



Experiences with TRIDEC's Crisis Management Demonstrator in the Turkish NEAMWave12 exercise tsunami scenario

Martin Hammitzsch (1), Ocal Necmioglu (2), Matthias Lendholt (1), Sven Reißland (1), Jana Schulz (1), Dogan Aksari (2), Aysegul Koseoglu (2), Ceren Ozer (2), Mustafa Comoglu (2), Nurcan Meral Ozel (2), and Joachim Wächter (1)

(1) GFZ German Research Centre for Geosciences, CeGIT Centre for GeoInformation Technology, Potsdam, Germany, (2) KOERI - Kandilli Observatory and Earthquake Research Institute, Bogazici University, Istanbul, Turkey

On November 27-28, 2012, the Kandilli Observatory and Earthquake Research Institute (KOERI) joined other countries in the North-eastern Atlantic, the Mediterranean and Connected Seas (NEAM) region as participants in an international tsunami response exercise. The exercise, titled NEAMWave12, simulated widespread Tsunami Watch situations throughout the NEAM region. It is the first international exercise as such, in this region, where the UNESCO-IOC ICG/NEAMTWS tsunami warning chain has been tested to a full scale for the first time with different systems. One of the systems is developed in the project Collaborative, Complex, and Critical Decision-Support in Evolving Crises (TRIDEC) and has been validated in this exercise among others by KOERI.

KOERI, representing the Tsunami National Contact (TNC) and Tsunami Warning Focal Point (TWFP) for Turkey, is one of the key partners in TRIDEC. KOERI is responsible for the operation of a National Tsunami Warning Centre (NTWC) for Turkey and establishes candidate Tsunami Watch Provider (TWP) responsibilities for the Eastern Mediterranean, Aegean, Marmara and Black Seas. Based on this profound experience KOERI is contributing valuable requirements to the overall TRIDEC system and is responsible for the definition and development of feasible tsunami-related scenarios in the context of UNESCO-IOC ICG/NEAMTWS activities. However, KOERI's, most important input focuses on testing and evaluating the TRIDEC system according to specified evaluation and validation criteria in order to meet ICG/NEAMTWS requirements.

The TRIDEC system will be implemented in three phases, each with a demonstrator. Successively, the demonstrators are addressing related challenges. The first and second phase system demonstrator, deployed at KOERI's crisis management room has been designed and implemented, firstly, to support plausible scenarios for the Turkish NTWC to demonstrate the treatment of simulated tsunami threats with an essential subset of a NTWC. Secondly, the feasibility and the potentials of the implemented approach are demonstrated covering ICG/NEAMTWS standard operations as well as tsunami detection and alerting functions beyond ICG/NEAMTWS requirements. The demonstrator presented addresses information management and decision-support processes for a hypothetical tsunami-related crisis situation in the context of the ICG/NEAMTWS NEAMWave12 exercise. Experiences and results gained with the TRIDEC system during the exercise will be reported.