; Milford, Celia; Toledano, Carlos; Expósito, Francisco J.;</p>	<p>Aerosol characterisation in the subtropical eastern North Atlantic region using long-term AERONET measurements</p>	<p>Atmospheric Chemistry and Physics. 2022, 22, p. 11105-11124 DOI: 10.5194/acp-22-11105-2022</p>

<p>Díaz González, Juan Pedro; León-Luis, Sergio Fabian</p>		
<p>Monteiro, Alexandra; Basart, Sara; Kazadzis, Stelios; Votzis, Athanasios; Gkikas, Antonis; Vandenbussche, Sophie; Tobías, Aurelio; Gama, Carla; Pérez García-Pando, Carlos; Terradellas, Enric; Notas, George; Middleton, Nick; Kushta, Jonilda; Amiridis, Vassilis; Lagouvardos, Kostas; Kosmopoulos, Panagiotis G.; Kotroni, Vassiliki; Kanakidou, Maria; Mihalopoulos, Nikos; Kalivitis, Nikos; Dagsson-Waldhauserová, Pavla; El-Askary, Hesham; Sievers, Klaus; Giannaros, Theodore M.; Mona, Lucia; Hirtl, Marcus; Skomorowski, Paul; Virtanen, Timo H.; Christoudias, Theodoros; Di Mauro, Biagio; Trippetta, Serena; Kutuzov, Stanislav; Meinander, Outi; Nickovic, Slodoban</p>	<p>Multi-sectoral impact assessment of an extreme African dust episode in the Eastern Mediterranean in March 2018</p>	<p>Science of the Total Environment. 2022, 843(15), 156861 DOI: 10.1016/j.scitotenv.2022.156861</p>
<p>Calvo Sancho, Carlos; González-Alemán, Juan Jesús; Bolgiani, Pedro; Santos Muñoz, Daniel; Farrán Martín, José Ignacio; Martín, M. L.</p>	<p>An environmental synoptic analysis of tropical transitions in the central and Eastern North Atlantic</p>	<p>Atmospheric Research. 2022, 278, 106353 DOI: 10.1016/j.atmosres.2022.106353</p>
<p>López-Bueno, J.A.; Díaz, J.; Navas, M.A.; Mirón, I.J.; Follos, F.; Vellón, J.M.; Ascaso, M.S.; Luna, M.Y.; Martínez, G.S.; Linares, C.</p>	<p>Temporal evolution of threshold temperatures for extremely cold days in Spain</p>	<p>Science of The Total Environment. 2022, 844, 157183 DOI: 10.1016/j.scitotenv.2022.157183</p>

<p>Zhou, Feifei; Zhao, Zheng; Azorín-Molina, César; Jia, Xin; Zhang, Gangfeng; Chen, Deliang; Liu, Jane; Guijarro, Jose A.; Zhang, Fen; Fang, Keyan</p>	<p>Teleconnections between large-scale oceanic-atmospheric patterns and interannual surface wind speed variability across China: Regional and seasonal patterns</p>	<p>Science of The Total Environment. 2022, 838(Part 1), 156023 DOI: 10.1016/j.scitotenv.2022.156023</p>
<p>Pérez Zanón, Nùria; Caron, Louis-Philippe; Terzago, Silvia; Schaeybroeck, Bert Van; Lledó, Llorenç; Manubens, Nicolau; Roulin, Emmanuel; Álvarez-Castro, Carmen; Batté, Lauriane; Bretonnière, Pierre-Antoine; Corti, Susanna; Delgado Torres, Carlos; Domínguez Alonso, Marta; Fabiano, Federico; Giuntoli, Ignazio; Hardenberg, Jost von; Sánchez García, Eroteida; Torralba, Verónica; Verfaillie, Deborah</p>	<p>Climate Services Toolbox (CSTools) v4.0: from climate forecasts to climate forecast information</p>	<p>Geoscientific Model Development. 2022, 15(15), 6115-6142 DOI: 10.5194/gmd-15-6115-2022</p>
<p>Recondo, María del Carmen; Corbea-Pérez, Alejandro; Peón, Juanjo; Pendás, Enrique; Ramos, Miguel; Calleja, Javier F.; Pablo, Miguel Ángel de; Fernández, Susana; Corrales, José Antonio</p>	<p>Empirical models for estimating air temperature using MODIS Land Surface Temperature (and Spatiotemporal Variables) in the Hurd Peninsula of Livingston Island, Antarctica, between 2000 and 2016</p>	<p>Remote Sensing. 2022, 14(13), 3206 DOI: 10.3390/rs14133206</p>
<p>Bañuelos Gimeno, Jorge; Blanco, Álex; Díaz, Julio; Linares, Cristina; López, José A.; Navas-Martín, Miguel Ángel; Sánchez Martínez, Gerardo; Luna Rico, Yolanda; Hervella, Beatriz; Belda, Fernando; Culqui Lévano, Dante R.</p>	<p>¿Influyen la contaminación atmosférica y las variables meteorológicas en la mortalidad por COVID-19? Estudio comparativo de series temporales entre la primera y segunda ola en nueve provincias españolas</p>	<p>Revista de Salud Ambiental. 2022, 22(1), p. 100-112</p>



Gómez-Navarro, J.J.; Raible, C.C.; García-Valero, J.A.; Messmer, M.; Montávez, J.P.; Martius, O.	Event selection for dynamical downscaling: a neural network approach for physically-constrained precipitation events	Climate Dynamics. 2022, 58(9-10), p. 2863-2879 DOI: 10.1007/s00382-019-04818-w
Marthews, Toby R.; Dadson, Simon J.; Clark, Douglas B.; Blyth, Eleanor M.; Hayman, Garry D.; Yamazaki, Dai; Becher, Olivia R. E.; Martínez de la Torre, Alberto; Prigent, Catherine; Jiménez, Carlos	Inundation prediction in tropical wetlands from JULES-CaMa-Flood global land surface simulations	Hydrology and Earth System Sciences. 2022, 26(12), p. 3151-3175 DOI: 10.5194/hess-26-3151-2022
Calbet, Xavier; Carbajal-Henken, Cintia; DeSouza-Machado, Sergio; Sun, Bomin; Reale, Anthony	Small scale variability of water vapor in the atmosphere: implications for inter-comparison of data from different measuring systems	Atmospheric Measurement Techniques Discussions. 2022, p. 1-24 DOI: 10.5194/amt-2022-111
Bonsoms, Josep; López Moreno, Juan Ignacio; González Herrero, Sergi; Oliva, Marc	Increase of the energy available for snow ablation in the Pyrenees (1959-2020) and its relation to atmospheric circulation	Atmospheric Research. 2022, 275, 106228 DOI: 10.1016/j.atmosres.2022.106228
González Herrero, Sergi; Barriopedro, David; Trigo, Ricardo; López Bustins, Joan Albert; Oliva, Marc	Climate warming amplified the 2020 record-breaking heatwave in the Antarctic Peninsula	Communications Earth & Environment. 2022, 3(122), p. 1-9 DOI: 10.1038/s43247-022-00450-5
Beltrán Sanz, Núria; Raggio, José; González Herrero, Sergi ; Dal Grande, Francesco; Prost, Stefan; Green, Allan; Pintado, Ana; García Sancho, Leopoldo	Climate change leads to higher NPP at the end of the century in the Antarctic Tundra: Response patterns through the lens of lichens	Science of the Total Environment. 2022, 835, 155495 DOI: 10.1016/j.scitotenv.2022.155495

<p>Kessabi, Ridouane; Hanchane, Mohamed; Guijarro, José Antonio; Krakauer, Nir Y.; Addou, Rachid; Sadiki, Abderrazzak; Belmahi, Mohamed</p>	<p>Homogenization and Trends Analysis of Monthly Precipitation Series in the Fez-Meknes Region, Morocco</p>	<p>Climate. 2022, 10(5), 64 DOI: 10.3390/cli10050064</p>
<p>Sicard, Michaël; Córdoba-Jabonero, Carmen; Barreto, África; Welton, Ellsworth J.; Gil Díaz, Cristina; Carvajal Pérez, Clara V.; Comerón, Adolfo; García Rodríguez, Omaira Elena; García, Rosa; López Cayuela, María Ángeles; Muñoz Porcar, Constantino; Prats Porta, Natalia; Ramos López, Ramón; Rodríguez Gómez, Alejandro; Toledano, Carlos; Torres, Carlos</p>	<p>Volcanic eruption of Cumbre Vieja, La Palma, Spain: a first insight to the particulate matter injected in the troposphere</p>	<p>Remote Sensing. 2022, 4(10), 2470 DOI: 10.3390/rs14102470</p>
<p>Zhang, Gangfeng; Azorín-Molina, César; Wang, Xuejia; Chen, Deliang; McVicar, Tim R.; Guijarro, Jose Antonio; Chappell, Adrian; Deng, Kaiqiang; Minola, Lorenzo; Kong, Feng; Wang, Shuo; Shi, Peijun</p>	<p>Rapid urbanization induced daily maximum wind speed decline in metropolitan areas: A case study in the Yangtze River Delta (China)</p>	<p>Urban Climate. 2022, 43, 101147 DOI: 10.1016/j.uclim.2022.101147</p>
<p>Domínguez Cuesta, María José; González Pumariega, Pelayo; Valenzuela, Pablo; López Fernández, Carlos; Rodríguez Rodríguez, Laura; Ballesteros, Daniel; Mora García, Manuel Antonio; Meléndez, Mónica; Herrera, Fernando; Marigil, Miguel Ángel; Pando, Luis; Cuervas Mons, José; Jiménez Sánchez, Montserrat</p>	<p>Understanding the retreat of the Jurassic Cantabrian coast (N. Spain): comprehensive monitoring and 4D evolution model of the Tazones Lighthouse landslide</p>	<p>Marine Geology. 2022, 106836 DOI: 10.1016/j.margeo.2022.106836</p>

<p>Mediero, Luis; Soriano, Enrique; Oria, Peio ; Bagli, Stefano; Castellarin, Attilio; Garrote, Luis; Mazzoli, Paolo; Mysiak, Jaroslav; Pasetti, Stefania; Persiano, Simone; Santillán, David; Schroter, Kai</p>	<p>Pluvial flooding: high-resolution stochastic hazard mapping in urban areas by using fast-processing DEM-based algorithms</p>	<p>Journal of Hydrology. 2022 (608), 127649 DOI: 10.1016/j.jhydrol.2022.127649</p>
<p>Utrabo-Carazo, Eduardo; Azorín Molina, César; Serrano, Encarna; Aguilar, Enric; Brunet, Manola; Guijarro, José Antonio</p>	<p>Wind stilling ceased in the Iberian Peninsula since the 2000s</p>	<p>Atmospheric Research. 2022 (272), 106153 DOI: 10.1016/j.atmosres.2022.106153</p>
<p>Vandenbussche, Sophie; Langerock, Bavo; Vigouroux, Corinne; Buschmann, Matthias; Deutscher, Nicholas Michael; Feist, Dietrich G.; García Rodríguez, Omaira; Hannigan, James W.; Hase, Frank; Kivi, Rigel; Kumps, Nicolas; Makarova, Maria; Millet, Dylan B.; Morino, Isamu; Nagahama, Tomoo; Notholt, Justus; Ohyama, Hirofumi; Ortega, Ivan; Petri, Christof; Rettinger, Markus; Schneider, Matthias; Servais, Christian; Sha, Mahesh Kumar; Shiomi, Kei; Smale, Dan; Strong, Kimberly; Sussmann, Ralf; Te, Yao; Velazco, Voltaire A.; Vrekoussis, Mihalis; Warneke, Thorsten; Wells, Kelley C.; Wunch, Debra; Zhou, Minqiang; Mazière, Martine de</p>	<p>Nitrous Oxide Profiling from Infrared Radiances (NOPIR): algorithm description, application to 10 years of IASI observations and quality assessment</p>	<p>Remote Sensing. 2022, 14(8), p. 1-30 DOI: 10.3390/rs14081810</p>
<p>Chang, Kai-Lan; Cooper, Owen R.; Gaudel, Audrey; Allaart, Marc; Ancellet, Gerard; Clark, Hannah; Godin-Beekmann, Sophie; Leblanc, Thierry; Malderen, Roeland van; Nédélec, Philippe; Petropavlovskikh, Irina;</p>	<p>Impact of the COVID-19 economic downturn on tropospheric ozone trends: an uncertainty weighted data synthesis for quantifying regional anomalies above Western North America and Europe</p>	<p>AGU Advances. 2022, 3(2), p. 1-27 DOI: 10.1029/2021AV000542</p>

<p>Steinbrecht, Wolfgang; Stübi, Rene; Tarasick, David W.; Torres, Carlos</p>		
<p>Gómez-Navarro, J.J.; Raible, C.C.; García-Valero, J.A.; Messmer, M.; Montávez, J.P.; Martius, O.</p>	<p>Event selection for dynamical downscaling: a neural network approach for physically-constrained precipitation events</p>	<p>Climate Dynamics. 2022, 58(9-10), p. 2863-2879 DOI: 10.1007/s00382-019-04818-w</p>
<p>Hernanz, Alfonso; García-Valero, Juan Andrés; Domínguez, Marta; Rodríguez-Camino, Ernesto</p>	<p>Evaluation of statistical downscaling methods for climate change projections over Spain: Present conditions with imperfect predictors (global climate model experiment)</p>	<p>International Journal of Climatology. 2022, p. 1-14 DOI: 10.1002/joc.7611</p>
<p>Bañuelos Gimeno, J.; Blanco, A.; Díaz, J.; Linares, C.; López, J. A.; Navas, M.A.; Sánchez-Martínez, G.; Luna, Y.; Hervella, B.; Belda, F.; Culqui, D. R.</p>	<p>Air pollution and meteorological variables' effects on COVID-19 first and second waves in Spain</p>	<p>International Journal of Environmental Science and Technology. 2022 DOI: 10.1007/s13762-022-04190-z</p>
<p>Kochendorfer, John; Earle, Michael E.; Rasmussen, Roy; Smith, Craig D.; Yang, Daqing; Morin, Samuel; Mekis, Eva; Buisán, Samuel; Roulet, Yves-Alain; Landolt, Scott; Wolff, Mareile; Hoover, Jeffery; Thériault, Julie M.; Lee, Gyuwon; Baker, Bruce; Nitu, Rodica; Lanza, Luca; Colli, Matteo; Meyers, Tilden</p>	<p>How well are we measuring snow Post-SPICE?</p>	<p>Bulletin of the American Meteorological Society. 2022, 103(2), p. E370-E388 DOI: 10.1175/BAMS-D-20-0228.1</p>
<p>García Rodríguez, Omaira Elena; Sanromá, Esther; Schneider, Matthias; Hase, Frank; León-Luis, Sergio Fabian; Blumenstock, Thomas; Sepúlveda Hernández, Eliezer;</p>	<p>Improved ozone monitoring by ground-based FTIR spectrometry</p>	<p>Atmospheric Measurement Techniques. 2022, 15(8), p. 2557-2577 DOI: 10.5194/amt-15-2557-2022</p>

<p>Redondas, Alberto; Carreño Corbella, Virgilio; Torres, Carlos; Prats Porta, Natalia</p>		
<p>Schneider, Matthias ; Ertl, Benjamin; Diekmann, Christopher; Khosrawi, Farahnaz; Weber, Andreas; Hase, Frank; Höpfner, Michael; García Rodríguez, Omaira Elena; Sepúlveda Hernández, Eliezer; Kinnison, Douglas</p>	<p>Design and description of the MUSICA IASI full retrieval product</p>	<p>Earth System Science Data. 2022, 14(2), p. 709-742 DOI: 10.5194/essd-14-709-2022</p>
<p>Smith, Robert Kennedy; Guijarro, José; Chang, Der-Chen; Chen, Yiming</p>	<p>Methodology to quantify the role of intense precipitation runoff in soil moisture scarcity: a case study in the U.S. South from 1980-2020</p>	<p>Journal of Agricultural Meteorology. 2022, 78(2), p. 78-87 DOI: 10.2480/agrmet.D-21-00054</p>
<p>Sainz, Carlos; Fábrega, Julia; Rábago, Daniel; Celaya, Santiago; Fernández, Alicia; Fuente, Ismael; Fernández, Enrique; Quindós, Jorge; Arteché García, José Luis; Quindós López, Luis</p>	<p>Use of radon and CO2 for the identification and analysis of short-term fluctuations in the ventilation of the polychrome room inside the Altamira Cave</p>	<p>International Journal of Environmental Research and Public Health. 2022, 19, 3662 DOI: 10.3390/ijerph19063662</p>
<p>Navas-Martín, Miguel Ángel; López Bueno, José Antonio; Díaz Jiménez, Julio; Follos Pliego, Fernando; Vellón Graña, José Manuel; Mirón Pérez, Isidro J.; Luna Rico, Yolanda; Sánchez Martínez, Gerardo; Culqui Lévano, Dante R.; Linares Gil, Cristina</p>	<p>Effects of local factors on adaptation to heat in Spain (1983-2018)</p>	<p>Environmental Research. 2022, 209, 112784 DOI: 10.1016/j.envres.2022.112784</p>
<p>López-Bueno, J.A.; Navas-Martín, M.A.; Díaz, J.; Mirón, I.J.; Luna, M.Y.; Sánchez-Martínez, G.; Culqui, D.; Linares, C.</p>	<p>Analysis of vulnerability to heat in rural and urban areas in Spain: What factors explain Heat's geographic behavior?</p>	<p>Environmental Research. 2022, 207, 112213</p>

		DOI: 10.1016/j.envres.2021.112213
Culqui, Dante R.; Díaz, Julio; Blanco, Alejandro; Lopez, José A.; Navas, Miguel A.; Sánchez-Martínez, Gerardo; Yolanda Luna, M.; Hervella, Beatriz; Belda, Fernando; Linares, Cristina	Short-term influence of environmental factors and social variables COVID-19 disease in Spain during first wave (Feb-May 2020)	Environmental Science and Pollution Research. 2022 DOI: 10.1007/s11356-022-19232-9
Vicente-Serrano, S.M.; Domínguez-Castro, F.; Reig, F; Beguería, S.; Tomas-Burguera, M.; Latorre, B.; Pena-Angulo, D.; Noguera, I.; Rabanaque, I.; Luna, Y.; Morata, A.; El Kenawy, A.	A near real-time drought monitoring system for Spain using automatic weather station network	Atmospheric Research. 2022, 271, 106095 DOI: 10.1016/j.atmosres.2022.106095
Culqui Lévano, Dante R.; Díaz Jiménez, Julio; Blanco, Alejandro; López, José Antonio; Navas-Martín, Miguel Ángel; Sánchez Martínez, Gerardo; Luna Rico, Yolanda; Hervella, Beatriz; Belda, Fernando; Linares Gil, Cristina	Mortality due to COVID-19 in Spain and its association with environmental factors and determinants of health	Environmental Sciences Europe. 2022, 34(39), p. 1-12 DOI: 10.1186/s12302-022-00617-z
Hernanz Lázaro, Alfonso; García Valero, Juan Andrés; Domínguez Alonso, Marta; Rodríguez Camino, Ernesto	A critical view on the suitability of machine learning techniques to downscale climate change projections : illustration for temperature with a toy experiment	Atmospheric Science Letters. 2022, e1087 DOI: 10.1002/asl.1087
Alberti, Carlos; Hase, Frank; Frey, Matthias; Dubravica, Darko; Blumenstock, Thomas; Dehn, Angelika; Castracane, Paolo; Surawicz, Gregor; Harig, Roland; Baier, Bianca C.; Bès, Caroline; Jianrong, Bi; Boesch, Hartmut; Butz, André; Cai,	Improved calibration procedures for the EM27/SUN spectrometers of the COllaborative Carbon Column Observing Network (COCCON)	Atmospheric Measurement Techniques. 2022, 15(8), p. 2433-2463 DOI: 10.5194/amt-15-2433-2022

Zhaonan; Chen, Jia; Crowell, Sean;
 Deutscher, Nicholas Michael; Ene, Dragos;
 Franklin, Jonathan; García Rodríguez,
 Omaira Elena; Griffith, David W. T. ;
 Grouiez, Bruno; Grutter, Michel; Hamdouni,
 Abdelhamid; Houweling, Sander; Humpage,
 Neil; Jacobs, Nicole; Jeong, Sujong

Hannigan, James W.; Ortega, Ivan; Shams,
 Shima Bahramvash; Blumenstock, Thomas;
 Campbell, John Elliot; Conway, Stephanie;
 Flood, Victoria; García Rodríguez, Omaira
 Elena; Griffith, David W. T. ; Grutter,
 Michel; Hase, Frank; Jeseck, Pascal; Jones,
 Nicholas; Mahieu, Emmanuel; Makarova,
 Maria ... Nakijima, Hideaki; Notholt, Justus;
 Palm, Mathias; Poberovskii, Anatoly;
 Rettinger, Markus; Robinson, John; Röhling,
 Amelie N.; Schneider, Matthias; Servais,
 Christian ... etc.

Taylor, Thomas E.; O'Dell, Christopher W. ;
 Crisp, David; Kuze, Akhiko ... Palmer, Paul
 I.; Feng, Liang; Deutscher, Nicholas
 Michael; Dubey, Manvendra K.; Feist,
 Dietrich G.; García Rodríguez, Omaira
 Elena; Griffith, David W. T. ; Hase, Frank;
 Iraci, Laura; Kivi, Rigel; Liu, Cheng;
 Mazière, Martine de; Morino, Isamu;
 Notholt, Justus; Oh, Young-Suk; Ohyama,
 Hirofumi ... Sha, Mahesh Kumar; Shiomi,
 Kei; Strong, Kimberly ... etc.

[Global Atmospheric OCS Trend Analysis From 22 NDACC Stations](#)

[An 11-year record of XCO2 estimates derived from GOSAT measurements using the NASA ACOS version 9 retrieval algorithm](#)

Journal of Geophysical Research:
 Atmospheres. 2022, 127(4), p. 1-28

DOI: [10.1029/2021JD035764](https://doi.org/10.1029/2021JD035764)

Earth System Science Data. 2022, 14, p.
 325-360

DOI: [10.5194/essd-14-325-2022](https://doi.org/10.5194/essd-14-325-2022)

<p>Bolgiani, Pedro; Calvo Sancho, Carlos; Díaz Fernández, Javier; Quitián Hernández, Lara; Sastre, Mariano; Santos Muñoz, Daniel; Farrán Martín, José Ignacio; González-Alemán, Juan J.; Valero Rodríguez, Francisco; Martín, María Luisa</p>	<p>Wind kinetic energy climatology and effective resolution for the ERA5 reanalysis</p>	<p>Climate Dynamics. 2022, p. 1-16 DOI: 10.1007/s00382-022-06154-y</p>
<p>Cordero, Raul R. ... Redondas, Alberto; Carrasco, Jorge; Sepúlveda, Edgardo; Jorquera, Jose A.; Fernandoy, Francisco; Llanillo, Pedro ... etc.</p>	<p>Persistent extreme ultraviolet irradiance in Antarctica despite the ozone recovery onset</p>	<p>Scientific Reports. 2022, 12:1266 DOI: 10.1038/s41598-022-05449-8</p>
<p>Sánchez García, Eroteida; Abia Llera, Inmaculada; Domínguez Alonso, Marta; Voces Aboy, José; Sánchez Perrino, Juan Carlos; Navascués, Beatriz; Rodríguez Camino, Ernesto; Garrido del Pozo, Nieves; García, M. C.; Pastor, F.; Dimas, Mirta; Barranco, Luis</p>	<p>Upgrade of a climate service tailored to water reservoirs management</p>	<p>Climate services. 2022, 25, p. 1-14. DOI: 10.1016/j.cliser.2021.100281</p>
<p>Barreto, África; Cuevas Agulló, Emilio; García Cabrera, Rosa Delia; Carrillo, Judith; Prospero, Joseph M.; Ilic, Luka; Basart, Sara; Berjón, Alberto; Marrero, Carlos ; Hernández Pérez, Carmen Yballa; Bustos, Juan José de; Nickovic, Slodoban; Yela, Margarita</p>	<p>Long-term characterisation of the vertical structure of the Saharan Air Layer over the Canary Islands using lidar and radiosonde profiles: implications for radiative and cloud processes over the subtropical Atlantic Ocean</p>	<p>Atmospheric Chemistry and Physics. 2022, 22 (2), p. 739-763. DOI: 10.5194/acp-2021-508</p>