

Artículos del personal de AEMET en revistas científicas - 2022 (act. 03/06/2022)

AUTOR	TÍTULO	PUBLICACIÓN
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, Nùria; 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
Kessabi, Ridouane; Hanchane, Mohamed; Guijarro, José Antonio; Krakauer, Nir Y.; Addou, Rachid; Sadiki, Abderrazzak; Belmahi, Mohamed	Homogenization and Trends Analysis of Monthly Precipitation Series in the Fez-Meknes Region, Morocco	Climate. 2022, 10(5), 64 doi: 10.3390/cli10050064
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;	Volcanic eruption of Cumbre Vieja, La Palma, Spain: a first insight to the particulate matter injected in the troposphere	Remote Sensing. 2022, 4(10), 2470 doi: 10.3390/rs14102470

<p>Rodríguez Gómez, Alejandro; Toledano, Carlos; Torres, Carlos</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</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>

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<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; Steinbrecht, Wolfgang; Stübi, Rene; Tarasick, David W. ; Torres, Carlos</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>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; Redondas, Alberto; Carreño Corbella, Virgilio; Torres, Carlos; Prats Porta, Natalia</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>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; Arteche 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 doi: 10.1016/j.envres.2021.112213</p>
<p>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</p>	<p>Short-term influence of environmental factors and social variables COVID-19 disease in Spain during first wave (Feb-May 2020)</p>	<p>Environmental Science and Pollution Research. 2022 doi: 10.1007/s11356-022-19232-9</p>
<p>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.</p>	<p>A near real-time drought monitoring system for Spain using automatic weather station network</p>	<p>Atmospheric Research. 2022, 271, 106095 doi: 10.1016/j.atmosres.2022.106095</p>

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<p>Hernanz Lázaro, Alfonso; García Valero, Juan Andrés; Domínguez Alonso, Marta; Rodríguez Camino, Ernesto</p>	<p>A critical view on the suitability of machine learning techniques to downscale climate change projections : illustration for temperature with a toy experiment</p>	<p>Atmospheric Science Letters. 2022, e1087 doi: 10.1002/asl.1087</p>
<p>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, 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</p>	<p>Improved calibration procedures for the EM27/SUN spectrometers of the COllaborative Carbon Column Observing Network (COCCON)</p>	<p>Atmospheric Measurement Techniques. 2022, 15(8), p. 2433-2463 doi: 10.5194/amt-15-2433-2022</p>
<p>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,</p>	<p>Global Atmospheric OCS Trend Analysis From 22 NDACC Stations</p>	<p>Journal of Geophysical Research: Atmospheres. 2022, 127(4), p. 1-28 doi: 10.1029/2021JD035764</p>

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<p>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; ...</p>	<p>An 11-year record of XCO2 estimates derived from GOSAT measurements using the NASA ACOS version 9 retrieval algorithm</p>	<p>Earth System Science Data. 2022, 14, p. 325-360 doi: 10.5194/essd-14-325-2022</p>
<p>Bolgiani, Pedro; Calvo Sancho, Carlos; Díaz Fernández, Javier; Qutián 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.; Fernandez, Francisco; Llanillo, Pedro; ...</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>

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[Upgrade of a climate service tailored to water reservoirs management](#)

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