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## and global modeling of the Buenos Aires IMS station ARX01

The International Monitoring System (IMS) station ARX01 in Buenos Aires, Argentina, presents a unique case within the IMS network due to its close proximity, approximately 30 km, to a medical isotope production facility (MIPF). This upcoming station will be equipped with a next-generation noble gas detection system, highlighting the necessity to comprehend the MIPF's potential impact on the station's readings. Standard global atmospheric modeling may not be sufficient for such close distances, emphasizing the need for regional modeling for accuracy. In this work, both regional and global models are applied to ARX01 to determine the impact. This scenario presents a unique scientific opportunity to enhance our understanding and modeling techniques in close proximity environments.

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