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Change Impacts on the International Monitoring System

The International Monitoring System (IMS) is deployed at locations around the world, allowing for potential linkages to other data streams. One example of this is the correlation between radionuclide data and climate phenomena (e.g. monsoons). Due to the varying climate conditions, the IMS is well positioned to investigate potential signatures for climate change indicators through the detection of radionuclides. We have evaluated the correlation of IMS radionuclide data with climate change indicators near the IMS stations. Additionally, as these climate change indicators evolve with time, the impact on the IMS stations could impact future operation. We have evaluated the prediction of multiple climate change models on IMS stations to identify those most impacted by multiple climate change indicators such as flooding and typhoons. In this presentation, we will detail the work performed on correlating radionuclide data with climate change indictors at select IMS stations. Additionally, we will summarize the evaluation of potential climate change impacts to IMS stations.

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