

Artículos del personal de AEMET en revistas científicas - 2020

AUTOR	TÍTULO	PUBLICACIÓN
Almela, Pablo; González Herrero, Sergi	Are Antarctic Specially Protected Areas safe from plastic pollution? a survey of plastic litter at Byers Peninsula, Livingston Island, Antarctica	Advances in Polar Science. 2020, 31(4), p. 284-290 doi: 10.13679/j.advps.2020.0029
Vegas Cañas, Cristina; González Rouco, J. Fidel; Navarro, Jorge; García Bustamante, Elena ... Rodríguez Camino, Ernesto; Chazarra, Andrés ... etc.	An assessment of observed and simulated temperature variability in Sierra de Guadarrama	Atmosphere. 2020, 11(9), 985 doi: 10.3390/atmos11090985
Díaz Fernández, Javier; Qutián Hernández, Lara; Bolgiani, Pedro; Santos Muñoz, Daniel; García Gago, Ángel; Fernández-González, Sergio ... etc.	Mountain waves analysis in the vicinity of the Madrid-Barajas Airport using the WRF model	Advances in Meteorology. 2020, p. 1-17 doi: 10.1155/2020/8871546
Lakkala, Kaisa ... García Cabrera, Rosa Delia; Gröbner, Julian ... León-Luis, Sergio F. ; Lindfors, Anders V.; Metzger, Jean-Marc; Minvielle, Fanny ... Redondas, Alberto etc.	Validation of the TROPospheric Monitoring Instrument (TROPOMI) surface UV radiation product	Atmospheric Measurement Techniques. 2020, 13(12), p. 6999-7024 doi: 10.5194/amt-13-6999-2020

<p>García Rodríguez, Omaira Elena; Schneider, Matthias; Ertl, Benjamin; Sepúlveda Hernández, Eliezer; Borger, Christian ... Cansado, Alberto; Aullé, M.</p>	<p>Monitorización de las concentraciones atmosféricas de metano y óxido nitroso a partir del Metop/IASI</p>	<p>Revista de Teledetección. 2020, 57, p. 1-11 doi: 10.4995/raet.2020.13290</p>
<p>González Herrero, Sergi</p>	<p>The weather of the Blue Marble</p>	<p>Weather. 2020, 75(11), p. 366-367 doi: 10.1002/wea.3831</p>
<p>García-Benadi, Albert; Bech, Joan; González Herrero, Sergi; Udina, Mireia; Codina, B.; Georgis, Jean-François</p>	<p>Precipitation type classification of micro rain radar data using an improved doppler spectral processing methodology</p>	<p>Remote Sensing. 2020, 12(24), 4113 doi: 10.3390/rs12244113</p>
<p>Smith, Craig D.; Ross, Amber; Kochendorfer, John; Earle, Michael E.; Wolff, Mareile; Buisán, Samuel ... etc.</p>	<p>Evaluation of the WMO Solid Precipitation Intercomparison Experiment (SPICE) transfer functions for adjusting the wind bias in solid precipitation measurements</p>	<p>Hydrology and Earth System Sciences. 2020, 24(8), p. 4025-4043 doi: 10.5194/hess-24-4025-2020</p>
<p>Rodríguez, Oriol; Bech, Joan; Soriano Romero, Juan de Dios; Gutiérrez Rubio, Delia; Castan, Salvador</p>	<p>A methodology to conduct wind damage field surveys for high-impact weather events of convective origin</p>	<p>Natural Hazards and Earth System Sciences. 2020, 20(5), p. 1513-1531 doi: 10.5194/nhess-20-1513-2020</p>
<p>Ramonet, M.; Ciais, P.; Apadula, F. ... Cuevas, E. etc.</p>	<p>The fingerprint of the summer 2018 drought in Europe on ground-based atmospheric CO₂ measurements</p>	<p>Philosophical Transactions of the Royal Society B. 2020, 375(1810) doi: 10.1098/rstb.2019.0513</p>

<p>Román, Roberto; González, Ramiro; Toledano, Carlos; Barreto, África; Pérez Ramírez, D.; Benavent Oltra, J.A.; Olmo Reyes, Francisco José; Cachorro, Victoria E.; Alados-Arboledas, Lucas; Frutos, Ángel M. de</p>	<p>Correction of a lunar-irradiance model for aerosol optical depth retrieval and comparison with a star photometer</p>	<p>Atmospheric Measurement Techniques. 2020, 13(11), p. 6293-6310 doi: 10.5194/amt-13-6293-2020</p>
<p>Smith, Robert Kennedy; Guijarro, José Antonio; Chang, Der-Chen</p>	<p>Utilizing homogenized observation records and reconstructed time series data to estimate recent trends in Mid-Atlantic soil moisture scarcity</p>	<p>Theoretical and Applied Climatology. 2020 doi: 10.1007/s00704-020-03467-y</p>
<p>González, Ramiro; Toledano, Carlos; Román, Roberto; Fuertes, David; Berjón, Alberto; Mateos, David; Guirado-Fuentes, Carmen ... etc.</p>	<p>Daytime and nighttime aerosol optical depth implementation in CÆLIS</p>	<p>Geoscientific Instrumentation, Methods and Data Systems. 2020, 9(2), p. 417-433 doi: 10.5194/gi-9-417-2020</p>
<p>Dogniaux, Matthieu; Crevoisier, Cyril; Armante, Raymond; Capelle, Virginie; Delahaye, Thibault; Cassé, Vincent; Mazière, Martine de; Deutscher, Nicholas Michael; Feist, Dietrich G.; García Rodríguez, Omaira Elena; Griffith, David W. T.; Hase, Frank; Iraci, Laura; Kivi, Rigel; Morino, Isamu; Notholt, Justus; Pollard, David; Roehl, Coleen M.; Shiomi, Kei ... etc.</p>	<p>The Adaptable 4A Inversion (5A1): Description and first XCO₂ retrievals from OCO-2 observations</p>	<p>Atmospheric Measurement Techniques Discussions. 2020 doi: 10.5194/amt-2020-403</p>

<p>Skrynyka, Oleg; Aguilar, Enric; Guijarro, José Antonio; Randriamarolaza, Luc Yannick Andréas; Bubin, Sergiy</p>	<p>Uncertainty evaluation of Climatol's adjustment algorithm applied to daily air temperature time series</p>	<p>International Journal of Climatology. 2020 doi: 10.1002/joc.6854</p>
<p>González Herrero, Sergi; Callado, Alfons; Martínez Sánchez, Mauricia; Elvira Montejo, Benito</p>	<p>The AEMET-γSREPS over the Antarctic Peninsula and the impact of kilometric-resolution EPS on logistic activities on the continent</p>	<p>Advances in Science and Research. 2020, 17, p. 209-217 doi: 10.5194/asr-17-209-2020</p>
<p>Amblar, María Pilar; Ramos Calzado, Petra; Sanchis Lladó, Jorge; Hernanz Lázaro, Alfonso; Peral-García, María C.; Navascués, Beatriz; Domínguez Alonso, Marta; Pastor Saavedra, María Asunción; Rodríguez Camino, Ernesto</p>	<p>High resolution climate change projections for the Pyrenees region</p>	<p>Advances in Science and Research. 2020, 17, p. 191-208 doi: 10.5194/asr-17-191-2020</p>
<p>Barreto, África; García Rodríguez, Omaira Elena; Schneider, Matthias; García Cabrera, Rosa Delia; Hase, Frank; Sepúlveda Hernández, Eliezer; Almansa Rodríguez, Antonio F.; Cuevas Agulló, Emilio; Blumenstock, Thomas</p>	<p>Spectral Aerosol Optical Depth retrievals by ground-based Fourier Transform Infrared spectrometry</p>	<p>Remote Sensing. 2020, 12(19), 3148 doi: 10.3390/rs12193148</p>
<p>Laj, Paolo; Bigi, Alessandro; Rose, Clémence ... Prats Porta, Natalia ... etc.</p>	<p>A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories</p>	<p>Atmospheric Measurement Techniques. 2020, 13(8), p. 4353-4392 doi: 10.5194/amt-13-4353-2020</p>

<p>Collaud Coen, M.; Andrews, E.; Alastuey, A.; Petkov Arsov, T.; Backman, J.; Brem, Benjamin T.; Bukowiecki, N.; Couret, C.c; Eleftheriadis, K.; Flentje, H.; Fiebig, M.; Gysel, M.; Hand, Jenny L.; Hoffer, A.; Hooda, R.; Hueglin, C.; Joubert, W.; Keywood, M.; Kim, J. E.; Kim, Sang-Woo; Labuschagne, C.; Lin, Neng-Huei; Lin, Yong; Myhre, C. L.; Luoma, K.; Lyamani, H.; Marinoni, A.; Mayol-Bracero, O. L.; Mihalopoulos, N.; Pandolfi, M.; Prats Porta, N. ... etc.</p>	<p>Multidecadal trend analysis of in situ aerosol radiative properties around the world</p>	<p>Atmospheric Chemistry and Physics. 2020, 20, p. 8867-8908. doi: 10.5194/acp-20-8867-2020</p>
<p>Bolgiani, Pedro; Santos Muñoz, Daniel; Fernández-González, Sergio; Sastre, Mariano; Valero, Francisco; Martín, María Luisa</p>	<p>Microburst detection with the WRF model: effective resolution and forecasting indices</p>	<p>Journal of Geophysical Research: Atmospheres. 2020, 125(14), p. 1-13 doi: 10.1029/2020JD032883</p>
<p>Madonna, Fabio; Kivi, Rigel; Dupont, Jean-Charles; Ingleby, Bruce; Fujiwara, Masatomo; Romanens, Gonzague; Hernández Martínez de la Peña, Miguel; Calbet, Xavier; Rosoldi, Marco; Giunta, Aldo; Karppinen, Tomi; Iwabuchi, Masami; Hoshino, Shunsuke; Rohden, C. v.; Thorne, P. W.</p>	<p>Use of automatic radiosonde launchers to measure temperature and humidity profiles from the GRUAN perspective</p>	<p>Atmospheric Measurement Techniques. 2020, 13(7), p. 3621-3649 doi: 10.5194/amt-13-3621-2020</p>

<p>Vicente Serrano, Sergio Martín; Domínguez Castro, Fernando; Murphy, C.; Hannaford, J.; Reig, Fergus; Peña-Angulo, D.; Tramblay, Yves; Trigo, R. M.; MacDonald, N.; Luna Rico, Yolanda; McCarthy, M.; Van der Schrier, G.; Turco, Marco; Camuffo, D.; Noguera, I.; García-Herrera, Ricardo; Becherini, F.; della Valle, A.; Tomas Burguera, Miquel; El-Kenawy, Ahmed</p>	<p>Long-term variability and trends in meteorological droughts in Western Europe (1851-2018)</p>	<p>International Journal of Climatology. 2020 doi: 10.1002/joc.6719</p>
<p>Meseguer, Óliver; Cortesi, Nicola; Guijarro, José Antonio; Sarricolea, Pablo</p>	<p>Weather regimes linked to daily precipitation anomalies in Northern Chile</p>	<p>Atmospheric Research. 2020, 236, p. 104802 doi: 10.1016/j.atmosres.2019.104802</p>
<p>Navarro-Serrano, F.; López Moreno, Juan Ignacio; Azorín Molina, César; Alonso-González, E.; Aznárez-Balta, M.; Buisán, Samuel; Revuelto, Jesús</p>	<p>Elevation effects on air temperature in a topographically complex mountain valley in the Spanish Pyrenees</p>	<p>Atmosphere. 2020, 11(6), 656 doi: 10.3390/atmos11060656</p>
<p>Follos Pliego, F.; Linares Gil, C.; Vellón Graña, J.M.; López Bueno, J.A.; Luna Rico, M.Y.; Sánchez Martínez, G.; Díaz Jiménez, J.</p>	<p>Evolución de la temperatura de mínima mortalidad en Madrid y Sevilla en el periodo 1983-2018</p>	<p>Revista de salud ambiental. 2020, 20(1), p.14-20</p>

<p>Peña-Angulo, D.; Vicente Serrano, Sergio Martín; Domínguez Castro, Fernando; Murphy, C.; Reig, Fergus; Trambly, Yves; Trigo, R. M.; Luna Rico, Yolanda; Turco, Marco; Noguera, I.; Aznárez-Balta, M.; García-Herrera, Ricardo; Tomas Burguera, Miquel; El-Kenawy, Ahmed</p>	<p>Long-term precipitation in Southwestern Europe reveals no clear trend attributable to anthropogenic forcing</p>	<p>Environmental Research Letters. 2020, p. 1-23 doi: 10.1088/1748-9326/ab9c4f</p>
<p>Cooper, O. R.; Schultz, M.; Schröder, Marc; Chang, Kai-Lan; Gaudel, A.; Carbajal Benítez, Gerardo; Cuevas Agulló, Emilio; Fröhlich, M.; Galbally, I. E.; Molloy, Suzie; Kubistin, Dagmar; Lu, Xiao; McClure-Begley, A. ... etc.</p>	<p>Multi-decadal surface ozone trends at globally distributed remote locations</p>	<p>Elementa: Science of the Anthropocene. 2020, 8:23, p. 1-34 doi: 10.1525/elementa.420</p>
<p>Zhang, Gangfeng; Azorín Molina, César; Chen, Deliang; Guijarro, José Antonio; Kong, Feng; Minola, Lorenzo; McVicar, Tim R.; Son, Seok-Woo; Shi, Peijun</p>	<p>Variability of daily maximum wind speed across China, 1975-2016: an examination of likely causes</p>	<p>Journal of Climate. 2020, 33, p. 2793-2816 doi: 10.1175/JCLI-D-19-0603.1</p>
<p>Quitíán Hernández, Lara; González-Alemán, Juan J.; Santos Muñoz, Daniel; Fernández-González, Sergio; Valero Rodríguez, Francisco; Martín Pérez, María Luisa</p>	<p>Subtropical cyclone formation via warm seclusion development: the importance of surface fluxes</p>	<p>Journal of Geophysical Research: Atmospheres. 2020, 125(8), p. 1-17 doi: 10.1029/2019JD031526</p>

<p>Prados-Román, Cristina; Fernández, Miguel; Gómez, Laura; Cuevas Agulló, Emilio; Gil-Ojeda, Manuel; Maruszczak, Nicolas; Puentedura, Olga; Sonke, Jeroen E.; Saiz-Lopez, Alfonso</p>	<p>Atmospheric formaldehyde at El Teide and Pic du Midi remote high-altitude sites</p>	<p>Atmospheric Environment. 2020, 234, 117618 doi: 10.1016/j.atmosenv.2020.117618</p>
<p>Pablo Dávila, Fernando de; Rivas Soriano, Luis; Mora García, Manuel Antonio; González Zamora, A.</p>	<p>Characterisation of snowfall events in the northern Iberian Peninsula and the synoptic classification of heavy episodes (1988-2018)</p>	<p>International Journal of Climatology. 2020 doi: 10.1002/joc.6646</p>
<p>García Cabrera, Rosa Delia; Cuevas Agulló, Emilio; Barreto, África; Cachorro, Victoria E.; Pó, Mario; Ramos López, Ramón; Hoogendijk, Kees</p>	<p>Aerosol retrievals from the EKO MS-711 spectral direct irradiance measurements and corrections of the circumsolar radiation</p>	<p>Atmospheric Measurement Techniques. 2020, 13(5), p. 2601-2621 doi: 10.5194/amt-13-2601-2020</p>
<p>Belušić, Danijel; Vries, Hylke de; Dobler, Andreas; Landgren, Oskar; Lind, Petter; Lindstedt, David; Pedersen, Rasmus A.; Sánchez Perrino, Juan Carlos; Toivonen, Erika; van Ulft, Bert; Wang, Fuxing; Andrae, Ulf; Batrak, Yurii; Kjellström, Erik; Lenderink, Geert; Nikulin, Grigory; Pietikäinen, Joni-Pekka; Rodríguez Camino, Ernesto; Samuelsson, Patrick; Meijgaard, Erik van; Wu, Minchao</p>	<p>HCLIM38: a flexible regional climate model applicable for different climate zones from coarse to convection-permitting scales</p>	<p>Geoscientific Model Development. 2020, 13(3), p. 1311-1333 doi: 10.5194/gmd-13-1311-2020</p>

Almansa Rodríguez, Antonio F.; Cuevas Agulló, Emilio; Barreto, África; Torres, Benjamín; García Rodríguez, Omaira Elena; García Cabrera, Rosa Delia ; Velasco Merino, Cristian; Cachorro, Victoria E.; Berjón, Alberto; Mallorquín, Manuel; López, César; Ramos López, Ramón; Guirado-Fuentes, Carmen; Negrillo, Ramón; Frutos, Ángel M. de

[Column integrated water vapor and aerosol load characterization with the new ZEN-R52 radiometer](#)

Remote Sensing. 2020, 12(9), 1424

doi: [10.3390/rs12091424](https://doi.org/10.3390/rs12091424)

Udina, Mireia; Bech, Joan; González Herrero, Sergi; Soler, M. R.; Paci, Alexandre; Miró, Josep Ramón; Trapero, L.; Donier, Jean Marie; Douffet, Thierry; Codina, B.; Pineda, Nicolau

[Multi-sensor observations of an elevated rotor during a mountain wave event in the Eastern Pyrenees](#)

Atmospheric Research. 2020, 234, 104698

doi: [10.1016/j.atmosres.2019.104698](https://doi.org/10.1016/j.atmosres.2019.104698)

Malderen, Roeland van; Pottiaux, E.; Klos, A.; Domonkos, Peter; Elias, M.; Ning, T.; Bock, Olivier; Guijarro, José Antonio; Alshawaf, F.; Hoseini, M.; Quarello, A.; Lebarbier, Emilie; Chimani, B.; Tornatore, V.; Zengin Kazancı, S.; Bogusz, J.

[Homogenizing GPS integrated water vapor time series: benchmarking break detection methods on synthetic data sets](#)

Earth and Space Science. 2020, 7(5)

doi: [10.1029/2020EA001121](https://doi.org/10.1029/2020EA001121)

<p>Sainz, Carlos; Rábago, Daniel; Fernández, Enrique; Quindós, Jorge; Quindós, Luis; Fernández, Alicia; Fuente Merino, Ismael; Arteché García, José Luis; Quindós, Luis Santiago</p>	<p>Variations in radon dosimetry under different assessment approaches in the Altamira Cave</p>	<p>Journal of Radiological Protection. 2020, 40(2), 367 doi: 10.1088/1361-6498/ab6fd2</p>
<p>Dumitrescu, Alexandru; Cheval, S.; Guijarro, José Antonio</p>	<p>Homogenization of a combined hourly air temperature dataset over Romania</p>	<p>International Journal of Climatology. 2020, 40(5), p. 2599-2608 doi: 10.1002/joc.6353</p>
<p>Tapiador, Francisco J.; Navarro Arnés, Andrés; García Ortega, Eduardo; Merino Suances, Andrés; Sánchez Gómez, José Luis; Marcos Martín, Cecilia; Kummerow, Christian</p>	<p>The contribution of rain gauges in the calibration of the IMERG product: results from the first validation over Spain</p>	<p>Journal of Hydrometeorology. 2020, 21, p. 161-182 doi: 10.1175/JHM-D-19-0116.1</p>
<p>Domínguez Rodríguez, Alberto; Baez Ferrer, Néstor; Rodríguez González, Sergio; Avanzas, Pablo; Abreu González, Pedro; Terradellas, Enric; Cuevas Agulló, Emilio; Basart, Sara; Werner, Ernest</p>	<p>Saharan dust events in the dust belt -Canary Islands and the observed association with in-hospital mortality of patients with heart failure</p>	<p>Journal of Clinical Medicine. 2020, 9(2), 376 doi: 10.3390/jcm9020376</p>
<p>Rontu, Laura; Gleeson, Emily; Martín Pérez, Daniel; Nielsen, Kristian Pagh; Toll, Velle</p>	<p>Sensitivity of radiative fluxes to aerosols in the ALADIN-HIRLAM numerical weather prediction system</p>	<p>Atmosphere. 2020, 11(2), 205 doi: 10.3390/atmos11020205</p>

<p>Buisán, Samuel; Smith, Craig D.; Ross, Amber; Kochendorfer, John; Collado, José Luis; Alastrué, Javier; Wolff, Mareile; Roulet, Yves-Alain; Earle, Michael E.; Laine, Timo; Rasmussen, Roy; Nitu, Rodica</p>	<p>The potential for uncertainty in Numerical Weather Prediction model verification when using solidprecipitation observations</p>	<p>Atmospheric Science Letters. 2020, e976</p> <p>doi: 10.1002/asl.976</p>
<p>Carrió, D. S.; Homar, Víctor; Jansà Clar, Agustí; Picornell, María Ángeles; Campins, Joan</p>	<p>Diagnosis of a high-impact secondary cyclone during HyMeX-SOP1 IOP18</p>	<p>Atmospheric Research. 2020, 242, 104983</p> <p>doi: 10.1016/j.atmosres.2020.104983</p>
<p>Bolgiani, Pedro; Fernández-González, Sergio; Valero, Francisco; Merino, Andrés; García-Ortega, Eduardo; Sánchez, José Luis; Martín, María Luisa</p>	<p>Simulation of atmospheric microbursts using a numerical mesoscale model at high spatiotemporal resolution</p>	<p>Journal of Geophysical Research: Atmospheres. 2020, 125(4), p. 1-23.</p> <p>doi: 10.1029/2019JD031791</p>
<p>Suárez Molina, David; Fernández-González, Sergio; Suárez González, Juan Carlos; Oliver, Albert</p>	<p>Analysis of sounding derived parameters and application to severe weather events in the Canary Islands</p>	<p>Atmospheric Research. 2020, 237, p. 1-12</p> <p>doi: 10.1016/j.atmosres.2020.104865</p>
<p>Milford, Celia; Cuevas Agulló, Emilio; Marrero, Carlos; Bustos, Juan José de; Gallo, Víctor; Rodríguez González, Sergio; Romero Campos, Pedro Miguel; Torres, C.</p>	<p>Impacts of desert dust outbreaks on air quality in urban areas</p>	<p>Atmosphere. 2020, 11(1), 23.</p> <p>doi: 10.3390/atmos11010023</p>