

Change and Global Security Nexus: Prospects for CTBT

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In recent years, the connections between climate change and security have drawn a lot of scholarly attention. Climate change adaptation measures frequently fall short of completely integrating peacebuilding or conflict prevention aims, making already vulnerable communities further impoverished and less able to withstand interconnected climate and security problems. The CTBT, which promotes a ban on nuclear tests, was opened for signature in 1996. The International Monitoring System (IMS) is a significant part of the treaty's verification regime and provides a wealth of data that may be utilized for a range of purposes, including climate change research and catastrophe warning and mitigation. The IMS stations gather signals from a wide range of natural phenomena while continuously searching the world for indicators of nuclear explosions in violation of the CTBT. The information may also be used by institutions and scientists from all 183 CTBTO Member Nations for scientific research on climate change and catastrophe warnings.

To begin with, the paper will explore the correlation between Climate Change and Global Security and will sketch out prospective contributions CTBTO can make to the issue. Furthermore, analysis of prospects for the IMS data for confidence-building measures for the non-signatory states will also be discussed.

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