

Influence of Subtropical Anticyclones on Monitoring the Group of Latin America and the Caribbean Region

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Of the existing nuclear reactors in the world, the region of the Group of Latin America and the Caribbean (GRULAC) currently has a total of six nuclear power plants operated by Argentina, Brazil and Mexico and 16 research reactors being operated by Argentina, Brazil, Chile, Colombia, Jamaica, Mexico and Peru. Using the RNToolkit web software that allows quick access to data from the International Monitoring System network, this work aims to evaluate the detections of stations ARP01, ARP 03, BRP11, CLP19, ECP24, RN31 and PAP50 to monitor the behavior of radionuclides detected in the region of GRULAC, influenced by the meteorological conditions of the region where different wind regimes are established, including the subtropical anticyclones of the South Atlantic and South Pacific, the low level jets to the west and east of the Andes and the trade winds. The evaluation period was from 2019 to 2021, with reference to the month of April, the beginning of the lockdown in the GRULAC region.

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Promotional text

This is an unprecedented work using existing stations in the GRULAC region.

Oral preference format

in-person

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