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The Italian CTBTO Cooperating National Facility (CNF): status of the art

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The Italian National Institute for Oceanography and Experimental Geophysics (*Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS*) in Trieste (Italy) is offering, in agreement with the Italian CTBTO National Authority, its Cludinico (CLUD) seismic station as a Cooperating National Facility (CNF) to the CTBTO. As outlined in Pesaresi and Horn (2015) the additional data from the Italian CNF improve the CTBTO location capabilities in the Europe/Middle East area of about 21%, which might be of interest given the actual situation in Iran that breached the nuclear Joint Comprehensive Plan of Action (JCPOA) (Reuters, 2019).

In this presentation, we will illustrate the technical details of the solutions adopted to incorporate the Italian CNF into the CTBTO International Monitoring System (IMS): evaluation of CTBTO certification readiness, CTBTO Standard Station Interface (SSI) hardware and software procurement, test and installation, UPS upgrade, implementation and test of CTBTO communication, security measures.

Reference:

Pesaresi, D., and Horn, N.: Improving CTBTO monitoring capabilities: the Italian proposal for a CNF, CTBT Science and Technology 2015, Vienna, Austria, 22-26 June 2015, T4.1-P31, doi:10.13140/RG.2.1.2862.1927, 2015.

Reuters: "Iran further breaches nuclear deal, says it can exceed 20% enrichment", <https://www.reuters.com/article/us-iran-nuclear-idUSKCN1VS05B>, last access: 14 January 2020, 2019.

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