

KOERI TSP/NTWC TÜRKİYE
Report for 19th Session of the ICG/NEAMTWS
27-29 November 2024

Kandilli Observatory and Earthquake Research Institute's (KOERI) Regional Earthquake and Tsunami Monitoring Center (RETMC), as the NTWC for Turkey, is an ICG/NEAMTWS accredited 24/7 operational TSP and continues to issue tsunami bulletins for earthquakes with $M_w \geq 5.5$ occurred within 30°N - 48°N / 19°E - 44°E , excluding Gulf of Corinth. There hasn't been any change in Decision Matrix and the Decision Flow Chart of the TSP-KOERI.

RETMC operates a seismic network including 299 sensors (163 velocity, 136 accelerometer) that comprises broadband (BB), accelerometer (SM) and short-period (SP) seismometers. Sensor numbers exceeds 400 when including other national and international institutes' sensors around the Mediterranean Region and shared by bilateral agreements KOERI monitors 44 sea level stations operated by Türkiye (GDM & KOERI). Bilateral agreements on seismic and sea level data exchange with Member State countries continue. KOERI focuses on keeping the average data availability performance of its seismic and sea level network above 90% approximately throughout the inter-sessional period.

At the national level, 20 tide-gauge stations operated by the General Directorate of Mapping (GDM) are integrated in the TSP-KOERI operations. 20 new multi-operational tsunami early warning and sea level monitoring stations were installed recently in the Marmara Sea by KOERI, in the frame of the Provincial Risk Reduction Plan of İstanbul (İRAP). Now KOERI operates a sea level network of 24 stations in Marmara Sea. Four IDSL stations donated by EC-JRC were not in operation for a long time. These IDSL stations are closed. 10 new multi-operational tsunami early warning and sea level monitoring stations will be installed in the Black Sea and Aegean Sea in 2025. Previous IDSL station locations will be covered with these new installations.

During 2024, KOERI continued to disseminate enhanced products (Travel Time, Tsunami Forecast Point Alert Levels, and Distance Based Alert Level Maps) to its subscribers. KOERI disseminated 46 (9 Watch, 16 Advisory, 31 Information) tsunami messages as off 01 July 2012. Since ICG/NEAMTWS-XVIII, KOERI has issued one tsunami message to its subscribers. A summary table of the event is presented below.

DATE	TIME	LOCATION	LATTITUDE	LONGITUDE	DEPTH	MAGNITUDE	ALERT LEVEL
29.03.2024	07:12	Southern Greece	37.32	21.18	20	5.8 Mwp	INFORMATION

Duty officers of the KOERI-RETMC continued to perform internal tests of the Tsunami Warning System on a daily basis at each shift, using TsuComp (an improved version of the FP-7 Project ASTARTE deliverable), on a pre-determined set of scenarios. In addition, KOERI continued to perform Communication Test Exercises with AFAD (Turkish CPA) and its subscribers every Monday and Tuesday of every first full week of each month, respectively. All activities were subjected to continuous-regular internal performance monitoring procedures.

Dr. Musavver Didem Cambaz (KOERI) and Prof. Dr. Ahmet Cevdet Yalçiner (METU) presented the tsunami preparedness and awareness activities conducted in the pilot district of Büyükçekmece (İstanbul), Türkiye, during the CoastWAVE project meeting in Paris France on 5th February 2024 and informed that the application for the UNESCO Tsunami Ready Recognition Programme (TRRP) submitted for Büyükçekmece to the IOC-UNESCO ICG/NEAMTWS Technical Secretariat. After the evaluation of the submission Büyükçekmece received the recognition with the certification ceremony in İstanbul on March 15, 2023. This marked Büyükçekmece/Türkiye as the first community to apply within the CoastWAVE project framework.

The Tsunami Resilience Section satellite event at the 2024 Ocean Decade Conference was held in Barcelona on 11 April on Coastal Cities and Communities Joining Tsunami Ready. KOERI (NTWC/TSP Türkiye) and Emergency Management Presidency AFAD (CPA Türkiye) were invited to attend the event to provide information about the experiences, best practices and collaborations carried out in Büyükçekmece (İstanbul), which is recognized as the first Tsunami Ready community of Türkiye and second in Europe, on March 15, 2023. A total of 13 distinguished experts and decision-makers from around the world shared their expertise and experience in increasing the resilience of communities to ocean hazards.

On the United Nations' (UN) World Tsunami Awareness Day, November 5, a workshop on Tsunami Early Warning Standard Operating Procedures was organized by Boğaziçi University Kandilli Observatory and Earthquake Research Institute (KRDAE) to enhance the resilience of coastal municipalities along the Marmara Sea to tsunami hazards. The workshop, attended by İstanbul Metropolitan Municipality (İBB), AFAD İstanbul, İstanbul's coastal municipalities, universities, and the Turkish Amateur Radio Association (TRAC), focused on current developments. It aimed to develop and improve operational procedures to be followed after tsunami early warning messages issued by KRDAE reach district municipalities.

The Global Tsunami Model Association was founded on September 26, 2024, in Rome, Italy, with KOERI serving as a founding member. The COASTWAVE project has concluded, and the follow-up project, COASTWAVE PHASE II, is set to commence. Similarly, the ARISTOTLE3 project has ended, and its continuation, ARISTOTLE4, has now begun. KOERI will continue its involvement in these projects. 3rd World Conference on Meteotsunamis was organized on 13-17 October 2024 by METU in collaboration with KOERI by the partial support of UNESCO IOC.

According to the recent administrative changes at the institute, Prof. Dr. Nurcan Meral Özel was assigned as the Director of KOERI and the Manager of the RETMC.

We would like to kindly remind the transition of Bogazici University e-mail extension from @boun.edu.tr to **@bogazici.edu.tr** in order to hinder any possible communication failure.

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IOC/UNESCO ICG/NEAMTWS TNC for TÜRKİYE
21 November 2024